



*Business Support on Your Doorstep*

# Ecobusiness cooperation event

Brokerage event at  
Ecomondo International Trade Fair  
4-5 November 2010  
Rimini - Italy

network  
enterprise europe

**Ecobusiness  
cooperation  
event**



ITALIAN CATALOGUE

# **“ ECOBUSINESS COOPERATION EVENT ”**

**4<sup>th</sup> - 5<sup>th</sup> November 2010, Rimini**

**Ecomondo Fair**

**Catalogue of Technology and Business Opportunities**

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## Introduction

“Ecobusiness cooperation event” offers companies, universities and research institutes the opportunity to meet potential partners in pre-arranged face-to-face meetings in order to develop business co-operations and technological partnerships in the following thematic areas:

- Water cycle
- Air quality
- Waste to energy
- Renewable Energy
- Energy efficiency in buildings
- Sustainable mobility



The brokerage event, organized in the framework of Enterprise Europe Network activities, represents a good opportunity to boost international business contacts and partnership agreements.

Unioncamere Emilia-Romagna and the Chamber of commerce of Ravenna - Eurosportello, partner of SIMPLER consortium, are the main organizers of the event which is supported by the Sector Group Intelligent Energy.

Ecobusiness Cooperation Event 2010 is realized within the 14<sup>th</sup> edition of ECOMONDO - International trade fair of Material and Energy Recovery and Sustainable Development. ECOMONDO is the Italian biggest expo of green technologies, a special forum to discuss new models of economic growth driven by a focus on innovation, clean technologies and a new approach to urbanization and social contexts.

At the first edition of Ecobusiness Cooperation Event 2009 took part 150 companies which were involved in more than 500 bilateral meetings.

The following catalogue contains the profiles of the foreign participants who requested or offered innovative technologies or business cooperation. The catalogue is an interesting portrait of the competencies developed by the companies operating in the European environmental and sustainability sectors and abroad.



The Sector Group Intelligent Energy is a platform in the field of renewable energies and energy efficiency inside the Enterprise Europe Network. By integrating the individual members' personal contacts to SME clients, research institutes and cluster initiatives, the group will act as a catalyst for companies in their internationalization process. The member offers their clients the necessary guidance, contacts and information in order to find European business and technology partners to achieve successful technology transfer co-operation, reach partnership agreements and perform European research project.



Enterprise Europe Network is a part of the EU's Competitiveness and Innovation Framework Programme (CIP) and it offers support and advice to businesses across Europe and helps them make the most of the opportunities in the European Union. The services are specifically designed for small and medium enterprises (SMEs) but are also available to all businesses, research centres and Universities across Europe. The Enterprise Europe Network is made up of close to 600 partner organizations in more than 45 countries, promoting competitiveness and innovation at the local level in Europe and beyond.

**Find out more:** <http://www.enterprise-europe-network.ec.europa.eu>



In the framework of Enterprise Europe Network, **SIMPLER** - Support Services to **IMP**rove innovation and competitiveness of businesses in **Lombardia** and **Emilia-Romagna** - is the interregional consortium that offers support and advice to the SMEs. The partners of Simpler Consortium are: Unioncamere Emilia-Romagna, Chamber of commerce of Ravenna - Eurosportello, Aster, Alintec, Cestec spa, Chamber of commerce of Milan and Fast.

**Find out more:** <http://www.simplernet.it>



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*founded in 1916*

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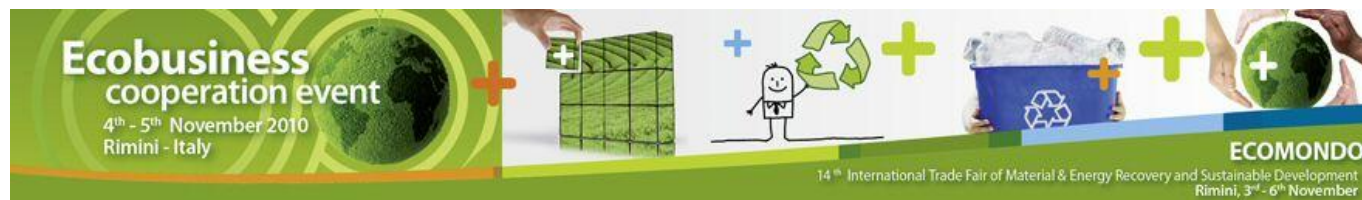
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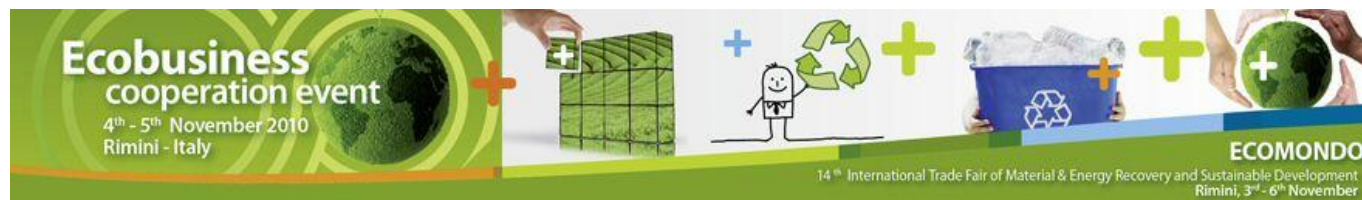




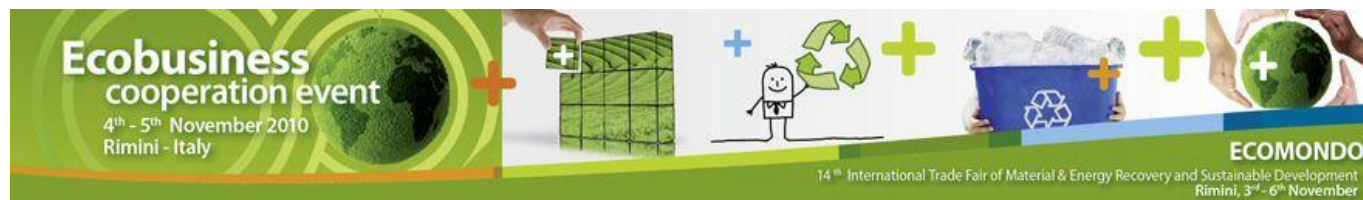
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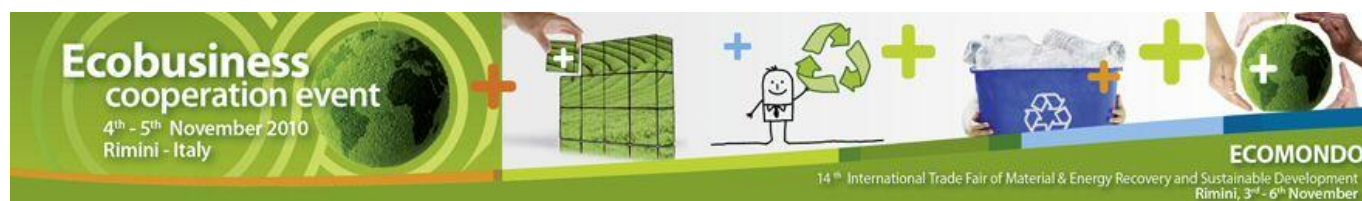


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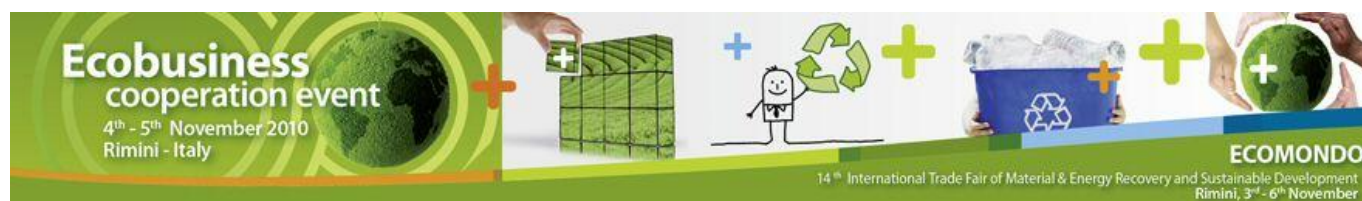


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<b>Manufacturing</b> development of innovative technologies in the green economy, through the application of new materials to bioremediation	<i>Page: 255</i>
<b>IDROPAN DELL'ORTO DEPURATORI SRL</b>	<b>Italy</b>
<b>Distribution</b> collaboration, distribution and/or retail in your country of PLIMMER technology (CDI)	<i>Page: 257</i>
<b>Idrostudi Srl</b>	<b>Italy</b>
<b>Consulting</b> Find out partners to develop new projects	<i>Page: 259</i>
<b>IDROTECH Srl</b>	<b>Italy</b>
<b>Manufacturing</b> Supplying complete and customized fogging solutions to manufacturers or distributors (not final customers). Our mission is one customer one market.	<i>Page: 261</i>
<b>Imper. c.a.r.</b>	<b>Italy</b>
<b>Export</b> Seeking partners to accept asbestos waste.	<i>Page: 263</i>
<b>InGem s.r.l</b>	<b>Italy</b>
<b>Services</b> Research and development of innovative solutions to engineering related emergency	<i>Page: 265</i>
<b>Innoind</b>	<b>Italy</b>
<b>Distribution</b> Local Electrical Logistic System - LELS	<i>Page: 267</i>
<b>Other</b> Docks wind mills	
<b>INNOVA Consorzio per l'Informatica e la Telematica s.r.l.</b>	<b>Italy</b>
<b>Services</b> Intelligent Waste Collection and Transport Solutions	<i>Page: 269</i>
<b>Intellienergia Srl</b>	<b>Italy</b>
<b>Services</b> Renewable energy production plant	<i>Page: 271</i>
<b>INTERMEK SRL -INTERWIND</b>	<b>Italy</b>
<b>Manufacturing</b> THE COMPANY IS LOOKING FOR A PARTNER FOR DEVELOPPING EOLIC TURBINE	<i>Page: 273</i>
<b>In-TIME Srl</b>	<b>Italy</b>
<b>Services</b> Economic optimization of urban waste management	<i>Page: 274</i>
<b>Services</b> Urban Waste Management Support System UWMSS	
<b>INTINI ENERGIA &amp; INTINI SOURCE</b>	<b>Italy</b>
<b>Supplier</b> Renewable energy plants & greenfield facilities	<i>Page: 278</i>
<b>Services</b> Solid waste management & water treatment	
<b>IRIS-MEC SRL</b>	<b>Italy</b>
<b>Distribution</b> Looking for distributors or agents	<i>Page: 280</i>
<b>ISOLANA SYSTEMS SRL</b>	<b>Italy</b>
<b>Supplier</b> Looking for distributors and technical/technological partners mainly in Germany, France, Spain	<i>Page: 281</i>
<b>Istituto Tecnico Statale Nautico Aeronautico CARNARO - Brindisi</b>	<b>Italy</b>
<b>Research</b> Energy from small sea waves	<i>Page: 283</i>





<b>ITALGRIGLIATI Spa</b>	<b>Italy</b>
<b>Manufacturing</b> Production of grates and fences.	<i>Page: 286</i>
<b>ITALPROGETTI engineering SpA</b>	<b>Italy</b>
<b>Supplier</b> Solution for water treatment in our core expertise areas	<i>Page: 287</i>
<b>Export</b> Find agents and distributor in free areas	
<b>Klyma srl</b>	<b>Italy</b>
<b>Research</b> We are looking for partners interested to cooperate in our field for consultancy and or manufacture thermo chemical and biological systems	<i>Page: 289</i>
<b>Labiotech SRL</b>	<b>Italy</b>
<b>Distribution</b> We currently looking for improve our sales netwok in different Countries, where we are already present and hopefully new ones.	<i>Page: 291</i>
<b>LADURNER AMBIENTE SPA</b>	<b>Italy</b>
<b>Services</b> Offers services for waste treatment, production of renewable energy from liquid and solid waste and from agricultural biomass	<i>Page: 294</i>
<b>L.A.V. S.r.l.</b>	<b>Italy</b>
	<i>Page: 296</i>
<b>LEnviroS srl</b>	<b>Italy</b>
<b>Services</b> Evaluation in olfactive impact of industrial plants and technologies for odor abatement	<i>Page: 297</i>
<b>Luce di Pagnutti Bruna</b>	<b>Italy</b>
<b>Manufacturing</b> cooperation business lighting and renewable energy	<i>Page: 300</i>
<b>LYMPHA s.r.l.</b>	<b>Italy</b>
<b>Services</b> Distribution : need to develop external business relationships/Investment - need to contact investors focused on start up innovative companies	<i>Page: 301</i>
<b>M.M. SR</b>	<b>Italy</b>
<b>Distribution</b> We would like to meet people who want to sell our products in their country.	<i>Page: 303</i>
<b>Ma.E.L. ENERGIA</b>	<b>Italy</b>
<b>Consulting</b> Cooperation on 'renewable energy	<i>Page: 305</i>
<b>MANAGEMENT INNOVATION srl</b>	<b>Italy</b>
<b>Consulting</b> Frascati	<i>Page: 306</i>
<b>MARCOLIN COVERING SRL</b>	<b>Italy</b>
<b>Export</b> THE COMPANY IS LOOKING FOR TRADE AGREEMENTS FOR DISTRIBUTION OF COVERINGS FOR SKIPS, CONTAINER AND SHEET OF PROTECTION OF WASTE STOCKING BASINS AND S	<i>Page: 308</i>
<b>MEDIASOFT SISTEMI</b>	<b>Italy</b>
<b>Distribution</b> remote control of sewage treatment plants	<i>Page: 309</i>
<b>MEEO S.r.l</b>	<b>Italy</b>
<b>Services</b> Environmental Monitoring Solutions: air quality, soil classification and temporal analisys, biofuel crops, climate change	<i>Page: 310</i>

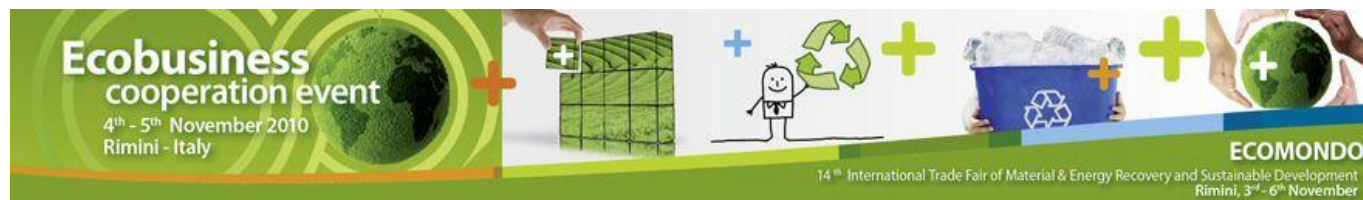


## Supplier Information and Communication Technology (ICT) services

<b>MENDIZZA SRL</b>	<b>Italy</b>
<b>Distribution</b> we are looking for importers or agents	<i>Page: 313</i>
<b>Menorifiuti Srl</b>	<b>Italy</b>
<b>Services</b> Cooperate to increase levels of recycling through innovative strategies and technologies. We project waste solutions as for collection services, comm	<i>Page: 316</i>
<b>Monachino Technology</b>	<b>Italy</b>
<b>Manufacturing</b> Precast mini-plant with both standard and bi-functional photovoltaic panels	<i>Page: 319</i>
<b>Manufacturing</b> Eco-recycler and manufacturer of filler - Patent transfer agreement and technical co-operation	
<b>N.C.S. nanocoating systems</b>	<b>Italy</b>
<b>Supplier</b> OFFER OF PROTECTIVE COATINGS BASED ON NANO-MATERIALS	<i>Page: 322</i>
<b>Distribution</b> ALGAE DECOMPOSITION KET TECHNOLOGY	
<b>NC Design</b>	<b>Italy</b>
<b>Consulting</b> To find partners to which offer our services	<i>Page: 324</i>
<b>NESTAMBIENTE S.R.L. GRUPPO ACEGAS-APS</b>	<b>Italy</b>
<b>Services</b> Looking for new European partners for the recovery/disposal of special waste	<i>Page: 326</i>
<b>NEW CONTACT SRL</b>	<b>Italy</b>
<b>Consulting</b> Looking for commercial agreements	<i>Page: 327</i>
<b>Newster Srl</b>	<b>Italy</b>
<b>Distribution</b> We are looking for a well structured company for the distribution of our technology on his territory which is possibly well connected to various heat	<i>Page: 328</i>
<b>Nex srl</b>	<b>Italy</b>
<b>Consulting</b> High- and low-technology health center implemented according to eco-compatibility and using alternative or renewable energy sources.	<i>Page: 330</i>
<b>NGB Genetics</b>	<b>Italy</b>
<b>Services</b> Species Identification kits based on molecular markers and software platform for Wildlife management	<i>Page: 332</i>
<b>Nial Nizzoli srl</b>	<b>Italy</b>
<b>Services</b> Technical cooperation to improve the recovery of materials from waste and carry out complex projects for renewable energy production	<i>Page: 333</i>
<b>O.C.M. s.r.l</b>	<b>Italy</b>
<b>Distribution</b> Waste water equipment and treatment	<i>Page: 335</i>
<b>Officine di Trevi</b>	<b>Italy</b>
<b>Manufacturing</b> Research of future potential partners	<i>Page: 336</i>
<b>OFFICINE MECCANICHE PARENTI SRL</b>	<b>Italy</b>
<b>Manufacturing</b> COOPERATE WITH COMPANIES IN ORDER TO CARRY OUT INNOVATIVE PROJECTS	<i>Page: 338</i>



<b>OROGEL Soc. Coop. Agricola</b>	<b>Italy</b>
<b>Distribution</b> Technological innovations to enhance waste and by-products	<i>Page: 339</i>
<b>Distribution</b>	
<b>P.A.N Piante Acqua Natura srl</b>	<b>Italy</b>
<b>Services</b> P.A.N. work in wastewater treatment with constructed wetland especially floating wetland. offers and requests Technical co-operation and requests also	<i>Page: 341</i>
<b>PA Service srl</b>	<b>Italy</b>
<b>Export</b> We are looking for disposal and recycling facilities in foreign countries	<i>Page: 343</i>
<b>Pala Innovazioni</b>	<b>Italy</b>
<b>Investment</b> Vehicular exhaust gases purification system.	<i>Page: 345</i>
<b>Other</b> Compressor + Turbine + Alternator” to convert combined wind/solar energy into electrical energy.	
<b>PELLICANO VERDE S.p.A.</b>	<b>Italy</b>
<b>Services</b> Bonifiche e commercializzazioni rifiuti	<i>Page: 348</i>
<b>Planiplastic Ecologia Srl</b>	<b>Italy</b>
<b>Export</b> Exporting our products	<i>Page: 349</i>
<b>politecnico di torino</b>	<b>Italy</b>
<b>Research</b> co-operation with enterprises and SME for developing european projects/for acting as subcontractors	<i>Page: 351</i>
<b>Pollution srl</b>	<b>Italy</b>
<b>Manufacturing</b> Manufacturer and dealer of portable monitoring instruments for air quality gas control and water analysis	<i>Page: 353</i>
<b>Portamivia by Imeca Srl</b>	<b>Italy</b>
<b>Export</b> Ecological interior doors and do-it-yourself doors manufacturer. From forest to town responsibly.	<i>Page: 354</i>
<b>Import</b> Certified wood suppliers seeking, blockboard, finger-joint, plywood, MDF, veneer	
<b>POVELATO SRL</b>	<b>Italy</b>
<b>Manufacturing</b> Manufactures blades for granulators, grinders, shredders, crushers, knives for industry	<i>Page: 356</i>
<b>Primis srl</b>	<b>Italy</b>
<b>Import</b> Import – Opening new commercial trading abroad to our services in the field of explosives disposal	<i>Page: 357</i>
<b>ProAcqua Group Srl</b>	<b>Italy</b>
<b>Manufacturing</b> we are looking for distributor of VonTaine City that's a new GREEN Concept of public Fountain	<i>Page: 358</i>
<b>Supplier</b> vonTaine City - The new public fountain	
<b>Proclisis Srl</b>	<b>Italy</b>
<b>Services</b> Provide tools to monitoring and managing Energy cost and consumption	<i>Page: 360</i>
<b>PROG.EL. S.N.C.</b>	<b>Italy</b>
<b>Manufacturing</b> New technologies for the production of solar panels	<i>Page: 363</i>



<b>PROGEPITER s.r.l.</b>	<b>Italy</b>
<b>Consulting</b> Implementation of Energy management system for companies or organizations	<i>Page: 365</i>
<b>PROMEKO SpA</b>	<b>Italy</b>
<b>Export</b> to sell PROMEKO's machines and tecnolgies outside italian country	<i>Page: 367</i>
<b>RCM Spa</b>	<b>Italy</b>
<b>Research</b> New technologies and solutions ecosustainable related to the sector of sweepers and scrubber-dryer machines	<i>Page: 369</i>
<b>REGENESI SRL</b>	<b>Italy</b>
<b>Manufacturing</b> Co-Brand Project - Creation of design products made of recycled materials for your internal communication, events/exhibitions and customers	<i>Page: 370</i>
<b>Renew Energy</b>	<b>Italy</b>
<b>Services</b> to sell our services related to the monitoring of energy performance for RES and to activate partnership for R&D on RES	<i>Page: 372</i>
<b>Ribes Ricerche S.r.l.</b>	<b>Italy</b>
<b>Research</b> Optical sensor for CO2 monitoring by means of a nanostructured porous silicon substrate	<i>Page: 374</i>
<b>RISANASARDA RICERCA E SVILUPPO</b>	<b>Italy</b>
<b>Services</b> Offer of Bioremediation of contaminated sites	<i>Page: 376</i>
<b>Rising s.r.l.</b>	<b>Italy</b>
<b>Other</b> I'm searching a pellet heating manufacturer or a company who is interested in new renovable energy willing to commercialize this system in different c	<i>Page: 378</i>
<b>Risorse Solari</b>	<b>Italy</b>
<b>Manufacturing</b> The company is looking for financial partners to start up production, or companies interested in producing the collector with a licence agreement	<i>Page: 379</i>
<b>Romagna Innovazione srl (shortened: RInnova)</b>	<b>Italy</b>
<b>Services</b> Any public or private organizations interested in implementing project in the fields of renewable energy sources, sustainable mobility, energy efficie	<i>Page: 381</i>
<b>Rovatti A. &amp; Figli Pompe S.p.a.</b>	<b>Italy</b>
<b>Supplier</b> We are looking for partners for possible future business.	<i>Page: 384</i>
<b>SA.M.E. srl</b>	<b>Italy</b>
<b>Manufacturing</b> SALE OF REFLECTIVE INSULATION	<i>Page: 386</i>
<b>SA.RO srl</b>	<b>Italy</b>
<b>Distribution</b> SARO is looking for agents, dealers or potential partnerships to grow our international portfolio.	<i>Page: 388</i>
<b>SARTORI AMBIENTE S.R.L.</b>	<b>Italy</b>
<b>Distribution</b> Collaborate with foreign distributors	<i>Page: 391</i>
<b>SCOLARI SRL</b>	<b>Italy</b>
<b>Export</b> Looking for agent aborad	<i>Page: 393</i>



<b>Seneca Srl</b>	<b>Italy</b>
<b>Services</b> looking for companies that provide goods and services	<i>Page: 394</i>
<b>Services</b>	
<b>Sepra S.r.l.</b>	<b>Italy</b>
<b>Supplier</b> Exchange information on membrane based technologies for difficult liquid waste	<i>Page: 397</i>
<b>Serint Group Italia Srl</b>	<b>Italy</b>
<b>Consulting</b> We are interested in developing projects regarding the sustainability and efficiency of energy use, both for private companies, for Local authorities	<i>Page: 399</i>
<b>SERMAN ENERGY Rsl</b>	<b>Italy</b>
<b>Manufacturing</b> Systems and plants for the production of clean and high efficiency energy from hydropower.	<i>Page: 401</i>
<b>SICURAL S.R.L. CONSORTILE</b>	<b>Italy</b>
<b>Research</b> Looking for Farms, Producers Associations, Research Institutes, Universities, Industries searching for or proposing solutions for the recovery of waste	<i>Page: 402</i>
<b>SIMPEC SRL</b>	<b>Italy</b>
<b>Manufacturing</b> We are looking for agents/distributors all over the world in order to improve our sales network. We produce Water and Wastewater treatment plants.	<i>Page: 404</i>
<b>SINERGIA SISTEMI SPA</b>	<b>Italy</b>
<b>Investment</b> ENERGY EFFICIENCY FOR INDUSTRIAL PLANTS AND LOGISTIC PLATFORMS IN ROMANIA	<i>Page: 406</i>
<b>Investment</b> THE PRODUCTION CHAIN OF VEGETABLE OILS TO FUEL TRIGENERATION CENTRALS	
<b>Sintenergy</b>	<b>Italy</b>
<b>Manufacturing</b> Innovative multidirectional turbine	<i>Page: 408</i>
<b>Manufacturing</b> Nautical Micro Turbine for sailing boat	
<b>Sintenergy2</b>	<b>Italy</b>
<b>Manufacturing</b> Pocket Nano turbine	<i>Page: 410</i>
<b>Sis.Ter srl</b>	<b>Italy</b>
<b>Subcontracting</b> Urban digital life: Complexity and usability solution for urban development and city management	<i>Page: 412</i>
<b>Solterra PV Park srl</b>	<b>Italy</b>
<b>Distribution</b> Technology request for biomass cogeneration plant for heat and power generation from wood, wood residuals and agricultural residuals	<i>Page: 413</i>
<b>SORTRON SRL</b>	<b>Italy</b>
<b>Investment</b> Search for a partner interested in experimenting and trading monitoring systems for environment, water and landslides.	<i>Page: 415</i>
<b>Studio Cortesi S.a.s.</b>	<b>Italy</b>
<b>Consulting</b> Consult companies and Projects in assessing the environmental aspects and impacts	<i>Page: 417</i>





<b>STUDIO LEGALE P&amp;S - ECOAVVOCATI // P&amp;S LAW FIRM - Environmental Legal Advisors</b>	<b>Italy</b>
<b>Consulting</b> Environmental legal advisors	<i>Page: 419</i>
<b>Sunvision srl</b>	<b>Italy</b>
<b>Distribution</b> Single-module converter	<i>Page: 422</i>
<b>Manufacturing</b> Integration of the single-module converter in the pv module	
<b>Syntal Italia Srl</b>	<b>Italy</b>
<b>Export</b> looking for companies to establish a partnership to realize new plants and new marketplaces, diffuse our technologies and our products and / or establ	<i>Page: 425</i>
<b>T.E.C.O.F.I.L. srl</b>	<b>Italy</b>
<b>Distribution</b> we look for retailers (waste water purification and filtration plants)	<i>Page: 426</i>
<b>TECNOSEA -Technology and Services of Excellence in Aquaculture</b>	<b>Italy</b>
<b>Consulting</b> The company is looking for manufacturers of equipments for wastewater treatment.	<i>Page: 428</i>
<b>TECO Srl</b>	<b>Italy</b>
<b>Manufacturing</b> Management of inert garbage disposal plants.	<i>Page: 430</i>
<b>Tenax SpA</b>	<b>Italy</b>
<b>Distribution</b> We search for a company with technical background in the design of landfill and commercial activity in the promotion of technical products for landfil	<i>Page: 431</i>
<b>TERNI POLIMERI SPA</b>	<b>Italy</b>
<b>Manufacturing</b> Cooperation with companies that operate in the presswork of plastic to offer them our compounds	<i>Page: 432</i>
<b>Import</b> Cooperation with companies or municipalities that collect wastes. We buy their separated plastic	
<b>TiberLAB Srl</b>	<b>Italy</b>
<b>Services</b> TiberCAD	<i>Page: 434</i>
<b>TIFONE SRL</b>	<b>Italy</b>
<b>Export</b> EXPORT IMPORTER, DISTRIBUTOR	<i>Page: 436</i>
<b>TRIBIANO TRE SRL</b>	<b>Italy</b>
<b>Other</b> We look for buyers or sellers of circuit board, mobile phone, batteries.	<i>Page: 438</i>
<b>UMPI Group</b>	<b>Italy</b>
<b>Distribution</b> Agent or Distributor of products and solutions for the public lighting and building automation	<i>Page: 439</i>
<b>UMPI R&amp;D Srl</b>	<b>Italy</b>
<b>Research</b> Technological and commercial cooperation in green energy management	<i>Page: 440</i>
<b>Import</b> International partner for italian market	
<b>University of Palermo</b>	<b>Italy</b>
<b>Research</b> Natural Panel for thermal insulation realized from "Opuntia Ficus Indica" plant. Cooperation for inclusion in a production cycle is sought.	<i>Page: 442</i>



<b>University of Palermo</b>	<b>Italy</b>
<b>Research</b> Development of new technologies for wind towers	<i>Page: 445</i>
<b>UTILPLASTIC SRL</b>	<b>Italy</b>
<b>Manufacturing</b> cooperation in end product made by recycled raw material	<i>Page: 447</i>
<b>VALVOTUBI IND. S.R.L.</b>	<b>Italy</b>
<b>Manufacturing</b> Searching water treatment plant manufacturer for selling valves	<i>Page: 449</i>
<b>Venturini</b>	<b>Italy</b>
<b>Other</b> Innovative and efficient prefabricated envelope for new and existing buildings.	<i>Page: 451</i>
<b>Voltasolar</b>	<b>Italy</b>
<b>Distribution</b> Looking for production and/or sales partner for our CIGS solar panel	<i>Page: 453</i>
<b>Well Light</b>	<b>Italy</b>
<b>Consulting</b> we're interested to develop innovative projects with and multi-technology.	<i>Page: 454</i>
<b>White srl</b>	<b>Italy</b>
<b>Manufacturing</b> we are looking for companies interested in invested in India	<i>Page: 455</i>
<b>WINDOW ON EUROPE EUROPEAN AGENCY</b>	<b>Italy</b>
<b>Consulting</b> "To make and not to speak"	<i>Page: 457</i>
<b>Xewer</b>	<b>Italy</b>
<b>Other</b> Energy storage with Methane production and Carbon Dioxide segregation	<i>Page: 460</i>



## AGHETERA Srl

Page: 32

Address	San Polo 3022/C 30125 - Venezia	Italy
Phone	0039 041 740956	
Email	vale@aghetera.eu	
www	www.aghetera.com	
Organisation Type	Company	

### Contact Person

Name	<b>Manfredi Vale</b>
Position	Owner

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Request
» Waste treatment - plants and technologies	Technical Co-operation	» Offer/Request
» Waste selection and recycling	Technological Co-operation	» Request
» Biomass, bio-gas	Joint research project	» Offer/Request
» Solar energy	Manufacturing agreement	»
» Wind energy	Commercial agreement	» Offer/Request
» Energy saving and efficiency	Financial agreement	»
» Building materials		
» Other Energy topics		

### Short description of company

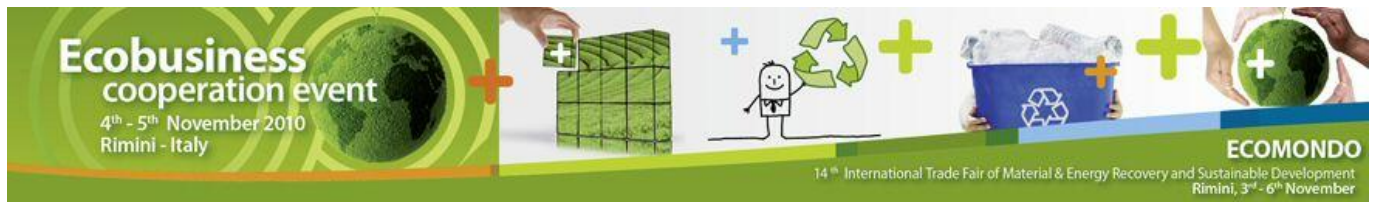
#### ORGANISATION HISTORY/EXPERIENCE:

Members have academic and industrial research background, mainly in the fields of (waste)water and waste management, focusing on integrated approaches (e.g. municipal waste fractions for wastewater co-treatment; sludges and organic fractions co-digestion etc.). There are also strong skills in information & communication technologies (GIS, mathematical modelling, ICT for energy and waste management) through high level partnerships around Europe (e.g. Copenhagen Technical University, Italian Research Council, Milan Technical University etc).

**FIELD OF ACTIVITIES:** This company is specialized in EU funding, providing research, services and consulting in renewable energies and environmental protection, integrated waste management systems, energy management systems, products and processes optimisation systems, energy from waste and biomass management and waste processing and their utilization as secondary raw materials.

#### MAIN PRODUCTS/SERVICES:

LCA tools and methodologies for Integrated Waste Management; (in cooperation with NRC) LCA modelling for wood/furniture and shoes production chains; Industrial Ecology (waste reuse; closing industrial chains; feasibility, sustainability and economic analyses of materials and energy recycling options/scenarios).



## **Research - reserch and development in renewable energy and environmental protection**

### **DETAILED DESCRIPTION:**

LCA of integrated waste management systems, decision support systems for choosing the most economically and environmentally sound and viable waste management technologies and processes; GIS platforms for energy flows analysis, modelling and planning at the Municipal/Urban scale; GIS & mathematical models for natural and water resources management.

### **MAIN ADVANTADGES / BENEFITS:**

Integrated and multi-diciplinary approaches in Environment-related issues and markets; Multi-disciplinary team of specialists; Strong communication and popularisation skills about environmental technologies and policies

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** The company is looking for technological and commercial agreements, particularly in the field of waste and/or green/renewable technologies/plants with high remuneration rates such as energy production, problematic waste treatment-recycling-reuse processes and plants, etc.

## Agricultural Research Council, Swine husbandry Research Unit (CRA-SUI)

Page: 34

Address	via Beccastecca 345 41018 - San Cesario sul Panaro	<b>Italy</b>
Phone	+39 059926268	
Email	rosa.marchetti@entecra.it	
www	http://sito.entecra.it	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Rosa Marchetti</b>
Position	Senior Researcher

Areas of activity	Type of co-operation
» Energy from waste and biomass	Licence agreement »
» Wastes processing and their utilization as secondary raw materials	Technical Co-operation »
	Technological Co-operation » Request
	Joint research project »
	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The Husbandry Experimental Institute of Modena was established in 1925 with the goal of studying different local, national and foreign races of animals for research and selection purposes, and of promoting local and regional animal husbandry. In 1967 it merged with the Husbandry Experimental Institute of Rome. In 2006 it was converted to Swine Husbandry Research Unit, within the framework of the Italian Agricultural Research Council. From its origin up to the '80s it carried out research activities on dairy, beef swine and poultry production as well as on Parmigiano Reggiano production. In the following years research was focused on the Italian heavy pig production. More recently the research topics were extended to animal waste exploitation for agricultural and energy production purposes, as a consequence of new knowledge acquired in the agricultural sector.

#### FIELD OF ACTIVITIES:

The CRA-SUI research activities focus on the relationship between pig nutrition and meat quality for the production of PDO foods, on the environmental impact of livestock, on animal waste utilization for agricultural purposes and energy production, and on organic pig production. In these activities the CRA-SUI collaborates with national and international research groups and with the stakeholder associations.

#### MAIN PRODUCTS/SERVICES:

Increased knowledge of pig production chain issues, with special emphasis on pig rearing methods, nutrition, slaughtering, and waste exploitation





**TECHNOLOGIES:**

The CRA-SUI research unit has two farms, two weather stations and 2 experimental piggeries. The farms are located at San Cesario sul Panaro and at Formigine, in the Modena plain (Low Po valley), where arable crops (winter wheat, barley, maize, sorghum, sugar beet) and alfalfa are grown. The piggeries host 40 farrowing-weaning crates and 600 heavy pig fattening places, with 96 pens for 5 pigs and 12 pens for 12 pigs equipped with an individual pit for sewage collection.

The CRA-SUI research unit hosts a laboratory equipped for analyses on the following materials:

- foods, with special reference to meats (protein content and fat composition);
- feeds and plant tissues ( C, N and P content);
- soils (main physical, chemical and mechanical properties);
- animal manure and slurries (main characterization parameters: total solids, volatile solids, total and ammonium N, P, pH, COD);
- biogas (biomethanation tests) and microbiology of anaerobes

**Subcontracting - Charcoal from biomass**

**DETAILED DESCRIPTION:**

We are searching for a company with knowledge and machinery suitable for transforming organic biomass by means of thermal degradation processes, with emphasis on pirogasification

**MAIN ADVANTADGES / BENEFITS:**

We offer collaboration and funding within the framework of European projects

**Subcontracting - Pellets from biomass**

**DETAILED DESCRIPTION:**

We are searching for a company with knowledge in fertilizer production and machinery suitable for transforming organic biomass in pellets

**MAIN ADVANTADGES / BENEFITS:**

We offer collaboration and funding within the framework of European projects

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

## AGRITECH SRL

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Address	Via Rimembranze, 7 25012 - Calvisano	<b>Italy</b>
Phone	0039-030-9968222	
Email	agritech@agritech.it	
www	www.agritech.it	
Organisation Type	Company	

### Contact Person

Name	<b>Carlo Branchi</b>
Position	Sales Manager

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Treatment and disposal of the resultant sludge	Technical Co-operation »
» Solar energy	Technological Co-operation »
» Wind energy	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: active both in Italy and abroad in the sector of fibreglass processing for agricultural and environmental targets since 1987

FIELD OF ACTIVITIES: manufacturing and installation of fibreglass modular roofs to provide covering systems for wastewater tanks and basins. Supply of solar plants and windmills to produce current

### Manufacturing - research of buyers

DETAILED DESCRIPTION: fibreglass modular roofing systems for wastewater and sludge tanks, basins

MAIN ADVANTADGES / BENEFITS: light-duty product, corrosion free, highly resistant to environmental extremes, long durability, easy installation

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: suppliers of turn-key technology for wastewater treatments.

## AIR CLEAN Srl

Page: 37

Address	Via Ugo Bassi 14 20090 - Trezzano Sul Naviglio	<b>Italy</b>
Phone	0039029311989	
Email	airclean@tin.it	
www	www.aircleansrl.it	
Organisation Type	Company	

### Contact Person

Name	<b>Paolo Caruson</b>
Position	General Manager

Areas of activity	Type of co-operation	
» Treatment of wastewater and water for domestic consumptions	Licence agreement	»
» Cooling and ventilation equipment	Technical Co-operation	» Offer/Request
» Other	Technological Co-operation	» Offer/Request
» Energy from waste and biomass	Joint research project	» Offer/Request
» Biomass, bio-gas	Manufacturing agreement	»
» Pellets	Commercial agreement	» Offer/Request
» Solar energy	Financial agreement	»
» Thermal disposals		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Founded in 1980, Air Clean is a leading company in the design, manufacture and installation of air treatment plants.

Its range of solutions includes equipment for the abatement of fumes (chemical scrubbing, activated carbons, biofiltration) and dusts (bag and cyclone filters, scrubbers) as well as air conditioning systems (manufacture and installation of air conveying pipelines in galvanized and stainless steel).

In the field of biological air pollution control systems, Airclean is exclusive distributor, in Italy and in the Mediterranean Area, of MonaFil biofilters and Monashell bioscrubbers, all patented by the Irish company Bord na Mona.

#### FIELD OF ACTIVITIES:

Airclean designs, produces and installs air treatment plants based on patented biological systems (Monanafil and Monashell - Bord na Mona Env. Technology). Biofilters and bioscrubbers can be used for removing odours (generated by solid waste and waste water treatment plants, food industries, fish meal processing, rendering), solvents (coming from painting and printing plants) and other organic and inorganic compounds generated by industrial and civil activities (produced by chemical industries, plastic production, tanneries, etc.).



**MAIN PRODUCTS/SERVICES:**

Air Biofiltration systems for odour and Voc abatement

**TECHNOLOGIES:**

The biological technologies MONAFIL, MONASHELL and MONASHELL ENHANCED BIOFILTRATION are all systems BORD NA MONA ENVIROMENTAL; they are also all covered by international patent and they can be efficaciously used for the treatment of the atmospherical emissions caused by civil and industrial productions. The technologies for the air biofiltration, which provide the use of bioscrubber, are all applicable to pull down the odours substances (system for the treatment of waste products, system for the treatment of flowing back waters, system for the food industries), the solvents (whirling room) and all the organic compounds (chemical industries and plastic production).

**Distribution - Technical co-opreation (tecnical, commercial) for high tech air treatment systems**

**DETAILED DESCRIPTION:**

The principle of biofiltration working consists in odours metabolishing by bacteria that find their ideal life condition on material of organic origin.

We can generally affirm that the bed isn't the filtering element, but more precisely it serves for a life support of bacterial flora. It's executed using granular peat (Monafil system) or special treated shells (Monashell system) produced using patented processes in Bord Na Mona Irish Company specialised laboratories.

**MAIN ADVANTADGES / BENEFITS:**

Unlike the traditional system, in particular the washing towers (physics chemical system) the biofiltration doesn't need:

- Control instruments;
- Chemical reagents;
- Stocking tanks;
- Dosage pumps, valves and so on;
- Skilled personnel.

Consequently this innovator purification system doesn't almost need maintenance, with a considerable saving in operating costs.

The offered technologies allow the creation of smaller plants than those created with "conventional" biofiltration systems.

The biofiltration permits to obtain the following abatement results:

- Organic compounds 98,9%
- Nitrogenous Compounds 97,9%
- Aldehydes 92-99,8%
- Inorganic Acids 99,9%
- Mercaptans 92-95%
- Hydrogen Sulphide 98-100%
- Ammonia 92-95%
- Other included components 91-99,8%

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Each technology presents specific innovative characteristics:

MÓNAFIL: the innovative aspects are: the properties of the support media and the metabolic capabilities of the



micro-organisms. In particular, the properties of the media have proven to be a key factor, in terms of capture of chemical pollutants and providing optimum conditions for biological oxidation.

**MÓNASHELL:** The shells contain a high level of CaCO<sub>3</sub>, which neutralises acid as it is produced through the action of bacterial oxidation. The bacteria type is selected for its ability to degrade high levels of H<sub>2</sub>S and show optimum performance at pH 7. The process is further enhanced by the physical, structural, and chemical properties of the media, which allow for the use of smaller filters, with high efficiency and improved elimination capacities.

**MÓNASHELL Enhanced Biofiltration (EBf):**

- electromagnetic stimulation of water: the stimulation of water regulates and controls the production of extra-cellular polysaccharides by microbes, and leads to a higher catabolic breakdown conversion of VOCs, with most of the energy released as heat.
- Re-circulation of air stream: this dynamic contributes to pre-dilution of the inlet contaminants and acceleration of mass transfer, resulting in increased efficiency (typically from 50-90%), and increasing elimination capacity (typically by factor of 4).

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Industries, engineering companies , consulting companies (public or private), MTB manufactures, sludge drying manufactures



## AIRPROTECH SRL

Page: 40

Address	VIALE LOMBARDIA 33 20013 - MAGENTA	<b>Italy</b>
Phone	+39 02 9790466	
Email	info@airprotech.eu	
www	www.airprotech.eu	
Organisation Type	Company	

### Contact Person

Name	<b>LAURO GATTI</b>
Position	SALES DIRECTOR

Areas of activity	Type of co-operation
» Other	Licence agreement » Technical Co-operation » Technological Co-operation » Joint research project » Manufacturing agreement » Commercial agreement » Request Financial agreement »

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: AIRPROTECH PLANS MANUFACTURES AND SUPPLIES READY-TO-USE AIR CLEANING PLANTS FOR POLLUTANTS GAS EMISSION FROM ALL INDUSTRIAL PROCESSES AND DEVELOPS - ON ENGINEERING GROUND - THE MOST SUITABLE SOLUTION ACCORDING TO CUSTOMERS REQUIREMENTS. AIRPROTECH OFFERS A WIDE RANGE OF CLEANING PLANTS APPLYING TO TECHNOLOGIES THAT CAN BE ALTERNATIVE BETWEEN THEM.

MAIN PRODUCTS/SERVICES: RECUPERATIVE THERMAL OXIDISERS, WITH TWO OR THREE CHAMBERS ALSO FOR HALOGENATED VOC. CATALYTIC OXIDISERS, ROTOR CONCENTRATORS ADSORPTION AND ABSORPTION OF SOV AND SIV, DENOX, DESOX, FLARES, DRY AND WET DUST EXHAUST SYSTEMS, CRYOGENIC.

TECHNOLOGIES: COMBUSTION, INCINERATION, ADSORPTION, ABSORPTION, DENOX, DESOX, HEAT RECOVERY SYSTEM, CRYOGENIC.

### Distribution - PROMOTE THE SALE OF OUR AIR CLEANING PLANTS

DETAILED DESCRIPTION: to promote and sell our air cleaning plants worldwide

MAIN ADVANTADGES / BENEFITS: EU LAW OBLIGES THE INSTALLATION OF CLEANING PLANTS

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): partner should well know all problems related to the pollutant gaseous emissions; they have to operate in fields related to the air cleaning one: possible partners are boiler producers. The partner should promote and sell our products.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: ENGINEERING COMPANIES, BURNER PRODUCERS .



## AKOMAG s.r.l.

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Address	Frazione Diolo 15/D 43019 - SORAGNA	Italy
Phone	+39-0524-599097	
Email	info@akomag.com	
www	www.akomag.com	
Organisation Type	Company	

### Contact Person

Name	<b>Marco Triulzi</b>
Position	managing director

Areas of activity	Type of co-operation
» Waste selection and recycling	Licence agreement »
» Wastes processing and their utilization as secondary raw materials	Technical Co-operation » Request
» Other Energy topics	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

We wish to introduce ourselves as a reality active in project and production of bottling plant machinery and more in details bottle-washing machines, rinse-machines, sterilisation units and case-washers.

Our Company, with a long experience gained on the field, aims to meet the needs of all those who are looking for high quality products at a competitive price. This is going to be the philosophy of our Company.

We have a staff of more than 20 people, a covered manufacturing area of more than 2000 square meters and we can count on a tight long-lasting collaboration with outside companies producers of ancillary components.

Our short term and principal objective is to widen the organisational structure of our company so as to match the sharp demand of the market and the increased number of orders.

#### FIELD OF ACTIVITIES:

Thanks to the proven experience developed in this field we feel capable of manufacturing machinery suitable for all end-users active in wine, mineral waters, liqueurs, beers, fruit juices and beverage production, for milk and oil and other containers, both in glass and in recycled PET.

#### MAIN PRODUCTS/SERVICES:

Bottle washer machine for glass and PET recycling bottles.  
Crate washer machine.



### **Manufacturing - Save energy and material recycling.**

#### **DETAILED DESCRIPTION:**

Our factory it is specialize in bottle washer machine. This machine could be install in all beverage plant or as independent machine in a factory to washing and recycling.

#### **MAIN ADVANTADGES / BENEFITS:**

Recycling glass bottles or container and saving energy.

#### **TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

#### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Beverage industry, recycling industry, importer or agent.

**Akse s.r.l - società a responsabilità limitata**

Page: **43**

Address	Via Aldo Moro, 39 42124 - Reggio Emilia	<b>Italy</b>
Phone	+39 0522 924244	
Email	export@electrex.it	
www	www.electrex.it	
Organisation Type	Company	

<b>Contact Person</b>	
Name	<b>Skender Musaj</b>
Position	Export Sales Mngr.

<b>Areas of activity</b>	<b>Type of co-operation</b>	
» Saving water in intensive industrial manufacturing	Licence agreement	»
» Cooling and ventilation equipment	Technical Co-operation	»
» Sustainable mobility electric vehicles	Technological Co-operation	»
» Energy from waste and biomass	Joint research project	»
» Solar energy	Manufacturing agreement	»
» Wind energy	Commercial agreement	» Offer
» Water energy	Financial agreement	»
» Energy saving and efficiency		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

<b>Short description of company</b>
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b>            Electrex is a trademark of Akse srl. Since 1993 Electrex designs, produces and commercializes, in Italy and abroad, instruments and software for energy measurement, energy saving, consumption and production managing. The Electrex solutions are used in the energy efficiency and energy automation applications, for the industrial, tertiary, residential and renewable resources sectors allowing a rapid return on investment. Electrex, one of the first companies to operate in these sectors, has acquired over the years a considerable experience and competence that few other companies can claim to have. With over 40% of the staff dedicated to R &amp; D, we demonstrate our strong commitment to innovation and continuous improvement in order to anticipate the needs of our customers. We follow the product from design to after sale service and support, being a flexible and dynamic company. That is why Electrex continues to be chosen more and more from local and international partners.</p>

<p><b>Distribution - The partner we are searching for is a distributor / system integrator / private companies which can integrate our solutions in their products /electrici</b></p>
<p>The partner we are searching for is a distributor / system integrator / private companies which can integrate our solutions in their products /electric wholesaler / final users.</p>



The Electrex solutions are used in the energy efficiency and energy automation applications, for the industrial, tertiary, residential and renewable resources sectors allowing a rapid return on investment.

Electrex, one of the first companies to operate in these sectors, has acquired over the years a considerable experience and competence that few other companies can claim to have.

With over 40% of the staff dedicated to R & D, we demonstrate our strong commitment to innovation and continuous improvement in order to anticipate the needs of our customers.

We follow the product from design to after sale service and support, being a flexible and dynamic company. That is why Electrex continues to be chosen more and more from local and international partners.

#### OUR ACTIVITIES

- >> Measurement instruments for energy, environmental and process parameters
- >> Instruments for the energy consumption, production management and energy automation
- >> Monitoring and remote management network systems
- >> Data displaying solutions on various platforms
- >> Web server, gateway, converters and interfaces (Ethernet, Wireless, Serial, Bus, GSM, etc.)
- >> Energy data retrieving and management software
- >> Customized solutions and devices (OEM)
- >> Training and support on energy issues

#### INSTRUMENTS

**ENERGY DATA MANAGER AND ANALYZERS:** the X3M, Flash and Kilo families

Logging and analysis of the electrical energy and of its quality. Built-in memory and clock versions. Suitable for harsh environments.

**COUNTERS, MULTIMETERS AND TRANSDUCERS:** the Femto, Atto, Zepto, Peta, Etto families

Electrical energy measurements for the light industry, tertiary and residential sector. Available with Bus or E-Wi wireless communication type.

**GATEWAY, WEB SERVER, ENERGY AUTOMATION DEVICES:** the Yocto family

Remote management via Ethernet, Internet, Bus, GSM, wireless E-Wi of the data retrieved by Electrex instruments; forwarding of commands and alarms; retrieving of various parameters; multi platform displaying and remote controlling (PC, Internet, Smart Phone, Scada/HMI, etc.).

**MULTIFUNCTION SENSORS:** the Deca Sensor family

Retrieving and managing of the environmental parameters related to energy consumption (temperature, humidity,

luminosity) and process parameters. Available with Bus or E-Wi wireless communication type, battery or normal power supply.

**WIRELESS DEVICES:** the E-Wi instruments range

Wireless devices using the E-Wi protocol, specific for energy data transmission.



## ALCHEMIA SRL

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Address	VIA DELLA MUSIA, 101 25135 - BRESCIA	<b>Italy</b>
Phone	0302357327	
Email	info@alchemia.biz	
www	www.alchemia.biz - www.chigi44.it	
Organisation Type	Company	

### Contact Person

Name	<b>GIUSEPPE CHITARRA</b>
Position	

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	» Offer
» Waste selection and recycling	Technical Co-operation	» Offer/Request
» Eco-design and eco-compatible materials	Technological Co-operation	» Offer/Request
» Treatment of wastewater and water for domestic consumptions	Joint research project	» Offer/Request
» Saving water in intensive industrial manufacturing	Manufacturing agreement	»
» Techniques for the re-use of water	Commercial agreement	» Request
» Treatment and disposal of the resultant sludge	Financial agreement	»
» Sewage facilities		
» Sewage services		
» Energy saving and efficiency		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Alchemia designs, develop and produces modular panels used to increase oxygenation with water or waste water treatment, depuration and environment protection purposes. It has developed a special system called "breathing water" which is completely emission free. Besides Alchemia is a developer of chemical specialities for the maintenance and production industry.

FIELD OF ACTIVITIES: Waste water treatment, oxygenation systems used in fish farming, protection from eutrophication, and gas distribution systems.

#### MAIN PRODUCTS/SERVICES:

Innovative modular panels for oxygenation and distribution gases  
High efficiency membranes for waste water aeration systems.  
Chemical products for maintenance and production.

TECHNOLOGIES: "Breathing Water": a special system completely emission free.

**Distribution - We are looking for distributors in foreign countries.**

## AlgaRes srl

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Address	Via della Ricerca Scientifica 00173 - Roma	<b>Italy</b>
Phone	+39 3290569559	
Email	algares@romascienza.it	
www	www.algares.it	
Organisation Type	University	

### Contact Person

Name	<b>Neil Ellwood</b>
Position	Product Development

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Biomass, bio-gas	Technical Co-operation » Offer/Request
	Technological Co-operation » Offer/Request
	Joint research project » Offer
	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement » Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

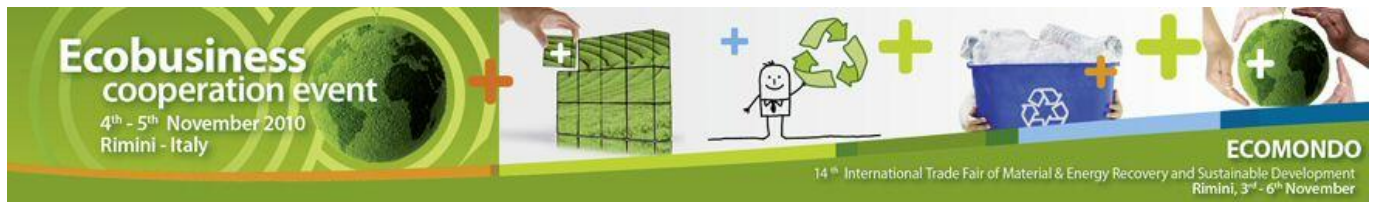
AlgaRes is an emerging university spin-off that was established on the 7th May 2009. It is an initiative built on the experience of a group of young biologists from the 'Biology of Algae Laboratory', University of Rome 'Tor Vergata'. This experience derives from research carried out for over 25 years into the biology and ecology of cyanobacteria and microalgae. The scientific proficiency of university teaching staff of the Department of Biology provides a wide base support to the activities of AlgaRes which include protection of cultural heritage and water resources, environmental quality and development of algal biotechnology for innovative applications

#### FIELD OF ACTIVITIES:

The activities of AlgaRes are all algal related and are wide and varied, spreading into biotechnological fields such as biomass production for the production of high value end products (e.g. biofuels, pharmaceuticals and nutraceuticals), environment protection and the management of algal blooms, agriculture, and cultural heritage protection. As the uses of algae are being realised, our experience allows us to be at the cutting edge of product development.

#### MAIN PRODUCTS/SERVICES:

AlgaRes offers services that include consultation, project planning, basic research and advanced training courses. In particular, AlgaRes activities are dedicated to the selection and production of specific algal species biomass for bioremediation of wastewater, production of biofuels and other bioactive and antioxidant compounds. AlgaRes activities include also: identification and monitoring of toxic cyanobacteria and microalgae, recovery of desertified and eroded land and biofixation of industrial CO<sub>2</sub>.



The prevention of cyanobacteria and microalgae growth on monuments is crucial for the protection against degradation of our cultural heritage; AlgaRes provides services for diagnosis, monitoring and prevention /limitation of biodeterioration associated with algal growth.

#### TECHNOLOGIES:

AlgaRes has much scientific competence and possesses the technology to obtain monospecific cultures of cyanobacteria and microalgae starting from natural mixed communities (aquatic and terrestrial). All species put into culture are maintained as an 'algal library' for possible future applications. We also have the capacity to determine the characteristics (phenotypic and genetic) of each strain and match these properties to potential applications. The growth of specific strains to optimise biomass and/or metabolite (bioactive compounds) production is a vital aspect of our experience to allow scaling up from a laboratory to an industrial level. This 'scaling up' is aided by using our photobioreactors designed for the growth of planktonic or biofilm forming-species.

#### **Research - We wish to scale up our process to an industrial scale and to promote sustainability.**

##### DETAILED DESCRIPTION:

Algae contain a host of chemicals and compounds of high value products, for example, carotenoids, phycobilins, fatty acids, polysaccharides, vitamins, sterols that have a range of applications in biofuel production, pharmaceuticals and nutraceuticals and compounds rich in nutrient elements (fertilizers). Commercialization of these products requires specific algal species grown in significant quantities.

The members of AlgaRes srl have a vast experience in the isolation of algal species and optimizing their growth at laboratory level. AlgaRes is then able to use this information to scale up production significantly utilizing photobioreactors.

Algae used as a tertiary treatment of wastewaters are particularly effective in removing pollutants such as heavy metals and nutrient elements (nitrogen, phosphorus). Legislation for the protection against pollution of water bodies sets emission limits for WWTPs. The use of algae is promising with regard to these laws, by providing not only the reduction of treatment costs, but also the production of algal biomass which can be further utilized for the extraction of biofuels, fertilizers, soil amendants, nutraceuticals food supplement and animal feeds. Based on their sound background in this field AlgaRes can offer consultation, research and support to private and public operators of wastewater treatment plants (WWTPs).

In the field of cultural heritage protection AlgaRes is actively involved the 'prevention' of algal growth. When left unchecked the growth of algal biofilms on stone and painted surfaces can result in irreversible degradation. AlgaRes provides diagnostic services for assessing and monitoring the extent of damage from biodeterioration and to thwart the growth of phototrophic microorganisms on confined monuments using non invasive techniques and innovative illumination systems.

Other services of AlgaRes involve the consultancy in the prevention and mitigation of problems caused by algal blooms.

##### MAIN ADVANTADGES / BENEFITS:

End products extracted from algal biomass are renewable and sustainable and have from minimal to positive environmental impacts. The benefits of using algae over crops for biofuels are many including: significantly higher yields, less water and area needed for growth of biomass, no pesticides, no fertilizers (wastewater can be used), cleaning of wastewaters, scrubbing of industrial gas emissions and no competition with food crops. The advantages of using biofilms in tertiary treatment of water are many, above all are the cost/benefits. Conventional methods require expensive chemical and physical treatments and, in certain circumstances, can

lead to the formation of even more harmful substances that can be problematic to the receiving natural ecosystems or add to the final costs of treatment.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

AlgaRes can obtain monospecific cultures of cyanobacteria and microalgae starting from natural mixed communities (aquatic and terrestrial). All species put into culture are maintained as an 'algal library' for possible future applications. We also can determine the characteristics (phenotypic and genetic) of each strain and match these properties to potential applications. The growth of specific strains to optimise biomass and/or metabolite (bioactive compounds) production is a vital aspect of our experience to allow scaling up from a laboratory to an industrial level. This is also aided by using photobioreactors designed and actually used for the growth of planktonic or biofilm-forming species.

AlgaRes perform molecular identification of useful strains, optimization of parameters needed to maximise growth and algal products of interest. An extensive phycological knowledge is required for designing, optimising and putting in place operation procedures of facilities intended to grow algal biomass; to this part AlgaRes can offer competent consultancy. Services offered include the selection, production and marketing of algal inocula, optimisation of growth and oil production, consultation for up scaling production and research into maximising oil production and recovery.

Optimisation of treatment using algae requires basic research to determine if the indigenous community has the capacity to perform the required treatment. If not, then 'seeded' or 'modified' biofilms of known characteristics are an option. These studies require a strong background in culturing techniques and algal physiology and further support by water quality analyses. The members have a decade of experience in the study of biofilms in wastewater remediation. Participation in national and international projects has provided us with an extensive background knowledge in the ecophysiology of aquatic phototrophic biofilms and their potential application in the remediation of industrial and civil wastewater.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Potential partners are investors, operators of wastewater treatment plants with existing facilities for adaptation to the production of algal biomass or industrial companies who wish to explore the possibility of photobioreactor implants for both the treatment of flue gases and the production of algae for biofuels. The optimum situation would be a partner with a mind to use algal growth as a treatment process of waste end products in combination with the production of biomass for biofuels and/or other secondary products. Pilot studies can be carried out in collaboration with potential industrial partners to aid the decision process for designing full scale facilities tailored to the available site and for obtaining optimum algal growth conditions. The potential designs are numerous and fully depend on the existing facilities or financial and area constraints on a new construction.



## Ambiente Legale s.r.l.

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Phone	+39 0744 400738	
Email	ferretti.flavio@iol.it	
www	www.ambientelegale.it	
Organisation Type	Company	

### Contact Person

Name	<b>Flavio Ferretti</b>
Position	Commercial office

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Offer
» Waste collection	Technical Co-operation	»
» Waste storage and transport	Technological Co-operation	»
» Waste treatment - plants and technologies	Joint research project	»
» Waste selection and recycling	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Ambiente Legale s.r.l. is an Italian consultancy offering a complete range of environmentally-focused services: legal advice, training and outsourced services including management of waste collection and treatment facilities, enrollment in the Registry of companies authorized to handle and treat refuse, waste brokering.

#### FIELD OF ACTIVITIES:

Consultancy and support for all areas of environmentally-related law and regulation.

#### MAIN PRODUCTS/SERVICES:

Ambiente Legale can provide specialized expert legal advice, training and e-learning services, newsletters and other updating on environmental laws and regulation, completion and filing of paperwork, and a broad range of outsourcing solutions for planning and management of waste and materials collection, handling and treatment, drafting of procedures, planning and management of site decontamination, etc.





**Services - Waste brokerage services: we can provide customized brokerage services to bring together sources of different kinds and categories of waste materials**

**DETAILED DESCRIPTION:**

We are interested in working with companies seeking Italian partners to accept or provide for transportation and treatment all kinds of solid waste materials (tires, municipal waste 19 12 10 and 19 12 12, asbestos, etc.).

**MAIN ADVANTADGES / BENEFITS:**

With a network of contacts from all over Italy, we have the means and the expertise to bring together those seeking waste materials and those seeking waste treatment partners.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Solid waste from municipal collection and industrial activities.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

There are two categories: those seeking partners to treat waste products, and those seeking sources of waste products that need to be treated.

**Consulting - Offering a complete, specialised environmental-legal consultancy**

**DETAILED DESCRIPTION:**

We would like to meet partners thinking of entering the Italian market, or already active there, and who seek legal-environmental support and consultation. For those considering locating a new business or activity, we can provide access to local partners for all phases of start-up including contacts and procedures needed to apply for financial support from local and regional authorities, where available.

**MAIN ADVANTADGES / BENEFITS:**

Ambiente Legale is a specialist consultancy with expertise in resolving all kinds of environmental law questions.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Private companies, public administration, individuals or consortia seeking specialist advice and support.

## ARON SRL

Page: 51

Address	VIA APPIA 5200 74123 - taranto	<b>Italy</b>
Phone	+39 099 4713742	
Email	info@aronsrl.com	
www	www.aronsrl.com	
Organisation Type	Company	

### Contact Person

Name	<b>Barbara Abo</b>
Position	tech. resp.

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Cooling and ventilation equipment	Technical Co-operation »
» Other	Technological Co-operation »
	Joint research project »
	Manufacturing agreement » Offer
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

ARON SRL designs and manufactures plastic material equipments. They supply products, solutions and services to a range of industrial sectors: chemical, petrochemical, steel, manufacturing, fishing and food industries, power plants, environmental engineering consultants.

ARON srl was founded in 1989 based on the Administrator's forty years experience and expertise in piping design and plastic materials manufacturing.

Aron developed in distinct segment of ecological market with "skimmers" and water processing plants with "self cleaning filters".

#### FIELD OF ACTIVITIES:

chemical, petrochemical, steel, manufacturing, fishing and food industries, power plants, environmental engineering consultants

#### MAIN PRODUCTS/SERVICES:

"skimmers" and water processing plants with "self cleaning filters".

The technical and commercial department is able to provide the best solution for specific customer requests, from the design to the final installation.

#### TECHNOLOGIES:

Filtration

Skimming oil from water



### Manufacturing - Self-cleaning static filter in polypropylene

#### DETAILED DESCRIPTION:

The company has developed a free-flow self-cleaning static filter designed to hold any debris dragged by liquids in piping systems. It consists of an external body and a filtering element entirely made of plastic materials. These components ensure resistance to sea water and aggressive fluids, and the total absence of limestone occlusion events.

The filter works with linear pressure (min. 2 bar) and operates continuously without user supply interruption even in the self-cleaning stage that is automatically regulated by means of a PLC control system. The free-flow filter manufacture simplicity and the chosen materials do not need maintenance for long periods of time.

#### MAIN ADVANTADGES / BENEFITS:

resistance in sea water  
 low operatin costs  
 maintenance free

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

flow filtration: 30-700 cm/h  
 filtration degree: 30 micron-6 mm

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

The partner sought is an Industry dealing with sea and fresh water treatment. The developer is interested in a cooperation with the partner to adapt the filter to his specific needs.

### Manufacturing - Oil drum skimmer in plastic materials

#### DETAILED DESCRIPTION:

The company has developed a floating drum skimmer able to recover floating mineral oils, vegetal oils and some chemical substances from the water.

The equipment is entirely made up of plastic materials and noble metals, unique in this field. It is pneumatic driven.

#### MAIN ADVANTADGES / BENEFITS:

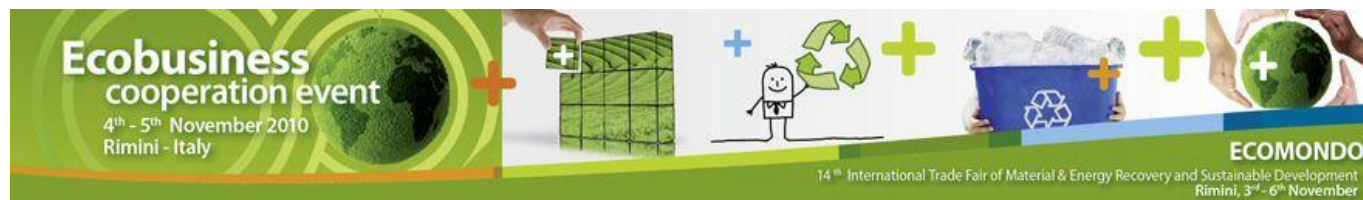
high recovery efficiency  
 lightness and reduced dimensions  
 safety in presence of inflammable products

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

oil recovery capacity: 1-20 cm/h of oil free from water  
 energy: dry compressed air 3-7 bar

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

The partner sought is an industry dealing with waste water treatment, ecology or a port services provider. The developer is interested in a cooperation with the partner to adapt the skimmer to his specific needs.



## Assegenik s.r.l.

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Address	Via Matteotti, 62 20092 - Cinisello Balsamo	Italy
Phone	+39 02 6120330	
Email	gnava@assegenik.it	
www	www.assegenik.it	
Organisation Type	Company	

### Contact Person

Name	<b>Gian Marco Nava</b>
Position	Sales & Marketing Director

Areas of activity	Type of co-operation	
» Cooling and ventilation equipment	Licence agreement	» Offer
» Other	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	» Request
	Commercial agreement	» Request
	Financial agreement	» Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Assegenik s.r.l. is a recently established company that designs and sells systems for abatement of emissions derived from combustion processes and both simple and complex industrial cycles.

In search of concrete and relevant answers to the problem of ecological emergency, which is becoming more pressing every day, the company developed an innovative patented technology called PWS® (acronym for Pollutants Wet Stripper), allowing the reduction of a wide range of pollutants with a single process.

#### FIELD OF ACTIVITIES:

Air pollution controll systems

#### MAIN PRODUCTS/SERVICES:

- BIOMASS SERIES: designed for the treatment of emissions originated from biomass combustion: chipped, woods waste, vegetable oils and fossil materials;

- PIZZA SERIES: designed for emissions typical of pizzerias, deep-fryer... dusty, odorous, saturated with oily substance.

#### TECHNOLOGIES:

PWS® (Pollutants Wet Stripper)

### **Other - Air cleaning technology to reduce emissions derived from biomass combustion processes**

#### **DETAILED DESCRIPTION:**

PWS® (Pollution Wet Stripper) is a technology based on a virtuous process which, taking advantage of the physical properties of gaseous liquids and water, allows much higher efficiency of traditional wet strippers by reducing energy consumption of the system.

Inside of the stripper, in different physical chemistry conditions, every tiny gas particle which is exposed to a multi-stage washing process undergoes an intensive treatment. Thanks to this, pollutant load will yield to the wash liquid and subsequently filtered and/or completely purified.

This technology makes it possible to realise abatement systems for a wide range of pollutant with a single process. It is no longer necessary to go through fume collection process before passing to the washing treatment since this already takes place inside the Stripper. Both small and large systems have achieved variety of important results in terms of percentages of abatement on mechanical (soot, fine dusts, metallic dusts) and gaseous (NO<sub>x</sub>, SO<sub>x</sub>, odours...) pollutants, let alone its efficiency in terms of energy consumption and maintenance.

#### **MAIN ADVANTADGES / BENEFITS:**

The advantages compared to other technologies are:

- Dimensions: The system is compact and limited to their absolute dimensions. Furthermore, it can be split or piled up so as to satisfy the most complex requirements.
- Sturdiness: The standard system is built entirely with stainless steel AISI 316 (if necessary, tougher material can be used), also there are no internal parts which can be broken or damaged from traction, compression, and wear and tear in time.
- Reliability: designed for 24h/24h operation, the PWS® is to stand up to fatigue. In addition, the absence of physical filters (downtakes, films, filling casing...) means minimum maintenance requirements, no periodical replacements are expected, no blockage, no clogging, no simple increase of load loss.
- Low cost: due to limited energy consumption and very limited consumption of wash liquid (closed circuit), for previously described reasons, the Assegenik system is inexpensive in terms of purchasing cost as well as maintenance requirement.
- Effectiveness: the PWS® technology is characterised by its effectiveness on many molecule categories. Therefore, besides the dusts, on which the effectiveness level has exceeded 90% in many occasions, the entire compounds families are abated or greatly reduced. This characteristic also applies to odours.
- Innovative character: the PWS® technology is a recently introduced technology and yet to fully demonstrate the potential it may possess. Many parameters can be managed and the use of special wash liquid allows us to optimise the odour load reaction to liquid acids.

#### **TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

- Innovative wet system
- Full stainless steel AISI 316 construction
- Closed cycle plant (fluids reuse)
- Biomass combustion tested (up to 3 mw thermal)
- High temperature suitable (off-gases up to 400 °c)

#### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

The ideal partner sought is already involved in ventilation/filtration/pollution control business area, so that it will have the unique opportunity to add PWS® technology to its existing product-range. The company has already signed an EU exclusive license agreement and is looking for distribution, license, or joint venture agreements with qualified partners in extra-EU Countries.



**ASSO ANCE**

Address	Via Moscova, 30 20210 - Milano	<b>Italy</b>
Phone	+39 0242107246	
Email	r.tramontana@netcontact.it	
www	www.assoance.it	
Organisation Type	Research Organization	

<b>Contact Person</b>	
Name	<b>Renato Tramontana</b>
Position	President

<b>Areas of activity</b>	<b>Type of co-operation</b>	
» Treatment and disposal of the resultant sludge	Licence agreement	»
» Cooling and ventilation equipment	Technical Co-operation	»
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Technological Co-operation	» Offer/Request
» Sustainable mobility electric vehicles	Joint research project	» Offer/Request
» Solar energy	Manufacturing agreement	»
» Geothermal energy	Commercial agreement	» Request
» Energy saving and efficiency	Financial agreement	»
» Thermal disposals		
» Energy conversion		
» Secondary fuels		
» Building materials		
» Heating equipments		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

<b>Services - Research/offer of R&amp;D projects</b>

## Austep Srl

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Address	Via Mecenate 76/45 20138 - Milano	<b>Italy</b>
Phone	+39.02.5099471	
Email	info@austep.com	
www	www.austep.com	
Organisation Type	Other	

### Contact Person

Name	<b>Roberto Fiume</b>
Position	Sales

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste treatment - plants and technologies	Technical Co-operation »
» Saving water in intensive industrial manufacturing	Technological Co-operation »
» Techniques for the re-use of water	Joint research project »
» Energy from waste and biomass	Manufacturing agreement »
» Biomass, bio-gas	Commercial agreement »
	Financial agreement »

**Other - We are an engineering company specialized in treatment of biogas plants for organic waste and biomass and purification. We take care of preliminary de**

## Bevtek

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Address	Via Checchia Rispoli, 317 71016 - San Severo	<b>Italy</b>
Phone	+39 0882 331755	
Email	bevtek@libero.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Michele Pangia</b>
Position	Manager

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste treatment - plants and technologies	Technical Co-operation » Offer
» Treatment of wastewater and water for domestic consumptions	Technological Co-operation » Offer
» Treatment and disposal of the resultant sludge	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The company has expertise in design and realization of waste treatment plants.

Owner is a consultant with chemical background, that looks for innovative solutions to waste management, on behalf of the final users.

#### FIELD OF ACTIVITIES:

Consultancy in waste management

### Consulting - Innovative technologies for wastewater treatment

#### DETAILED DESCRIPTION:

The company is looking for innovative systems for industrial wastewater treatment.

Forefront technologies ensuring environment impact as low as possible are sought for distribution or to allow the design of treatment systems.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

A closed-circuit technology will be preferred, that is without by-products (like sludge from biological treatment, or cleaning solutions). Other technologies resulting in small quantities of waste could be considered just jointly with proper techniques for by product reuse or disposal.



**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

He could be a supplier of a fully developed technology and should ensure the needed technical assistance for its use.

In case of technologies not fully developed the partner can be either a company or a research organization having the know-how required to allow the recipient to manufacture a system based on the proposed technology.

**Consulting - Innovative technologies for hazardous waste treatment**

**DETAILED DESCRIPTION:**

The company is looking for innovative technologies to treat hazardous solid waste coming from industrial plants (pharmaceutical, petrochemical, iron and steel industries).

The mixture of hazardous waste includes a high quantity of heavy metals and hydrocarbons.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The technologies proposed should ensure environment impact as low as possible.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Suppliers of fully developed technologies are sought for commercial agreements; developers of not completely developed technologies are sought for technical cooperation.

## Biella Produces

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Address	Via Aldo Moro 15 13900 - Biella	<b>Italy</b>
Phone	0039 015 3599311	
Email	info@biellaproduces.it	
www	www.biellaproduces.it	
Organisation Type	Other	

### Contact Person

Name	<b>Debora Ferrero</b>
Position	officer

Areas of activity	Type of co-operation
» Biomass, bio-gas	Licence agreement »
» Solar energy	Technical Co-operation »
» Wind energy	Technological Co-operation »
» Water energy	Joint research project »
» Fuel cells	Manufacturing agreement » Offer
» Energy saving and efficiency	Commercial agreement »
» Thermal disposals	Financial agreement » Offer
» Energy conversion	
» Secondary fuels	
» Building materials	
» Heating equipments	
» Control/metering equipments for heating in buildings	
» Other Energy topics	

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Biella Produces, who represents the Biella cluster (in the North West of Italy), is a project designed to attract new businesses in its territory from across Italy and abroad, thanks to a number of facilities provided by the Piedmont Region. It is lead by the Biella district Committee, that groups all the main institutions and professional associations of the area.

#### FIELD OF ACTIVITIES:

Investment in renewable energy technologies

#### MAIN PRODUCTS/SERVICES:

The project facilitates the possibility to access financial concessions addressing both private and public beneficiaries, which are already working or desire to access different manufacturing sectors. These sectors can be summarised as:

- Production of goods (manufacturing, mechanical, building, chemical, pharmaceutical, food, textile factories, etc.)





- Services to the production activity (transports, telecommunications, ICT, research & development, etc.)
- Energy (renewable energies, electricity, ecology, etc.)

For investors a series of accompanying services has been prepared, from concept to settlement, a turnkey package including:

- evaluation of benefits and opportunities;
- free grant facilities on investment;
- loans at reduced rates and incentives;
- advice for the realization of the business idea;
- accompanying at all stages of research and bureaucratic settlement;
- selection and training of highly qualified personnel.

A team of professionals is ready to welcome investors by providing all the tools to establish or relocate their company, guiding them with experience, punctuality and reliability.

**Investment - Biella Produces offer the possibility to access to free grant and financial facilities to company involved in production or research in the sustainabl**

DETAILED DESCRIPTION: Companies interested in opening new manufacturing plants or research& innovation labs in Italy (Piedmont Region) focused on the sustainable and renewable energy technologies

MAIN ADVANTADGES / BENEFITS: Accompanying and consulting to access to public free grant and financial facilities distributed by the Piedmont Region thanks to EU funds

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Any kind of company involved in the energy field

## Biodermol srl

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Address	Via G. di Vittorio, 91 38015 - Lavis	<b>Italy</b>
Phone	348 6700062	
Email	mauro@biodermol.it	
www	www.biodermol.com	
Organisation Type	Company	

### Contact Person

Name	<b>Mauro Baruchelli</b>
Position	co-owner

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	» Offer/Request
» Waste selection and recycling	Technical Co-operation	» Offer/Request
» End products made with salvaged material	Technological Co-operation	» Offer/Request
» Energy from waste and biomass	Joint research project	» Offer/Request
» Wastes processing and their utilization as secondary raw materials	Manufacturing agreement	» Offer/Request
» Biomass, bio-gas	Commercial agreement	»
» Other Energy topics	Financial agreement	»

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** Biodermol started in the 1950's with its production of enzymes for the pharmaceutical industry. In 2010 Biodermol creates the new ENVIRONMENTAL DIVISION with the aim to promote the use of active formulations (Bioenzime) based on enzymes, microorganisms and nutrients produced by Biodermol for the wastewater and polluted soils treatment. The Division is organized with its own Technical and Commercial, R&D and Production Depts.

The ENVIRONMENTAL DIVISION consists of three lines: 1) Civil, agricultural and Industrial Wastewaters line, 2) Lake Water line 3) Remediation of Polluted Sites line

### Research - Cooperation in enhanced soil washing process

**TECHNICAL SPECIFICATIONS:** The active formulations based on enzymes, microorganisms and nutrients (Bioenzime) produced by Biodermol for the wastewater treatment plants aim to accelerate the metabolic processes for the degradation of organic substances activated by the bacteria present in the wastewater. The microorganisms present in Bioenzime were selected on the basis of their ability to replicate rapidly and to compete with the other microorganisms present into the wastewater.

The results obtained are represented by:

- Lower concentration of B.O.D. and C.O.D. in the effluent
- Reducing concentration of nitrogen (up to 30%) in its various several forms (TKN)
- Reduction of phosphorus and chloride



- Elimination of foam
- Lower production of sludge
- Elimination of bad odors
- Possibility to maintain a low O<sub>2</sub> level into the reactor saving energy
- No modification of the plant

Biodermol studied and developed on an industrial scale process for the decontamination of hydrocarbons polluted sites. The Biodermol process is a combination of two processes: "soil washing" and "Bioremediation", the latter modified to shorten the time of hydrocarbons degradation.

## Bioh srl

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Address	via cavour 44 12042 - Bra	<b>Italy</b>
Phone	3356146409	
Email	gianni.busso@libero.it	
www		
Organisation Type	Company	

Contact Person	
Name	<b>Gianni Busso</b>
Position	administrator

Areas of activity	Type of co-operation	
» Building materials	Licence agreement	» Offer
» Heating equipments	Technical Co-operation	» Request
» Other Energy topics	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	» Offer/Request
	Commercial agreement	» Request
	Financial agreement	» Request

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Our technicians have years of experience in the German market in energy-saving buildings; in Italy we have designed and built civil and commercial constructions.</p> <p><b>FIELD OF ACTIVITIES:</b> bio-buildings and energy efficient</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Design end construction of bio-buildings, residential, commercial and educational; energy efficient and with a seismic wooden modular system.</p> <p><b>TECHNOLOGIES:</b> In our building wooden system, we use the facade ventilated with high energy saving; it is possible to use it in many types of architecture (civil, commercial and school buildings) with several solution of energy production, water saving and wastewater.</p>

Consulting - Designing buildings bio-compatible and energy efficient
<p><b>DETAILED DESCRIPTION:</b> build an bio-efficient village company's.</p> <p><b>MAIN ADVANTADGES / BENEFITS:</b> less time and cost building; large energy savings; high quality living; more building types; earthquake resistant</p>



TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): In our building wooden system, we use the facade ventilated with high energy saving; it is possible to use it in many types of architecture (civil, commercial and school buildings) with several solution of energy production, water saving and wastewater.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:public and private buildings company; engineering studies

**Manufacturing - Design and construction modular emergency homes with a wooden modular system.**

DETAILED DESCRIPTION:Design and construction modular emergency homes with a wooden modular system.

MAIN ADVANTADGES / BENEFITS:less logistics costs, speed assembly, high living

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:wooden house insulated with ventilated facade, heating system, electrical and sanitary installations.



## BIOSURVEY s.r.l.

Page: 65

Address	Viale delle Scienze, Edificio 16 90133 - 90133 - PALERMO (Italy)	<b>Italy</b>
Phone	0039 091 6615611	
Email	info@biosurvey.it	
www	www.biosurvey.it	
Organisation Type	Company	

### Contact Person

Name	<b>Fabio Maria Montagnino</b>
Position	Consultant

Areas of activity	Type of co-operation
» Eco-design and eco-compatible materials	Licence agreement »
» Other Energy topics	Technical Co-operation » Offer/Request
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Biosurvey srl is a spin-off of the University of Palermo. The company works in the field of research and operation in aquatic environments in cooperation with italian and international partners.

Biosurvey's founders have a long experience in ecological science and are able to develop and use advanced technologies for monitoring and remediation of the environment.

Together with a plastic industry, Biosurvey has designed and patented an innovative system for the reforestation of the damaged sea grass based on biodegradable materials and biomimetic design. Actually the company wants to extend this approach to other products for example in seminatural fish farms.

#### FIELD OF ACTIVITIES:

Environmental impact assessments;  
Bioremediation projects  
Environmental monitoring;  
Education

#### MAIN PRODUCTS/SERVICES:

Seabed cartography



Submarine inspection  
 Remediation of compromised seabed  
 Multimedia documentation of sea environment

**TECHNOLOGIES:**

Biosurvey operates a ship with the following equipments:

- Multibeam-SSS mod. 8125 Reson; Sub-Bottom Profile Parametric SES –2000 Compact Innomar;
- Side Scan Sonar Klein 3900;
- Trasponder USBL Scout;
- ROV Sirius classe Observer;
- Multiparametric probe Idronaut 316
- Scooter (DPV) Submerge Mod. UV-18

**Services - technical and commercial cooperation in development of tools for bioremediation in water environments**

**DETAILED DESCRIPTION:**

We are looking for partners in development and distribution of tools for bioremediation.

**MAIN ADVANTADGES / BENEFITS:**

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The system we have already patented combines innovative geometries and biocompatible materials. We want to extend this approach also to other tools useful for the recovery of water environments degraded by anthropic action.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER**

Innovative SMEs operating in bioremediation, companies that are producing or selling systems for fish farming.

## BOER GROUP SRL

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Address	VIA B. STRINGHER, 14 33084 - CORDENONS	<b>Italy</b>
Phone	+39 0434 931695	
Email	fabiano.romanin@boergroup.it	
www	www.boergroup.it	
Organisation Type	Company	

### Contact Person

Name	<b>FABIANO ROMANIN</b>
Position	SALES MANAGER

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Saving water in intensive industrial manufacturing	Technical Co-operation » Offer/Request
» Techniques for the re-use of water	Technological Co-operation » Offer/Request
» Treatment and disposal of the resultant sludge	Joint research project » Offer/Request
» Sewage facilities	Manufacturing agreement » Offer/Request
» Sewage services	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

FIELD OF ACTIVITIES: Production of concrete manufacture and construction products.

Project planning and construction of sewage treatment plants for waste and industrial water

### Supplier - Commercial and technical cooperation in the field of treatment of wastewater and water for domestic consumptions

MAIN ADVANTAGES / BENEFITS: the company can offer environmental advices and our expertise gained in all these years working on the field of water purification and production of concrete manufacture.

## Brebey Srl

Page: 68

Address	Via Dante, 14 09033 - Decimomannu	<b>Italy</b>
Phone	070.9663725	
Email	Brebey srl@tiscali.it	
www	www.brebey.it	
Organisation Type	Company	

### Contact Person

Name	<b>Pierluigi Damiani</b>
Position	Founder

Areas of activity	Type of co-operation	
» Eco-design and eco-compatible materials	Licence agreement	»
» Building materials	Technical Co-operation	» Offer
» Heating equipments	Technological Co-operation	» Offer
» Control/metering equipments for heating in buildings	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	» Request

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** Brebey Srl is a start-up company located in Sardinia that proposes new sustainable building materials and products usable for green building. Its core business is the production of technical textiles and innovative industrial articles made of sheep wool, mainly used for insulating aims.

**FIELD OF ACTIVITIES:** Green building/sustainable building products.

**MAIN PRODUCTS/SERVICES:** Products related to thermo-insulation in building: use of sheep wool in the production of insulating mattresses as building component.

**TECHNOLOGIES:** Insulation wool mattress: innovative process.

### Manufacturing - Insulation wool mattress

**DETAILED DESCRIPTION:** Thermal insulation systems represent an important branch of the building market. Brebey srl realized a thermal insulating wool mattress made of sheep wool that can be used, with high efficacy results, for thermal insulation as well as for acoustic insulation.

**MAIN ADVANTADGES / BENEFITS:** Sheep wool is a natural insulator and thanks to the support given by Engineering Department of University of Cagliari, the innovative technique makes the product in line with the Kyoto requirements that propose to use natural products for insulating aims to obtain higher energy efficiency in



building sector. This could also become a more effective use of sheep wool in an island like Sardinia where the waste disposal of such material is becoming more and more expensive.

**TECHNICAL SPECIFICATIONS:** Innovations of the product are related to the innovative way of producing an eco-compatible material used in the building sector.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** Partner coming from industry working in the building sector and intending to enlarge its range of products; associations working in the building sector. Others. Different type of collaborations can be considered.



## C.A.T. Progetti SRL

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Address	Via Sagittario, 21 40044 - Sasso Marconi	<b>Italy</b>
Phone	+39 051 6782008	
Email	paolobertuzzi@hsprogetti.191.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Paolo Bertuzzi</b>
Position	Manager

Areas of activity	Type of co-operation	
» Waste selection and recycling	Licence agreement	» Request
» End products made with salvaged material	Technical Co-operation	» Request
» Solar energy	Technological Co-operation	» Request
» Wind energy	Joint research project	» Request
» Energy saving and efficiency	Manufacturing agreement	»
» Building materials	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

C.A.T. Progetti started its activity in 1984 in the field of process automation. In 1988, C.A.T. Progetti was approved as a private research laboratory and began collaborating with universities for R&D in various field of automation. Over the years we have create 28 research projects between regional and national level and we have worked for FIAT for the production line of the engine FIRE. In 2009, together with other 5 partners (all SMEs) and with the sponsorship of C.N.A (National Confederation of small company and artisans <http://www.bo.cna.it/adon.pl?act=doc&doc=189&sid=41>) we founded a network that operates in the fields of photovoltaic, micro photovoltaic, solar thermal, wind power, micro wind power, cogeneration, geothermal surface and depth, covering high degree of reflectance for energy saving, etc. We take care of the different phases of the project: from the consultancy to the maintenance passing through the feasibility study, quotation, installation and correlated services.

In the same year we have established with sponsorship of C.N.A. a network to recycling RAEE without waste.

#### FIELD OF ACTIVITIES:

Process Automation

Recycling of mixed plastic waste to produce products (chair, table, construction product)

R&D in the field of Green Economy: Wind Energy and energy efficient Buildings



**Research - Search new technologie for photovoltaic, micro photovoltaic, solar thermal, wind power, micro wind power, cogeneration, geothermal surface and depth.**

**DETAILED DESCRIPTION:**

Serch new technology for photovoltaic, micro photovoltaic, solar thermal, wind power, micro wind power, cogeneration, geothermal surface and depth.

**MAIN ADVANTADGES / BENEFITS:**

Using the network C.N.A. (National Confederation of small company and artisans <http://www.bo.cna.it/adon.pl?act=doc&doc=189&sid=41> ) we guarantee sale, installation and maintenance throughout Italy

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER.**

Collaborative R&D, study and design  
 Participation in team to FP7 projects  
 Build  
 Purchase and distribution products,  
 Installation and servicing;

**Other - Use of plastic waste mixed type car fluff to produce artifacts and incorporating CO2**

**DETAILED DESCRIPTION:**

We have developed a technology to work the mixed plastic type Car Fluff and turn them into manufactured goods for the construction and furnishing

Another technology allows us to mix carbon dioxide (CO<sub>2</sub>) with plastic waste resulting insulating panels

**MAIN ADVANTADGES / BENEFITS:**

Avoid landfills plastics mixed type Car Fluff  
 New technology to remove CO<sub>2</sub> from the air incorporated into artifacts

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Participation in team to FP7 projects  
 Build  
 Purchase and distribution products,  
 Installation and servicing;

## C.E.B. Impianti S.r.l.

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Address	Via Stabilimento Figliodoni, 14 23891 - Barzanò	<b>Italy</b>
Phone	+39 039 958482	
Email	info@cebimpianti.com	
www	www.cebimpianti.com	
Organisation Type	Company	

Contact Person	
Name	<b>Paolo Pozzi</b>
Position	Commercial Manager

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Waste selection and recycling	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> C.E.B. IMPIANTI was established in 1996 by a team of people specialized in different fields and having a twenty-years experience in washing systems. We are specialized in the engineering, design, manufacture and supply of single machines and complete production plant that allow to clean any kind of container. Our production concerns different industrial fields, everywhere there are containers to be washed.</p> <p><b>FIELD OF ACTIVITIES:</b> Our production is present in Italy and foreign Country with hundreds of different solutions for the containers washing. Standard machines and special plant are carried out for recycling industries. Our Customers are also industries producing chemistry, food, cosmetics, textile, tannery, pharmaceutical, etc.</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Single machines and automatical lines for the inside / outside washing of: IBC, DRUMS, WASTE CONTAINERS, BINS, BARRELS, PANS.</p>

**TECHNOLOGIES:**

Our technologies allows the reconditioning the used containers.

Our systems are realized to get the best result taking in consideration:

- Best washing quality
- Functional and economically rational employment of the staff
- Wash time reduction
- Reduction of power and liquids consumption
- Safety for the operators and protection of environment

**Export - We are looking for commercial agreement for the sale of the washing system of our production**

**DETAILED DESCRIPTION:**

Washing systems for the washing of any kind of containers using water or solvent.

Our systems are built to wash by spraying the washing media in high pressure or using brushes.

**MAIN ADVANTADGES / BENEFITS:**

Reduction of the consumption of the water or solvent used for the washing of each container.

Reduction of washing time.

Best Quality of the results.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Our systems works in a closed circuit (washing and rinsing) reusing the washing liquids with a filtering system

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Buyers, Sales Agents.

## C.M. srl

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Address	Via Bedazzo, 39 48022 - Lugo	<b>Italy</b>
Phone	0545 34134	
Email	cm@cm-elevatori.it	
www	www.cm-elevatori.it	
Organisation Type	Company	

### Contact Person

Name	<b>Domenico Calonaci</b>
Position	Executive Chairman and CEO

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste selection and recycling	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: The C.M. Company was born in 1973 as producer of trailer mounted hydraulic forklifts for agricultural tractors and for industrial lift truck. The wide range of forklifts is completed by a series of accessories and interchangeable equipments, entirely designed and constructed by C.M: hydraulic tippers for plastic and wooden bins; hydraulic, mechanical and pitchforkable buckets for the handling of bulk materials.

#### FIELD OF ACTIVITIES:

Motion and lifting in agriculture and industry.

#### MAIN PRODUCTS/SERVICES:

Hydraulic tippers for plastic and wooden bins; hydraulic, mechanical and pitchforkable buckets for the handling of bulk materials; hydraulic forklifts.

### Export - To meet potential clients and business partners interested in tippers, buckets and forklifts for handling materials

#### DETAILED DESCRIPTION:

We offer hydraulic tippers, buckets and forklifts for handling bulk materials and materials in plastic and wooden bins.





**MAIN ADVANTAGES / BENEFITS:** CM Tipper can be applied to forklift trucks and they are ideal for turning upside down and moving all kind of bins. CM Buckets can be applied to forklift trucks; recommended for moving loose materials and available in the stainless steel version.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):** CM produce the patented tipper CM165 FLAP, its leading model tipper. Applicable to all kind of trucks and operating machines, it's equipped with a patented valve that allows, by only one control, the locking and following upsetting of the bins. During the upsetting, by the new double locking system of the boxes, the product never comes into contact with the machine. Available in the stainless steel version also.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Any company interested in handling bulk materials and materials in plastic and wooden bins and forklift trucks dealers.

## CAMOTER COMMERCIALE SRL

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Address	VIA VARESE, 25/G 21047 - SARONNO	<b>Italy</b>
Phone	02 96701953	
Email	ufficio.commerciale@camoter.com	
www	www.camoter.com	
Organisation Type	Company	

### Contact Person

Name	<b>ALESSANDRO MAIOCCHI</b>
Position	MARKETING MANAGER

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste treatment - plants and technologies	Technical Co-operation	» Offer/Request
» Waste selection and recycling	Technological Co-operation	» Offer/Request
» Energy from waste and biomass	Joint research project	»
» Wastes processing and their utilization as secondary raw materials	Manufacturing agreement	»
» Biomass, bio-gas	Commercial agreement	» Offer/Request
» Pellets	Financial agreement	»
» Fuel cells		
» Secondary fuels		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Camoter Commerciale was established in 1994 with the aim of selling earth-moving machinery and made rapid progress on the northern Italian market.

In 1998, a strong entrepreneurial spirit, together with an keen sense of analysis, allowed the management to take full advantage of its know how within an entirely new business: the sale of recycling machinery.

Company mission is provide qualitatively superior solutions and guarantee long-term professional technical assistance, constant improvement and continuous desire to exceed expectations defines the spirit of dedication of the management, and guarantees the achievement of the company's mission

#### FIELD OF ACTIVITIES:

Sales and service new and used machinery for recycling

#### MAIN PRODUCTS/SERVICES:

Camoter Commerciale now working with these suppliers: HAMMEL RECLYNGTECHNIK – provides unique shredding technology, TEREX FUCHS– provides innovative loading machines, ME.WA - provides leading equipment for the recycling of scrap, tyres and WEEE, ECOSTAR - provides new screening systems, WILLIBALD - professional composting and wood treatment technology



**TECHNOLOGIES:**

Shredding-movement-screening-equipment for recycling - composting

**Distribution - Consulting Distribution Import Services Supplier**

**DETAILED DESCRIPTION:**

Partnership in tenders/Project development/Sales and distribution partnership/Extend products and services range

**MAIN ADVANTADGES / BENEFITS:**

Strong experience/High project management level

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

waste treatment, wood treatment, WEEE and fridge plant and alternative energy program

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Environmental players/Institution/Suppliers



## CARLIEUKLIMA SPA

Page: 78

Address	VIA FOSSALUZZA, 12 33074 - FONTANAFREDDA	Italy
Phone	+39 0434 599311	
Email	info@carlieuklima.it	
www	WWW.CARLIEUKLIMA.IT	
Organisation Type	Company	

Contact Person	
Name	<b>GASTONE MARTOREL</b>
Position	CHIEF EXECUTIVE

Areas of activity	Type of co-operation
» Solar energy	Licence agreement »
» Energy saving and efficiency	Technical Co-operation »
» Other Energy topics	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

Short description of company
<p>FIELD OF ACTIVITIES: Our company is present in the field of radiant heating systems in the European market for many years. In the last years we have extended our commercial net also in the East European Countries.</p> <p>We are specialized in:</p> <ul style="list-style-type: none"> <li>-Production of gas fired radiant heating systems for industrial and commercial areas.</li> <li>-Production of radiant heating and cooling systems for industrial, commercial and civil areas.</li> <li>-Production of accessories for air canalization</li> </ul>

Distribution - WE ARE LOOKING FOR DEALERS, AGENTS OR IMPORTERS IN THE FIELD OF HEATING/COOLING/CONDITIONING SYSTEMS
<p>TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): Our products works with the principle of radiance, that in comparison with the traditional ways of transmission of heat, gives a greater comfort, no air movement in the environments, well-being for the people and fuel savings.</p> <p>TYPE OR QUALIFICATION OF POTENTIAL PARTNER: We are looking for potential dealers, agents or importers with experience in the field of heating/cooling/conditioning systems or in the field of costruction for cooperation in building construction and contracting.</p>

**CARRETTA Srl**

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Address	Via Zecchina 19/a 31055 - Quinto di Treviso	<b>Italy</b>
Phone	0039 0422371023	
Email	r.pavanetto@carrettaautomazioni.it	
www	www.carrettaautomazioni.it	
Organisation Type	Company	

<b>Contact Person</b>	
Name	<b>Renato Pavanetto</b>
Position	Owner

<b>Areas of activity</b>	<b>Type of co-operation</b>	
» Waste treatment - plants and technologies	Licence agreement	»
» Other Energy topics	Technical Co-operation	» Offer
	Technological Co-operation	» Offer
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

<b>Short description of company</b>
<p><b>FIELD OF ACTIVITIES:</b> This company is specilaized in automation for machines and plants.</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Industrial automation machines wiring, software for industrial automation and industrial robots.</p>

<b>Manufacturing - Automation prototypes for machines and plants.</b>
<p><b>DETAILED DESCRIPTION:</b></p> <p><b>MAIN ADVANTADGES / BENEFITS:</b> This comany has 20 years of experience in the field of automation prototypes.</p> <p><b>TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):</b></p> <p><b>TYPE OR QUALIFICATION OF POTENTIAL PARTNER:</b> carreta automation offers its know-how to producers of renewable energy plants, waste treatment plants and air and water treatment plants.</p>



## Cenergy srl

Page: **80**

Address	Via Della Zonta, 2 34122 - Trieste	<b>Italy</b>
Phone	+ 39 3389794106	
Email	info@cenergy.it	
www	www.cenergy.it	
Organisation Type	Company	

### Contact Person

Name	<b>Rodolfo Taccani</b>
Position	Innovation manager

Areas of activity	Type of co-operation
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Licence agreement »
» Energy from waste and biomass	Technical Co-operation » Offer
» Fuel cells	Technological Co-operation » Offer
» Energy conversion	Joint research project » Request
	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: 2010 University spin off Company

FIELD OF ACTIVITIES: R&D in fuel cells

MAIN PRODUCTS/SERVICES: biogas / lpg / methane Fuel cell generator s

TECHNOLOGIES: Fuel cell

### Research - Pilot project in Biogas/LPG/Methane fuelled Fuel Cells

DETAILED DESCRIPTION:

biogas / lpg / methane Fuel cell generator s

MAIN ADVANTADGES / BENEFITS:

High efficeincy, low environmental impact

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Power output 0-1000W

Efficiency 30%

Fuel: biogas, lpg, methane

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Biogas producers, Boat producers,

## CENTOFORM s.r.l.

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Address	Via Nino Bixio 11 44042 - Cento	<b>Italy</b>
Phone	00390516830470	
Email	centoform@centoform.it	
www	www.centoform.it	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandro Mazzini</b>
Position	International projects

Areas of activity	Type of co-operation	
» Biomass, bio-gas	Licence agreement	»
» Solar energy	Technical Co-operation	» Request
» Other Energy topics	Technological Co-operation	» Offer/Request
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

CENTOFORM was set up in 2001 in Cento, Emilia Romagna Region, North Italy. It is a dynamic company composed by senior consultants in the fields of business planning, counselling, research, writing and management of European and Italian funds.

It's key feature is flexibility and its open network of senior consultants. Since 2001 it has been growing thanks to the direct involvement in several projects at Italian and European level. The present staff of senior consultants and management employees is composed by 25 people. Nevertheless CENTOFORM main feature is the capacity of activating a national and international network system according to the specific needs of the clients, according to the projectual idea and objectives.

#### FIELD OF ACTIVITIES:

Its main activities are addressed to Sme's and workers in the area of life long learning formation and vocational formation, information technology, support to human resources areas and to project areas either for public and private bodies.

Another important field is the research, planning and management of national and international lines in the field of ICT, Sustainable Economy, research, vocational training using the technique of an ongoing spreading of the net. During these years the net of contacts have been growing, including several realities at Italian and European



level (universities, research centers, private Smes involved in innovation processes, public bodies etc.). This gives to CENTOFORM the possibility to tailor projects and partnerships.

**MAIN PRODUCTS/SERVICES:**

Technical support to Smes, universities, clusters, research centers and public bodies as for European and Italian projecting activities. From the research of financial lines to the construction of partnerships up to the management of the entire project cycle.

Organization of vocational training courses for workers, Sme's management and mobility.

**TECHNOLOGIES:**

No specific technologies are developed inside the company process, our main activity is networking and matching of entities which aim to develop commercial, technological partnerships and research projects.

**Consulting - Building the net, open ideas in an open networking system.**

**DETAILED DESCRIPTION:** Our main aim is to build a new net meeting and involving private and public entities which are ready and open to invest and research in sustainable ideas. We can match ideas, Sme's, universities and technical instruments (public and private fundings).

**MAIN ADVANTADGES / BENEFITS:**

Our multitask reality offers high flexibility and a open vision capacity of creation of active and efficient partnerships starting from an idea.

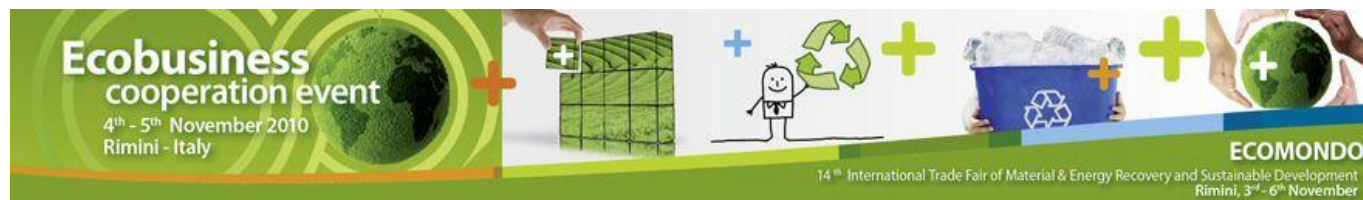
Moreover we mainly operate in a region, Emilia Romagna, which is characterised by a strong dynamic economy and an important research tradition. It is the first Italian region which has been creating an official net of technical and research university centers in 8 research areas (from ICT to environment, from sustainable energies to agricultural techologies). This important project, called "Tecnopoli net" will foster the idea of partnership and transversal application of the research in many fields.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

We have a specific knowledge of Romanian market and Romanian partners either public and private ready to invest in green economy and sustainable energies for environmental policies.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Private bodies: Sme's interested in having an efficient and flexible partner for intermediate networking activities. International research centers. Sme's which are ready to invest in sustainable technologies in the European market. Public bodies: Universities, public bodies, research centers.



## CGS Consolidamenti S.r.l.

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Address	via L. Da Vinci, 24 47025 - Mercato Saraceno	<b>Italy</b>
Phone	0546.46809	
Email	ambiente@cgsconsolidamenti.com	
www	www.cgsconsolidamenti.com	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandro Parise</b>
Position	Technical Director

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Request
» Waste treatment - plants and technologies	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Request
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** In 2003 five historic companies of Emilia Romagna sets up CGS Consolidamenti S.P.A., a service company specialised in the stabilization of road surfaces and subgrades. In a few years CSG has become the Italian leading company of the sector. Corporate strategy led to the creation of CGS AMBIENTE (2006) for assesment and decontamination of polluted sites.

**FIELD OF ACTIVITIES:** polluted site remediation and road costruction using stabilization technology.

**MAIN SERVICES:** performance of site assesment and remediation services.

**TECHNOLOGIES:** polluted soil disposal and treatment, in situ groundwater treatment.

### Services - Find commercial anf technical parteners for new market opportunities in site remediation

**DETAILED DESCRIPTION:** waste treatment/disposal plant in Italy or northern Europe - technological innovation in site assesments and remediation strategies.

**MAIN ADVANTADGES / BENEFITS:** cost competitive solutions - new market opportunities.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** private companies or others

## Chemical Center S.r.l.

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Address	Via E.Mattei 4 40050 - Castello d'Argile	Italy
Phone	051-795002	
Email	info@chemicalcenter.it	
www	www.chemicalcenter.it	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Filippo Pierini</b>
Position	Ph.D student

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	»
» Waste selection and recycling	Technical Co-operation	» Offer
» Other	Technological Co-operation	» Offer
» Wastes processing and their utilization as secondary raw materials	Joint research project	» Offer
» Solar energy	Manufacturing agreement	»
» Energy saving and efficiency	Commercial agreement	»
» Energy conversion	Financial agreement	» Request
» Other Energy topics		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Chemical Center was founded in 2009 on the initiative of university professors, researchers and private undertakers. The company's mission is to develop research activities for technological innovations, especially in the nano-technological field, and also to study and set new experimental methods to solve problems concerning the manufacturing of environmental polluting materials, their chemical investigation and dumping. Chemical Center comes out to offer manufacturers the most skilled expertise acquired in many years devoted to basic research studies carried out in various Departments at the Bologna University, in particular concerning the structure, morphology, chemical, physical and surface properties of nano and micro-structured materials. Many manufacturing fields are interested in the commercial advantages out coming from the application of nano and bio-technologies, of design and synthesis of new materials. These fields range from cosmetics to packaging, to foodstuff and bio-mimetic innovative materials for bio-medical and environmental applications.

#### FIELD OF ACTIVITIES:

- any kind of chemical analysis, in particular referring to the qualitative and quantitative analysis concerning any composite, molecule and chemical element present in solid, liquid and gaseous samples of environmental, biological, technological and commercial interest
- environmental monitoring - qualitative and quantitative analysis concerning:
  - a) atmospheric, aqueous, ground and waste materials; local sampling for analysis of fine dusts with a high flow impactor;





b) presence of asbestos fibers in the atmosphere, in solid, liquid and ground samples and evaluation of the asbestos pollution;

- chemical analysis of bio-medical, micro-biological and toxicological interest
- chemical, physical and surface characterization of conventional and technological materials, in particular specifying the structure, morphology and surface reactivity in order to state the relation structure-property;
- expertise, development of intellectual products and know-how (for example: the study and setting of new experimental methods to cancel the problems linked to the manufacturing and dumping), patents, brands, utility patterns;
- study for innovative technologies, for example the design, the realization and characterization of new materials for technological applications; carrying out pilot plants, for example concerning production of energy from renewable sources; inserting of asbestos materials through chemical-physical and biological transformations;
- synthesis of inorganic, macro-molecular and hybrid materials through sol-gel, hydrothermal and electrochemical processes, with the help of nano-technologies, microwaves and ultrasounds;
- reports and technical evaluations in the environmental, bio-medical and technological fields;
- marketing of synthetic products;
- formation and updating courses for public and private personnel;
- purchase, sale, concession/acquisition for the use or license of patents, brands and intangible properties concerning the above mentioned activities. Agreements with institutions, public bodies and universities are also foreseen.

Chemical Center is also available in sharing participations with other Italian and foreign undertakers carrying out similar activities, or connected interests, with the only aim of obtaining a stable settlement and not professionally aiming at the direct commercial marketing.

**Research - Production of Photovoltaic Cells**

**DETAILED DESCRIPTION:**  
 Chemical Center resolves to be the reference for the public and private research in the study of innovative materials, that is from materials of new generation to the development of the conventional ones. Thanks to the synergic integration of the experiences acquired in the university studies, the specialization and complementarity with the many research structures involved, Chemical Center is offering tailored solutions to undertakers. In particular, we are seeking producers of innovative photovoltaic cells. We also seek someone who can test these cells.

**TECHNICAL SPECIFICATIONS:**  
 We provide techniques for the characterization of nanostructured materials, such as ATR-FT-IR, XRPD, SEM, TEM, AFM, DT-TGA, UV-VIS.

**Services - Advanced Laboratory of Analysis Research and Nanotechnology**

**DETAILED DESCRIPTION:**  
 We are an advanced laboratory of analysis research and nanotechnology

**MAIN ADVANTADGES / BENEFITS:**  
 We perform analysis in many different fields, but we focus on environmental and biological structural chemistry. We can work both for private and public industries.

**TECHNICAL SPECIFICATIONS:**  
 Sampling activities



Preparation of the sample (mineralization, incineration, disgregation, dissolution, extraction, leaching and similar preparations)

Chemical and chemical-physical analysis

- Thermic treatments
- Differential thermic activity (DSC, TG-DTG, DTA)

Determination of the chemical-physical characteristics:

- weight
- volume
- morphology
- dimensions
- structure
- crystallinity
- chemical composition

Chromatography: liquid on ionic exchange, liquid on high performance (HPLC), on gaseous phase (GC e GC-MS/MS)

X ray diffraction: method based on dust from any crystalline material, single crystal

Photoelectronic spectrophotometry induced by X rays (XPS)

Mechanical granulometry

Electronic microscopy and by atomic force: SEM (determination by EDX), TEM, AFM

Optical microscopy: MOCF, MOLP

Spectroscopy:

- atomic absorption by flame
- atomic absorption in graphite oven
- UV/visible absorption
- dichroism (DC)
- ICP-AES
- FT-IR



## CIGNO VERDE SOC COOPERATIVA SOCIALE ARL

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Address	VIA BELLI 6/A 43126 - PARMA	Italy
Phone	0521995328	
Email	info@cignoverdecoop.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Hassan Bassi</b>
Position	President

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste collection	Technical Co-operation	»
» Waste storage and transport	Technological Co-operation	»
» Waste treatment - plants and technologies	Joint research project	» Offer
» Waste selection and recycling	Manufacturing agreement	» Offer
» End products made with salvaged material	Commercial agreement	» Offer/Request
» Treatment of wastewater and water for domestic consumptions	Financial agreement	»
» Sewage facilities		
» Sewage services		
» Energy from waste and biomass		
» Wastes processing and their utilization as secondary raw materials		
» Pellets		
» Solar energy		
» Wind energy		
» Water energy		
» Fuel cells		
» Building materials		
» Control/metering equipments for heating in buildings		

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: 10 years in waste transport and recycling

FIELD OF ACTIVITIES: By including the work of people in social difficulties we work in waste collection, transport and selection; also involved in the field of alternative energy

MAIN PRODUCTS/SERVICES: WASTE Selection transport and storage, solar panels installation, manual activities, environmental restoration projects, phitopurification



**Supplier - find partner as suppliers, customers for our services, innovative solution for our services, available to subcontracting**

**DETAILED DESCRIPTION:**

We are looking for partners as suppliers, customers for our services, innovative solution for our services, available to subcontracting

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested): renaturation and lowland forests, water natural purification, design, construction and maintenance of naturalistic trails; weee treatment, reuse and recovery, weee storage; installation, design for green energy

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** Merchant secondary raw materials, waste treatment plants, transportation systems and projects for environmental restoration, renaturation and lowland forests, photovoltaics (PV)



## CIRIAF (Interuniversity Research Centre on Pollution from Physical Agents)

Page: 89

Address	Via Duranti 67 06125 - Perugia	<b>Italy</b>
Phone	+39.075.585.3717	
Email	ciriaf@unipg.it	
www	www.ciriaf.it	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Francesco Asdrubali</b>
Position	Director

Areas of activity	Type of co-operation
» End products made with salvaged material	Licence agreement »
» Eco-design and eco-compatible materials	Technical Co-operation » Offer/Request
» Cooling and ventilation equipment	Technological Co-operation » Offer/Request
» Energy from waste and biomass	Joint research project » Offer/Request
» Wastes processing and their utilization as secondary raw materials	Manufacturing agreement »
» Solar energy	Commercial agreement »
» Energy saving and efficiency	Financial agreement »
» Building materials	
» Heating equipments	
» Other Energy topics	

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

CIRIAF was founded in 1997 by the University of Perugia and University of Roma Tre. University of Florence, Pisa, L'Aquila, Rome "La Sapienza" and Polytechnic of Bari have later joined the agreement. Actually the members of the Scientific Council of CIRIAF are more than 100 from 14 different Universities. Mission and objectives are to promote research, both theoretical and practical, in the field of pollution from physical agents and its effects on the environment, the territory and its social-economic implications.

CIRIAF's laboratories at the University of Perugia are one of the main scientific and technical resources of the Faculty of Engineering. CIRIAF may access the laboratories of all the Universities participating in the agreement. CIRIAF's staff members are researchers and engineers specialized in the field of energy, thermal management, environment, innovative transportation systems, pollution control and medicine.

CIRIAF is a major partner of two mobility projects at European level: GREEN POST (2007-2010, Intelligent Energy Europe) and RENAISSANCE CIVITAS+ (2008-2012), in charge of some environmental impact studies and of the energy evaluation.

CIRIAF is also partner of the LIFE+ project "NADIA - Noise abatement demonstrative and innovative actions and information to the public".

The Ministry of the University and Scientific Research funded a National Project called GENIUS LOCI on the role of the building sector on climate change; within this project, CIRIAF developed methodologies to apply the Life





Cycle Analysis approach to the construction industry, including building materials and plants (years 2006-2010). CIRIAF has also promoted and directed many scientific national relevant projects in the energy field (molten carbonate fuel-cells, renewable energies and energy efficiency in buildings, hydrogen vector, solar cooling with absorption machines).

**FIELD OF ACTIVITIES:**

The main research areas are acoustics, energy systems, with particular emphasis on renewable energies, thermal aspects of buildings, sustainable mobility.

**Research - Taking part to the EU VII FP EeB-NMP.2011-1**

**DETAILED DESCRIPTION:**

We are looking for possible partners to join existing network (research centres and companies) to take part to the call EeB-NMP.2011-1 "Materials for new energy efficient building components with reduced embodied energy". The deadline is December 2nd.

**MAIN ADVANTADGES / BENEFITS:**

It is a large scale collaborative project funded by the EU (minimum budget 4 M€).

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Experience in the field of sustainable materials (both from natural and recycled materials) for applications in building thermal and acoustic insulation.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Small-medium Enterprises in the field of material manufacturing, Associations of SMEs in the same field, Research Centres and Universities with particular skills in thermal and acoustic properties of building materials.

## climatek srl

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Address	Via Fondovilla 84/C 36010 - carrè	<b>Italy</b>
Phone	+39(0)445891540	
Email	info@climatek.com	
www	www.climatek.com	
Organisation Type	Company	

### Contact Person

Name	<b>Massimo Giuriato</b>
Position	legal representative

Areas of activity	Type of co-operation	
» Heating equipments	Licence agreement	» Offer
	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The climatek has an exclusive know-how for heating and cooling radiant floor / wall / ceiling and the control of temperature/humidity/dew point-sensor.

#### FIELD OF ACTIVITIES:

radiant heating e cooling for the floor, wall and ceiling, dry and humidity systems.

#### PRINCIPALI PRODOTTI / :

radiant heating e cooling for the floor, wall and ceiling and exclusive automatic regulation ClimaBit

### Import - we are looking for sole agent or distributor for all Europe

DETAILED DESCRIPTION: We offer exclusive systems for heating and cooling the radiant floor / wall / ceiling and thermoregulation (our proprietary software)

#### ADVANTAGES PRINCIPALI / Benefici :

Exclusive products made in Italy that identifies the representative with quality products and high technological value for the ecology and energy saving.

#### CARATTERISTICHE TECNICHE (La compilazione di tempo condensato campo e fortemente Consigliato) :

our underfloor dry heating saves 12% of fuel compared to the underfloor heating with concrete.

TIPO o le qualifiche di Potenziali partner: Introduced in the architecture and engineering and builders, or placed in the building and plumbing.



## COMARP - Consorzio Milanese Artigiani di Produzione

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Address	Via Berlinguer, 1 20030 - Senago	<b>Italy</b>
Phone	+39029980072	
Email	estero@comarp.it	
www	www.comarp.it	
Organisation Type	Company	

### Contact Person

Name	<b>Eleonora Montrasio</b>
Position	Marketing Coordinator

Areas of activity	Type of co-operation	
» Wind energy	Licence agreement	»
	Technical Co-operation	» Offer
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	» Offer
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Established in 1980, the Comarp consortium groups 14 small companies based in northern Italy which have been operating in the metal-mechanical, rubber and design sectors for over thirty years.

Today, Comarp is a flexible and consolidated force, with a staff of 190 between technicians and qualified personnel, and a selection of production machinery capable of an ample range of workings.

Testifying to the excellence of Comarp are various prizes received in the spheres of innovation and technological advancement.

#### FIELD OF ACTIVITIES:

Due to its specific points of strength, the technology and know-how offered finds use in the production of critical components in energy production systems of high added value, like wind turbines, or in similar application domains.

#### MAIN PRODUCTS/SERVICES:

Comarp develops and produces items on customer drawing and our design.

Its specializations are:

- Design and development
- Technical articles in rubber and plastic
- Assembly of mechanical groups
- Shearing
- Boring



- Gear Tothing
- Grinding
- Turning
- Milling
- Hard facing process with chromo oxide, carbide process
- Steel cages for ball and roller bearings
- Creep feed on hardened steel

### **Subcontracting - High precision manufacturing technologies for energy production systems**

#### **DETAILED DESCRIPTION:**

The consortium is looking for partners interested in the integration of know-how and production capacity offered in their products or in built-to-print solutions, most suitable for energy production systems, in particular for wind turbines or similar devices.

#### **MAIN ADVANTADGES / BENEFITS:**

The consortium manages the whole production cycle, including design, quality assurance and after sales assistance at central level, through a dedicated team of highly skilled professionals and an IT collaborative platform, allowing partners and clients to take advantage at the same time of the flexibility of small companies participating (10 employees on average) and of the critical mass of resources and competencies needed to carry out complex projects.

#### **TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Pooling the competencies of their 12 partnering companies, that have over 30 years experience in traditional and advanced machining (shearing, boring, grinding, turning, milling, creep feeding), materials (metal, rubber, plastic, etc.) and surface treatment, they offer manufacturing capacity for the production and assembly of high precision, high performance gears, transmission shafts and parts for rotating unions. They have developed inter alia a novel tothing gear process that allows thousandth-precision machining and high quality level of the finished surface in a single pass, thanks to a particular amendment of the involute. Shafts and other parts for rotating unions are processed by specific coating technologies and treatments featuring wear resistant surfaces and conductive layers for electrical transmission. The quality level of coating treatments employed in this is tested in internal laboratories measuring the Micro Vickers Hardness, the coating density ratio and thickness of the covering.

#### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

The ideal partner should be interested in evaluating the technology and processes offered, in view of reaching possible subcontracting or co-contracting agreements, current or perspective.

## CONSORZIO ARCA

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Address	PIAZZA MARINA 61 90133 - PALERMO	Italy
Phone	0039 091 6615611	
Email	info@consorzioarca.it	
www	www.consorzioarca.it	
Organisation Type	Other	

### Contact Person

Name	<b>Fabio Montagnino</b>
Position	Responsible of ARCA incubator

Areas of activity	Type of co-operation	
» Eco-design and eco-compatible materials	Licence agreement	»
» Treatment of wastewater and water for domestic consumptions	Technical Co-operation	» Offer
» Techniques for the re-use of water	Technological Co-operation	» Offer
» Sustainable mobility electric vehicles	Joint research project	» Request
» Biomass, bio-gas	Manufacturing agreement	» Request
» Solar energy	Commercial agreement	» Request
» Wind energy	Financial agreement	»
» Geothermal energy		
» Energy saving and efficiency		
» Building materials		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

As a business incubator, ARCA intends to be an instrument of economic development able to accelerate the growing and the success of business ideas by means of a structured group of resources and services. Therefore the main goal of the incubator is to generate successful companies, that are able to go out from the support program with autonomy and financial solidity.

ARCA as a no-profit Consortium has been set up in 2003 and has managed funds from the Ministry of Economic Development for generating spin-off companies from research.

#### FIELD OF ACTIVITIES:

The access to the ARCA Incubator is reserved to the new companies with a high technological profile that are proposed both by academic groups and external subjects which are interested to develop relationships with the research centres of the athenaeum.

The admission to the services of the Incubator is conditioned to the evaluation of the analytical business plan of the initiative by the Board of Directors of the Consortium.

So far more than 25 innovative companies have been admitted to ARCA and have been hosted at ARCA premises.





**MAIN PRODUCTS/SERVICES:**

ARCA applies an integrated approach to the creation of companies that is based on the best experiences performed by the international context of the Incubator Forum, the Pan-European network of the academic incubators wanted by the European Commission. The hospitality in equipped spaces is offered together with an articulated system of support services that ranges from the assistance to the strategic planning to marketing support and administrative and tax consulting.

The new companies are supported with a temporary management approach by senior entrepreneurs who, with their field experience, can help to deal with the snares of the market in the most delicate phase of their existence.

**TECHNOLOGIES:**

The Incubator is articulated around an open-space that houses the staff of the consultants and the tutors of the companies. The wish is to promote the full integration between the hosted companies and the support staff that will have to cooperate closely for the success of the new business initiative. A large zone is dedicated to the training activities and the meetings. This area can be divided in different sections thanks to mobile walls in order to host different work groups at the same time. The companies are installed in independent furnished modules, equipped with personal computers linked to the academic network services provided by the University IT Centre.

Modern laboratories have been recently added to the original module, to enable ARCA's companies to offer advanced technological services to customers and partners in the field of mechanical prototypes design, electronics and IT laboratories.

The kind of service which is provided in these technology labs concerns the support to product design and choices of industrialization techniques

**Distribution - need to develop external business relationships**

DETAILED DESCRIPTION: need to develop new market channels for the companies supported by the Incubator

MAIN ADVANTAGES / BENEFITS: to enable innovative SMEs to offer on a European market the technologies developed within the university incubator

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

The main fields in which ARCA incubator and its network are active are:

- ecodesign
- advanced techniques for monitoring and restoration of sensible areas altered by human activities
- integrated solutions for renewable energy production and energy saving (solar energy, geothermal, wind energy micro and mini power units, LED,..)

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

The companies hosted by the incubator may offer technical skills and advanced technological solutions. They look for distributors and suppliers to set up business agreements and technical partnerships.

**Investment - need to contact investors focused on start-up entrepreneurial activities**

DETAILED DESCRIPTION: we are looking for financing to support the industrialization phase of our start-up companies

MAIN ADVANTAGES / BENEFITS: venture capital is a great chance for our start-up companies to grow up and become competitive on larger markets

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: business angels, venture capitalists, industrial partners

## CONSORZIO I.C.A.

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Address	DRAGONI 114 47122 - FORLI'	<b>Italy</b>
Phone	0543 781705	
Email	info@consorzioica.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>ISABELLA ANNA MARIA LOZITO</b>
Position	COORDINATOR

Areas of activity	Type of co-operation	
» Sustainable mobility electric vehicles	Licence agreement	»
» Biomass, bio-gas	Technical Co-operation	» Offer
» Solar energy	Technological Co-operation	»
» Building materials	Joint research project	»
» Heating equipments	Manufacturing agreement	»
» Control/metering equipments for heating in buildings	Commercial agreement	» Offer
» Other Energy topics	Financial agreement	»

### Short description of company

#### ORGANISATION HYSTORY/EXPERIENCE:

I.C.A. (Syndicated Firms for Environment, Agriculture and Industry) was born in 2007 and it is formed by 18 Italian Firms placed in Emilia Romagna region. These firms avail themselves of a technical backup such as: engineers, architects, surveyors, geologists.

I.C.A. promotes the employment and the research of sustainable and alternative energy roots to benefit a good economy about environmental and territorial profile.

To reach these aims I.C.A. offers its consulting services, plannings and in some cases management and enterprise culture services.

#### FIELD OF ACTIVITIES:

I.C.A.'s activities are:

Establishment of agro-bio-energy dies to produce agricultural and forest growings which give over the transformation in sustainable energy or over the placing of biochemical industry in the die;

Conversion and marketing of agricultural and forest products to produce thermic and electrical energy;

Achievement, running, purchase and hiring of sustainable energy production systems to produce bio-fuel, windpower, hydroelectric and photovoltaic systems;

Employment of sustainable energy for everybody who decide to test these new bio-processes;

Planning and achievement of house, industry and trade buildings by bio-constructions such as "Passive House".



**MAIN PRODUCTS/SERVICES**

I.C.A. made, with great satisfaction its first “Passive House” (a high bio-technologic house) in its area, a lot of bulding renovations, and photovoltaic systems.

**Services - MPlanning, consultancy, electric vehicles trade.**

**DETAILED DESCRIPTION:**

Planning, consultancy, electric vehicles trade.

I.C.A.'s activities are:

Establishment of agro-bio-energy dies to produce agricultural and forest growings which give over the transformation in sustainable energy or over the placing of biochemical industry in the die;

Conversion and marketing of agricultural and forest products to produce thermic and electrical energy;

Achievement, running, purchase and hiring of sustainable energy production systems to produce bio-fuel, windpower, hydroelectric and photovoltaic systems;

Employment of sustainable energy for everybody who decide to test these new bio-processes;

Planning and achievement of house, indusy and trade buildings by bio-constructions such as “Passive House”.

**MAIN ADVANTADGES / BENEFITS:**

Energy saving, sustainable systems, and so on.

**TECHNICAL SPECIFICATIONS (The compilation of this field it’s strongly suggested):**

I.C.A.'s team has a good backup which is formed by trained people such as: engineers, architects, surveyors and it is well set up of placed to show its activities.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

I.C.A. looks for people interested in its bio-technical products and above all in its new modern activities.

## Consorzio Stabile IWR - Integrated Waste Recycling

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Address	via Comina 39 20038 - SEREGNO	<b>Italy</b>
Phone	+39036227511	
Email	stef.camp@iol.it	
www	www.iwrgroup.it	
Organisation Type	Company	

### Contact Person

Name	<b>Stefano Campagna</b>
Position	Business Developer

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste treatment - plants and technologies	Technical Co-operation » Offer
» Waste selection and recycling	Technological Co-operation »
» Energy from waste and biomass	Joint research project » Offer
» Wastes processing and their utilization as secondary raw materials	Manufacturing agreement »
» Biomass, bio-gas	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

IWR is an integrated system, realised by different Italian companies, manufacturers of specific equipments for the treatment and valorisation of waste, which offer all their skills, experience, know-how and support in the site realisation.

FIELD OF ACTIVITIES: Waste treatment

MAIN PRODUCTS/SERVICES: IWR project able to treat any kind of waste

TECHNOLOGIES: Owner technologies with mechanical treatment

### Manufacturing - We are supplier of Multipurpose plant for waste treatment

Our proposal is to create a multipurpose plant for the treatment of waste with eco-compatible processes and innovative solutions for the reduction of gas emission and the creation of ways of life which have low environmental impact.

MAIN ADVANTAGES/BENEFITS: Landfill reduction, no emissions, raw materials recovery, energy production

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): Mechanical treatments and no burning systems

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Municipalities, private companies, authorities involved in waste treatment



## Convert Italia S.p.A.

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Address	Via Paolo Di Dono 3/A 00142 - Rome	<b>Italy</b>
Phone	+39 06 51 06 11	
Email	udidio@convertitalia.com	
www	www.convertitalia.com	
Organisation Type	Company	

### Contact Person

Name	<b>Ugo Di Dio</b>
Position	Manager

Areas of activity	Type of co-operation	
» Energy from waste and biomass	Licence agreement	»
» Solar energy	Technical Co-operation	» Offer/Request
» Wind energy	Technological Co-operation	» Offer/Request
» Energy saving and efficiency	Joint research project	»
» Energy conversion	Manufacturing agreement	» Request
	Commercial agreement	» Request
	Financial agreement	»

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** The experience acquired in nearly 30 years of market presence brings Convert Italia S.p.A. to an industry leader position in our core business: Energy.

The know-how and customer-driven policy, the high technological and engineering levels, the high-quality, reliable and ecological products and systems for the efficiency have always been converted into safe, custom, cost-effective and turnkey solutions.

Convert Italia S.p.A. was founded in 1981 as a process plant engineering company, whose professional commitment was mainly focused on electrical process plant engineering market.

**FIELD OF ACTIVITIES:** Photovoltaic, Energy saving and efficiency solution

**MAIN PRODUCTS:** Single axis tracker for photovoltaic application, Supervisor system for energy system

**MAIN SERVICES:** Turnkey grid-connected PV plants, cogeneration plant from vegetable oil and other solutions for efficiency system; large scale industrial/commercial roof-mounted PV plants; EPC contracting for large scale PV plants and solar parks; O&M contracting for large scale PV plants, cogeneration plant from vegetable oil; Energy service for industrial/commercial customer.

**TECHNOLOGIES:** Photovoltaics; Energy from liquid biofuels; Professional Software.





### Supplier - Single Axis Tracker for large sized photovoltaic systems plants

DETAILED DESCRIPTION: Single axis tracker for large sized photovoltaic system plants.

MAIN ADVANTADGES / BENEFITS: MX1 single axis tracker was developed and installed by Convert Italia SpA on their pv plants, it's a solutions able to produce up to 25% additional energy compared to fixed. The system is ideal to build top-notch large-sized photovoltaic installations. The structure was entirely designed and manufactured by Convert Italia SpA: solid poles on top of wich revolving module holders with a single string series of photovoltaic components are fitted; driving gear is linear, whereas the engine is controlled by an astronomic software system able to track the Sun all day long.

TECHNICAL SPECIFICATIONS: The main technical specifications are:

- up to 25% additional energy production compared to fixed
- independent from photovoltaic modules selction
- real time remote monitoring
- backtracking system (inverse shading control)
- full modularity
- best value for money

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: We are looking investors, EPC company, designers of PV plant.

### Supplier - PV plants real-time remote monitoring system for any type and size

DETAILED DESCRIPTION: PV Supervisor is a monitoring system for pv plants.

MAIN ADVANTADGES / BENEFITS:Pv Supervisor was developed by Convert Italia SpA thanks to the many years of experience gained in the field of large-sized photovoltaic plant bulding and operation. Thanks to PV Supervisor users remotely control the plant and check relevant performance data, as well as operate it carrying out controls and real-time tests. Convert Italia SpA comments and opinions about its plants with a view to reducing the number of inspections by its staff along with maintenance costs.

TECHNICAL SPECIFICATIONS: The main technical specifications are:

- Data gathering (evironmental, energy production and instant power)
- Parameters monitoring (status/alarms/settings)
- Remote connection
- Real-time visual reports (failures or break-ins)
- Real - time profitability forecast under performance alarm, historical data comparison
- Display and tabulation of plant performance data in compliance with CEI EN 61724 standard
- Photovoltaic data measurement and collection
- Full data export to Excel format

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: We are looking investors, EPC company, and desingners or distributors of PV matirials.



## Cooperativa Sociale Agricola Ali Verdi

Page: **101**

Address	Via Prenestina 95 03010 - Piglio	<b>Italy</b>
Phone	3472635359	
Email	brigopaolo@gmail.com	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Paolo Brigo</b>
Position	

Areas of activity	Type of co-operation	
» Biomass, bio-gas	Licence agreement	»
	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	» Request
	Manufacturing agreement	» Request
	Commercial agreement	» Request
	Financial agreement	» Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Our cooperative was founded by the experience of five members in the following sectors:

- Cultivation of olive tree
- Maintenance of green
- Management and organization of a cooperative
- Social planning.

Our goal is to develop job opportunities in disadvantaged areas exploiting agricultural resources and environment of the region through:

- Innovation of production processes
- Marketing of organic products of high quality
- Integration with the productive sectors of energy from biomass

#### FIELD OF ACTIVITIES:

Agricultural

#### MAIN PRODUCTS/SERVICES:

Wood waste from pruning of olive trees and park maintenance, production and sale of organic olive oil and organic products in general

#### TECHNOLOGIES:

Tractor



Milling  
 Shredder  
 Bio-shredder

**Supplier - Find technical and financial partners to develop a biomass power plant near the town of Piglio (FR)**

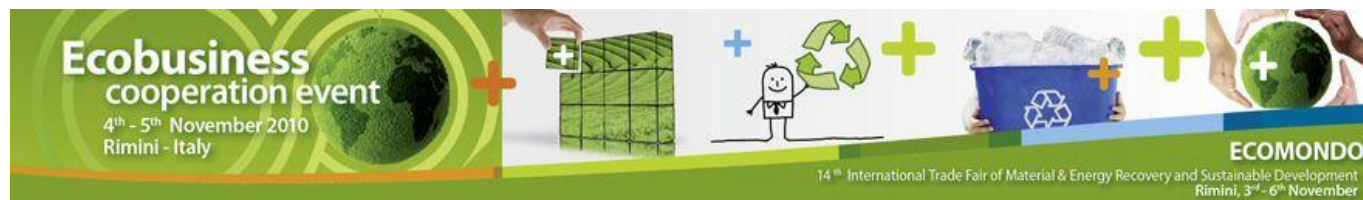
**DETAILED DESCRIPTION:**

The Cooperative Ali Verdi aims to develop the production and sale of biomass derived from processing of agricultural land and the maintenance of public and private green areas in the territory of Piglio (FR) and neighboring municipalities. The ability to create a local market for such products is the development of technologies that permit the plant biomass of medium-sized (under 500 kw) and the development of small local networks powered by bioenergy. The Cooperative Ali Verdi is located in a mountainous area and mainly agricultural. This location allows supply of high quality biomass and low costs due to reduced incidence of transport costs. The technical and financial partners we seek should help us design and fund a biomass plant of medium size that will be powered by biomass produced by Cooperative Ali Verdi and local farmers, allowing the development of the sector and the economic development of the territory.

**MAIN ADVANTADGES / BENEFITS:**

Biomass availability of high quality, low cost // No other facilities within 30 km //Collaboration of local institutions

**TECHNICAL SPECIFICATIONS** Technical specifications of the wood chips produced: **SOURCE:** Woody Biomass uncontaminated **DIMENSIONS:** P45 **WATER CONTENT:** M30



## corme srl

Page: **103**

Address	via pietramarina 42 b /c 50059 - sovigliana	<b>Italy</b>
Phone	0571508660	
Email	info@corme.it	
www	corme.it	
Organisation Type	Company	

### Contact Person

Name	<b>IVANO PIVATO</b>
Position	COMMERCIAL RESP.

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Sewage facilities	Technical Co-operation »
» Sewage services	Technological Co-operation »
» Other	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

ORGANISATION HISTORY/EXPERIENCE:  
see Our company profile on the website [www.corme.it](http://www.corme.it)

FIELD OF ACTIVITIES:  
waste treatment /

MAIN PRODUCTS/SERVICES:  
air depuration plants

TECHNOLOGIES:  
sleeves filter , centr. fan , complete plant of depurations

### Distribution - we desire found new commercial joint venture

seek new partnerships to promote our facilities in different countries.  
Our systems are delivered turnkey, then designed, manufactured and assembled. maggiori details and specifications you will find our site [www.corme.it](http://www.corme.it)

## Corrado Chiappetta

Page: **104**

Address	Via G. Parini 4 87036 - Rende	<b>Italy</b>
Phone	+39 340 5792072	
Email	corradochiappetta@gmail.com	
www		
Organisation Type	Other	

### Contact Person

Name	<b>Corrado Chiappetta</b>
Position	Inventor

Areas of activity	Type of co-operation	
» Waste collection	Licence agreement	» Offer
» Waste treatment - plants and technologies	Technical Co-operation	»
	Technological Co-operation	» Offer
	Joint research project	» Offer
	Manufacturing agreement	» Offer
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** An italian inventor has a technology for the treatment of apartment building waste protected by international patent request.

**FIELD OF ACTIVITIES:** Waste collection and treatment

**TECHNOLOGIES:** Mini ecological plants for the urban solid waste treatment and salvage.

### Services - Innovative separate collection of rubbish for apartment buildings

#### DETAILED DESCRIPTION:

Mini ecological plants for the urban solid waste treatment and salvage. The solution allows to weigh the waste loading thus motivating the separate collection of rubbish in apartment buildings, communities, holiday camps

#### MAIN ADVANTAGES / BENEFITS:

Reuse and exploitation of ground and compacted waste (paper, glass, plastic, aluminium, wet waste). 50% reduction of TARSU, according to the taxation regulations.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

The product weighs the raw material and motivates to the separate collection of rubbish, being able to quantify the distribution of the economic benefits.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Investor for the pre-competitive development of the product. It is offered the licence contract of the patent.





## COSMO AMBIENTE SRL

Page: 105

Address	VIA FELTRIN 125 30033 - NOALE	Italy
Phone	0415801616	
Email	info@cosmogruppo.it	
www	www.cosmogruppo.it	
Organisation Type	Company	

### Contact Person

Name	<b>FRANCESCO VALORI</b>
Position	

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste collection	Technical Co-operation	» Offer/Request
» Waste storage and transport	Technological Co-operation	» Offer/Request
» Waste treatment - plants and technologies	Joint research project	»
» Waste selection and recycling	Manufacturing agreement	»
» End products made with salvaged material	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The Gruppo Cosmo, ISO 9000 and 14000 certified company, operates actively in the maintenance and preservation of the areas with vehicles and purpose-built machinery, since 1960.

#### FIELD OF ACTIVITIES:

Leader in the recovery of waste (such as inert hailing from the materials demolition, excavation and industrial processes that are reused through technological treatment), in the field of infrastructure, building and road construction, the company has an authorized facility for recovery of hazardous waste.

Cosmo Ambiente also operates actively in environment maintaining and safeguarding through remediation of subsoil

#### MAIN PRODUCTS/SERVICES:

The authorized area measures 60,000 square meters of which 13,000 are covered, within which all treatment operations are performed for the production of certified products such as raw materials and aggregates, through utilization of waste and raw materials (such as sand, stabilized, lime), cement and cement mixtures.

Modular cinder blocks are made by recycled material and industrial waste; they are free from bases that could prevent or limit contained in material charging.



**TECHNOLOGIES:**

Storage, sorting, grading and crushing of inert waste; Selection and sorting of waste with volume adjustment; Technological production of modular cinder blocks; Soil washing system; Soil drying system; Alternative Energy powered by photovoltaic system.

**Services - Waste reception and sale of secondary raw materials**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

We are looking for companies that need to recover wastes.

We need also the collaboration of companies that can receive waste we cannot treat, or companies that need supply of secondary raw materials.

## Costruzioni Solari

Page: **107**

Address	zona P.I.P. 73020 - Cavallino	<b>Italy</b>
Phone	+39 0832 612626	
Email	c.s@costruzionisolari.it	
www	www.costruzionisolari.it/2010/	
Organisation Type	Company	

### Contact Person

Name	<b>Ilaria Leone</b>
Position	Export Specialist

Areas of activity	Type of co-operation
» Biomass, bio-gas	Licence agreement »
» Solar energy	Technical Co-operation » Offer
» Energy saving and efficiency	Technological Co-operation » Offer
» Thermal disposals	Joint research project »
» Heating equipments	Manufacturing agreement »
» Control/metering equipments for heating in buildings	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Costruzioni Solari has been working in the field of solar energy since 1979. It's always been making research and experimentations to find the most functional and cheapest ways to exploit solar energy.

The increasing success achieved in this field witnesses the reliability and durability of its products.

Many works have been carried out: small installations for domestic use, big-size installations for campings, hotels, swimming pools, building complexes, factories, both in Italy and abroad.

#### FIELD OF ACTIVITIES:

Research, design and manufacture of solar thermal equipments.

Distribution and installation is made throughout Europe, South America, Arab Emirates mainly.

#### MAIN PRODUCTS/SERVICES:

Thermal solar Flat plate collectors , Storage tanks Natural or Forced Circulation Systems, Solar Sytems, Hydronic systems , Automatic filling set.

Also customized plants to exploit integrated biomass, solar thermal and photovoltaic energy are designed and installed.

#### TECHNOLOGIES:

Nanotechnological materials are used to improve the solar thermal products' efficiency



**Supplier - A wide range of innovative solar thermal devices applying nanotechnologies, e.g. SUPERSLIM®, the thinnest solar thermal collector nowadays available**

The company has realized an ultraflat plate thermal solar collector (SUPERSLIM). It is an innovative product in its field, resulting from a longterm research, at the end of a series of innovations in nanotechnological materials and construction techniques. That's what assures high efficiency and guaranteed durability.

**MAIN ADVANTADGES / BENEFITS:**

The extraordinary thinness of the thermal solar collector, only 45 mm, allows its installation beside solar PV panels and, at the same time, the respect of any aesthetic requirement. SUPERSLIM is the satisfactory answer to landscape needs and legal constraints, because of its perfect integration even among roof tiles.

**TECHNICAL SPECIFICATIONS:**

- 2 layers of a nanotechnological material, whose thermal conductivity is 0.014W/m K
- Selective film for the capturing plate with absorbance of 90% and emissivity of 5%
- Case made of a phosphated steel sheet, resistant to the most aggressive atmospheric actions
- Double extra-clear covering glass, 3.2 mm thick and > 95% trasmittant.
- Sizes of SUPERSLIM panel are 1640x947x45mm

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Companies distributing or installing solar thermal technologies are sought for commercial agreements. Also, technical cooperation with solar thermal technology users to adapt the product to their requirements is envisaged.

**Supplier - Integrated renewable and non-renewable energy management systems, e.g. CLIMA Solar System®, allowing energetic autonomy by a smart case**

**DETAILED DESCRIPTION:**

The company has realized a wide family of models to manage the energy output from an energy plant exploiting various sources: solar panels, boilers and burners (feeded by both fossil fuels and natural gas). They can select the most efficient energy source available given the environmental conditions and user needs. The CLIMA TOTAL model, being integrated with a heat pump, allows to avoid the use of fossil fuels for environment heating during winter months and chilled water for environmental air conditioning in summer. In addition, it allows to produce domestic hot water all over the year.

**MAIN ADVANTADGES / BENEFITS:** CLIMA SOLAR SYSTEM can increase the efficiency of an energy production plant based on different energy sources, also preventing the energy dispersion.

**TECHNICAL SPECIFICATIONS:**

SOLAR SYSTEM CLIMA includes:

- Boiler ranging from 600 to 1500 liters;
- Heat Pump for the winter integration and for the production of chilled water in summer;
- Complete control and management Station (variable speed circulator, mixing motorized valve, electronic controls, temperature and humidity probes; automatic Filling and Control Group; Combined Work with zone valves and thermostat in the integration circuit; electronic digital Controller; electric Wiring)

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** The company can cooperate with manufacturers of energy plants using several sources interested in adapting the product to their requirements.

## C.R.M.P. Centro Riparazione Materie Plastiche/Center for plastic material repair

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Address	Via Tiburtina, 63 65129 - Pescara	<b>Italy</b>
Phone	+390854326804	
Email	info@centroriparazione.com	
www	www.centroriparazione.com , www.eco-repair.it	
Organisation Type	Company	

Contact Person	
Name	<b>Onofrio Antonio Totaro</b>
Position	Owner

Areas of activity	Type of co-operation	
» Waste selection and recycling	Licence agreement	»
	Technical Co-operation	» Offer
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	» Offer
	Commercial agreement	» Offer
	Financial agreement	» Request

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Born in April 2008, the “Centro Riparazione Materie Plastiche – Center for plastic material repair (C.R.M.P.)” firm, thanks to its innovative patent concerning the machinery, which permits, together with an adequate blending of polymer and/or co-polymer and through a temperature accelerator, the welding of plastic objects and therefore the assembly and repair, and thanks to its owner ten year experience in the field of plastics, has oriented its main activities to the repair and, consequently, reuse of some typologies of items made of plastic as: bins used in agriculture, bins for urban waste, tanks and soon even bumpers.</p> <p><b>FIELD OF ACTIVITIES:</b> Through the innovative and particular plastic-materials techniques of repair, C.R.M.P. works in the field of prevention from plastic waste production throughout the total functionality recovery of broken (and thus not utilisable) plastic items. In this way, it also allows the reduction of the consumption of energy needed for the production on the new items, thanks to the innovative technology of hot weld of plastic.</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Thanks to the innovative technology, C.R.M.P. At today can repair almost all the typologies of plastic items, nevertheless it has decided to concentrate on some specific categories relevant for the environment as bins for the agriculture and bins for urban waste. Since today, in fact, these items could not be repaired, thus, once broken, they were abandoned somewhere or grounded in order to obtain secondary raw materials, with a high negative impact for the environment, in the former case, and an higher energy consumption in the latter one. Moreover, this innovative technology will permit a lengthening of the life cycle of these items, allowing more</p>





usage cycles and then a less production of special wastes and a less energy consumption for the productions of the new ones.

**TECHNOLOGIES:**

The technology, used and patented by C.R.M.P. is related to the machinery, to the composition of the blend materials for the welding as well as to the process of preparation of the items to be repaired and to the operative process through which it is possible to weld and thus to assembly, repair and hot fill of plastic materials.

**Investment -**

**DETAILED DESCRIPTION:**

The project proposals consists in the development of a network of enterprises in Italy (and then in Europe), allowing the satisfaction of the market needs and ensuring at the same time high operative and logistic efficiency, through a wide presence. At today the technology is applied to: bins for the agriculture and bins for urban waste, tanks, and any other objects made of polyethylene (PEHD, PELD) or polipropylene (PP). Moreover, studies and experimentations for blending and welding materials for bumpers and other plastic materials (ABS, PET, etc.) are still going on in order to lead towards a BtoC logic.

**MAIN ADVANTADGES / BENEFITS:**

The concerned market is totally new thus really beneficial for operators that will decide to join the initiative in Italy (and after in Europe). Moreover, the aim of prevention and re-use of plastic special wastes makes this activity extremely beneficial even for the environment and this is the reason why the initiative involves local institutions, due to the general interest of the action itself.

**TECHNICAL SPECIFICATIONS (The compilation of this field its strongly suggested):**

For the implementation of a centre of plastic material repair, particular technical requisites are not required. Anyway, it is important that the centre is located in an easily reachable site, with transport infrastructures in the nearby, with an area of 300 m2 for the workshop and quite 2.000 m2 forecourt for storage.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Handicraft, transport firms, operators for waste treatment or collecting...

## CURTI Costruzioni Meccaniche S.p.A.

Page: **111**

Address	via Emilia Ponente 750 48014 - Castel Bolognese (BO)	<b>Italy</b>
Phone	+39059375411	
Email	info@curtienergia.it	
www	www.curtienergia.it	
Organisation Type	Other	

### Contact Person

Name	<b>Ylenia Loschiavo</b>
Position	

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	»
» Saving water in intensive industrial manufacturing	Technical Co-operation	» Offer/Request
» Cooling and ventilation equipment	Technological Co-operation	» Offer/Request
» Other	Joint research project	»
» Energy from waste and biomass	Manufacturing agreement	» Offer/Request
» Wastes processing and their utilization as secondary raw materials	Commercial agreement	» Offer/Request
» Biomass, bio-gas	Financial agreement	»
» Energy saving and efficiency		
» Thermal disposals		
» Energy conversion		
» Secondary fuels		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

“Curti energia” is a branch of “CURTI costruzioni meccaniche SpA”, leader in in packaging, robotics and assembly . The energy branch was created in 2006 by a technical staff with more than 30 years experience in energy saving, emissions treatment and energy production from renewable fuels.

#### FIELD OF ACTIVITIES:

energy recovery, emissions treatment, CHP (combined heat and power) plants, waste treatment, filtration

#### MAIN PRODUCTS/SERVICES:

engineering and execution of different types of plant as CHP (combined heat and power), waste treatment, gasification, energy production from biomass, high temperature filtration, energy recovery, energy conversion

#### TECHNOLOGIES:

CHP plants using gas turbine or internal combustion engine with different types of fuel  
air filters working at high temperatures (500°C)  
energy recovery



heat exchangers working at very high temperatures (1000 °C)  
landfill leakage treatment

### **Consulting - thermal energy recovery and electrical energy production**

**DETAILED DESCRIPTION:**

pyrolysis and gasification process, energy recovery

**MAIN ADVANTAGES / BENEFITS:**

thermal energy recovery from waste gases that otherwise would be wasted

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

CHP plant from 50 kW to 6-7 MW

thermal energy recovery at high temperature

air and gases filtration system at high temperatures

reuse of waste gases

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

technological and commercial partner interested in developing new technologies in energy production and recovery field

## DE MARE S.R.L.

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Address	VIA MARIO PAGANO, 1 85047 - MOLITERNO	<b>Italy</b>
Phone	+39/097564003 - 64455	
Email	info@demare.it	
www	www.demare.it	
Organisation Type	Company	

### Contact Person

Name	<b>FAUSTO DE MARE</b>
Position	DIRECTOR AND LEGAL REPRESENTATIVE

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste storage and transport	Technical Co-operation	» Offer
	Technological Co-operation	» Offer
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

In 1977 De Mare srl was funded with the aim to deal mainly with the regional distribution of insulation and waterproofing.

In the early 80's; the company carried out mostly promotional work of thermal and acoustic insulation, designed to meet the growing demand for living comfort (hot-cold-noise), working with technical studies and business operators.

Until the late 80's; the company's mission was primarily to distribute and put in place throughout the country (applying to the creation of teams of installers) insulation and waterproofing materials.

Since the early 90's; the business mission of company becomes more complex and focused on waterproofing specialist landfills for MSW (Municipal Solid Waste), SR (Special Waste), ponds, canals and river carried out through the implementation of waterproofing package consisting of geosynthetic (geomembrane HDPE / LDPE, geosynthetic clay liners, geosynthetic function filter-drainage-protection, geotextiles, biomats etc).

#### FIELD OF ACTIVITIES:

The De Mare S.r.l. is a business leader in the waterproofing sector, specialized in geosynthetics supply and installation, including:

- Geomembranes HDPE / LDPE / LDPE reinforced;
- Geosynthetic Clay;
- geocomposites with filter-drainage-protection function;
- Woven - Nonwoven Geotextiles



- geonets;
- Geostuioie.

### Supplier - Waterproofing: designing, implementing, testing and certification

#### DETAILED DESCRIPTION:

The company offers its expertises in designing, implementing, testing and certification Waterproofing solution.

The company is specialized in designing, implementing, testing and certification:

- Waterproofing for MSW landfills, Special / Industrial Waste;
- Waterproofing of reservoirs;
- Waterproofing of reservoirs / tanks in CLS;
- Waterproofing yards;
- Construction of Capping, drainage of contaminated sites.

Furthermore the company is interested in assessing new innovative solutions on the waterproofing sector for increasing its portfolio.

#### MAIN ADVANTADGES / BENEFITS:

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

- public/private waste disposal site management companies
- companies involved in the waterproffing fields
- companies involved in the waste collection activities
- Technologies developer

The company is higly interested in establishing international collaborations with companies coming and acted in the Balkan countries.



## Dealer Tecno s.r.l.

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Address	Via S.Fermina 11 00053 - Civitavecchia	<b>Italy</b>
Phone	0766220564	
Email	info@dealertecno.com	
www	www.dealertecno.com	
Organisation Type	Company	

### Contact Person

Name	<b>Stefano Onofri</b>
Position	General Manager

Areas of activity	Type of co-operation	
» Wind energy	Licence agreement	» Offer
	Technical Co-operation	» Offer
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	» Offer

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Dealer Tecno Srl is a small and innovative company founded in 2008 and specialized in research and application of innovative products in the field of the alternative energies. They designed and implemented a prototype wind generator "vertical" with an innovative technology called Xeolo. This prototype was awarded by the European Commission under the Sustainable Energy Europe Campaign 2008-2012 and it currently represents their "core business".

The development of the project "Xeolo", is still in an evolutionary phase, being continuously implemented through a series of improvements likely to maximize the potential of the product, which can provide 6KW steady to the size of 20 KW.

#### FIELD OF ACTIVITIES:

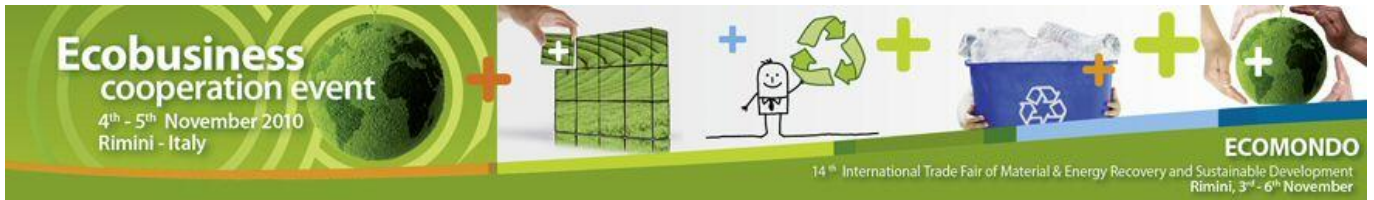
Research and application of innovative products in the field of the alternative energies

#### MAIN PRODUCTS/SERVICES:

Design, Construction and development of the wind turbines VAWT called "Xeolo"

#### TECHNOLOGIES:

The technology completed functional tests in wind tunnels at the Milan Polytechnic and the turbine were tested up to 40 m / sec and the results confirmed and validated the value of this patented innovative profile. The catalogue equipment was completed with a solution for easy installation at altitude or sites where access to means of lifting is inaccessible.



Type of co-operation

- Licensing (offers)
- Marketing and distribution agreements (offers)

Areas of activity

- Alternative energy
- Renewable energy

**Export - Looking for international partners who share our passion for the environment and innovation**

DETAILED DESCRIPTION:

They are seeking to partners interested in distributing their turbines "Xeolo". They are also interested in companies for license production.

MAIN ADVANTADGES / BENEFITS:

By creating a network of contacts both in Italy and worldwide, as well as an appropriate distribution, they would be able to export a high-technology product, intrinsically safe, with an attractive design "made in Italy"

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Innovation is the result of three years of study and research, with the achievement of excellent results, The deficit of historical monitoring for the turbines in case of strong winds had finally been solved, because "Xeolo" is inherently secure as running at 60 rpm maximum.

These features have been recognized at international level.

Xeolo is a product unique in the world, with its vertical axis provides a supply of 6 kW / h.

The company has been Official Partner of EEA in Italy under the aegis of the Ministry of Environment.

Certification by RINA - IQNET – ISO 9001-2008 for design and construction of wind turbines vertical axis in accordance with UNI EN 61400-2.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

They are currently looking for primary foreign companies for developing, commercialising and distributing their products all over the world. They are also looking for primary companies interested in purchasing a stake of their "know how" in a Joint venture partnership.



## Department of Agriculture and Environmental Sciences - University of Udine

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Address	Via delle Scienze 208 33100 - Udine	Italy
Phone	+39.0432.558643	
Email	marco.contin@uniud.it	
www		
Organisation Type	University	

### Contact Person

Name	<b>Marco Contin</b>
Position	Scientist

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Offer
» Waste storage and transport	Technical Co-operation	» Offer
» Waste treatment - plants and technologies	Technological Co-operation	» Request
» Treatment and disposal of the resultant sludge	Joint research project	» Request
	Manufacturing agreement	»
	Commercial agreement	» Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

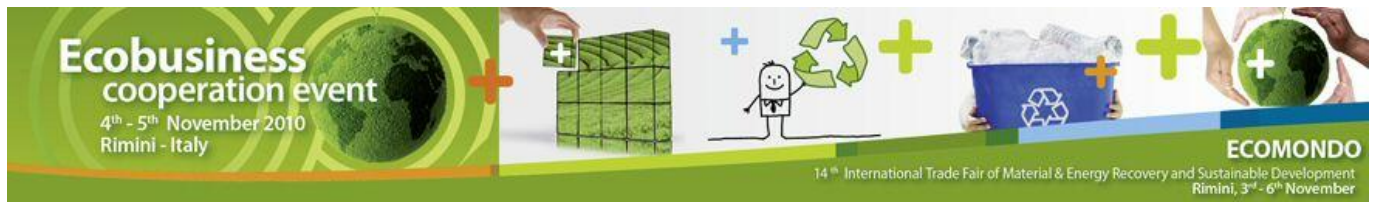
The Department of Agriculture and Environmental Sciences (DiSAA) belongs to the Faculty of Agriculture - University of Udine (Italy). Research carried out in the department is organized into the following sections: Agricultural Engineering, Agronomy & Field Crops, Ecology, Plant and Soil Biochemistry, Plant Genetics and Breeding, Pomology and Viticulture. Each Section has its own labs, but co-operation between sections is very common and exchanges at any level are encouraged.

The Soil Chemistry group is involved in projects focusing on the dynamics of soil organic matter and factors affecting biological activity of soil. We also participated in research projects that required monitoring of chemical and biochemical parameters for the optimization of composting processes.

Research facilities include analytical laboratories equipped with several gas chromatographs and HPLC instruments, light scattering, UV-vis and IR spectrophotometers, capillary electrophoresis, ICP, elemental analyser, ultrafiltration, ultracentrifuge, beta counter and PCR equipments, glasshouses and an experimental farm for field trials.

#### FIELD OF ACTIVITIES:

- compost quality assessment
- soil remediation
- composting of olive mill waste and depuration of olive mill waste waters
- redox control of decomposition processes



#### MAIN PRODUCTS/SERVICES:

- olive mill waste water depuration (patent)
- immobilization of heavy metals in soils and mine tailings
- certification of humic products
- elimination of bad smell during household storage of kitchen waste (patent pending)
- production of good quality organic fertilizer at household level (patent pending)

#### TECHNOLOGIES:

### Research - Elimination of bad smell from Kitchen waste

#### DETAILED DESCRIPTION:

Our recent findings have led us to develop a new preparation that could become a commercial product for a market of millions of potential costumers.

It eliminates formation of bad smelling volatile substances produced during storage of kitchen waste. This is a growing problem as the separate collection of the organic biodegradable fraction of urban solid waste that is being now implemented by most local administrations and is encouraged by the EU, often forces householders to keep organic waste in the bin for relatively long periods. Our preparation (patent pending) is cheap, easy to use and eliminates the formation of bad smells without interfering with subsequent composting treatments.

#### MAIN ADVANTADGES / BENEFITS:

The management of biodegradable waste must face at every level problems such as bad smells and proliferation of insects. Our preparation is extremely easy to use, low cost and effective. It prevents the formation of bad smells. It does not absorb, not cover or mask or dilute bad smelling substances, but does not allow them to be formed. It is not harmful for the environment and does not interfere with composting or biogas production.

#### TECHNICAL SPECIFICATIONS:

We have developed a preparation that helps to solve problems related with the release of bad smelling volatile substances and proliferation of insects from stored garbage, transport facilities, outdoor stocking.

No costly equipment, pumps and filters needed. Formulations can also be optimized according to type of waste and costumers needs.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

- commercial companies
- public or private waste management enterprises
- composting plants

### Research - Household production of organic fertilizer

#### DETAILED DESCRIPTION:

Our recent findings have led us to develop a preparation that could be used by gardeners to produce a complete organic fertilizer using kitchen and garden waste.

Composting of garden waste, even with addition of food waste does not yield a product of sufficient fertilizer value: compost is not an organic fertilizer, but only an amendament. This preparation also solve most of the common problems of composting, eliminating bad smells and proliferation of insects.



**MAIN ADVANTADGES / BENEFITS:** The management of biodegradable wastes must face at every level common problems such as bad smells and proliferation of insects. A great problem is production of large quantities of organic wastes and their disposal. Local authorities and the EU directives encourages recycling of biodegradable waste by compost production. Compost however has not encountered the favour of farmers because, among other things of its low fertilizer value. Household composting could reduce the amount of organic waste to be disposed of, but the process is slow because of nutrient imbalance and bad smells and insects development due to poor aeration. Our preparation solves all these problems and is extremely easy to use, low cost and effective and it is not harmful for the environment.

**TECHNICAL SPECIFICATIONS :** We have developed a preparation that help to increase the fertilizer value of composted garden and kitchen waste as well as solve problems related with the release of bad smelling volatile substances and proliferation of insects during composting. A good quality organic fertilizer is produced because increases the potential of macro and microelements. It facilities composting process because optimizes C/N index.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

- commercial companies
- public or private waste management enterprises
- composting plants





## Department of Engineering for Innovation - University of Salento

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Address	via per Arnesano 73100 - Lecce	<b>Italy</b>
Phone	+39 0832 297 754	
Email	teresa.donateo@unisalento.it	
www	www.dii.unisalento.it	
Organisation Type	University	

### Contact Person

Name	<b>Teresa Donateo</b>
Position	Assistant Professor

Areas of activity	Type of co-operation	
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Licence agreement	»
» Sustainable mobility electric vehicles	Technical Co-operation	» Offer
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility	Technological Co-operation	» Offer
	Joint research project	»
	Manufacturing agreement	» Offer
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The activity of the department of Engineering for Innovation at the University of Salento (UNISALENTO) is focused on the development and the diffusion of Innovative technologies

#### FIELD OF ACTIVITIES:

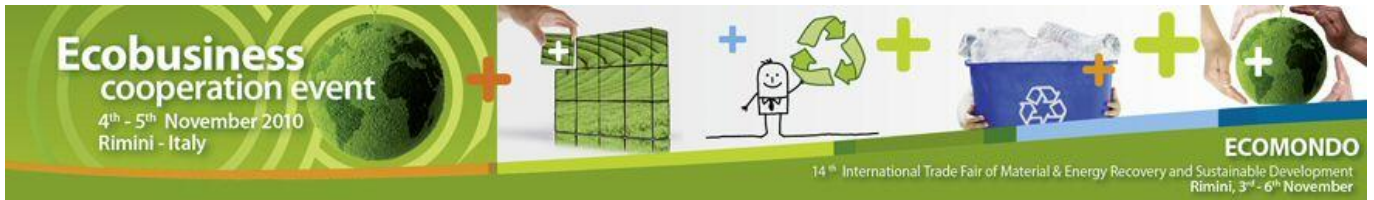
The research activity at the department ranges from industrial areas (energy systems, material technology, civil engineering, nanotechnologies, electrochemical processes, etc) to information and communication engineering (including also operating research, networks and telecommunications).

#### MAIN PRODUCTS/SERVICES:

professional training  
design aid  
project proposal  
consulting  
advanced modeling  
Analysis, characterization, testing and calibration services

#### TECHNOLOGIES:

simulation, test, optimization and control of diesel and spark ignition engines  
development and test of injection systems



simulation and testing of hybrid electric powertrains,  
simulation of industrial processes  
multi-objective optimization tools

## Research - Intelligent energy management of hybrid electric vehicles

### DETAILED DESCRIPTION:

The department, in collaboration with the Center for Automotive Research (CAR), at the Ohio State University, and with private companies, has carried out research activities on hybrid electric vehicles with internal combustion engines (ICE-HEV) or fuel cells (FC-HEV) for the development of city car prototypes (ITAN500) and of a push back hybrid tractor.

For hybrid electric vehicles with fuel cells (FC-HEV) energy management strategies have been developed and optimized with multi-objective genetic algorithm. Testing has been made on a small scale remote controlled prototype (H2VOLKS) obtained from the Wheeled Mobile Robot (WMR) Volksbot RT3. The power train of the prototype is based on a proton exchange membrane (PEM) fuel cell, a small hydrogen tank and a power split device.

Information and Communication Technologies have been applied for the optimization of the energy management of conventional, hybrid and electrical vehicles, so reducing their environmental impact. Vehicular communications have been used to predict driving conditions with the objective to determinate future power demand. The system developed allows to estimate future speed profile on board of a vehicle by gathering state messages from surrounding vehicles and/or infrastructure and by inputting them to a traffic simulator used as a predictor. The system has been validated by a simulation model which considers a number of vehicles moving on the road network of the University campus. The actual speed profile of a target vehicle has been compared with that estimated on board for a time window ranging from 1 s to 60 s. Simulation results have shown that, even if the time window is set to 60 s, the prediction error, in terms of the root mean square, is lower than 4 km/h. Afterwards, the system has been implemented on real vehicles and its functionalities have been tested in the campus road network.

The Italian researchers are now looking for hybrid vehicle manufacturers interested in field testing for the next exploitation of the technology.

### MAIN ADVANTADGES / BENEFITS:

- reduction of fuel consumption and emissions
- conversion of conventional vehicle to optimized hybrid electric vehicles
- intelligent vehicles able to adapt to their actual power request

### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

- development of power trains based on FC or ICE as fuel converter
- preliminary project of fully optimized power train vehicles based on their specific usage
- assessment of the actual potentiality of hybrid vehicles in reducing fuel consumption (and so CO2 emissions) in realistic urban scenarios.
- prediction of future driving conditions through inter-vehicular communication and GPS systems

### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

The partner sought is a hybrid vehicle manufacturer interested in the application of the technology for optimization purposes. He should cooperate for testing the technology in real traffic conditions.



## Department of Mechanics and Industrial Technologies - University of Firenze

Page: **122**

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Phone	+39.055.4796513	
Email	massimo.delogu@unifi.it	
www	www.dmti.unifi.it	
Organisation Type	University	

### Contact Person

Name	<b>Massimo Delogu</b>
Position	Researcher

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste collection	Technical Co-operation	» Offer
» Waste treatment - plants and technologies	Technological Co-operation	» Offer
» Waste selection and recycling	Joint research project	» Offer
» End products made with salvaged material	Manufacturing agreement	»
» Eco-design and eco-compatible materials	Commercial agreement	»
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Financial agreement	»
» Sustainable mobility electric vehicles		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The Department of Mechanics and Industrial Technologies (DMTI), which has 20 persons in its permanent staff (professors and researchers), and approximately 50 post doc and PhD students, has expertise in Design for "X" (Safety, Environment, Quality, Reliability,...) approaches applied to topics such as:

- Product and process development
- Sustainable mobility
- Road safety
- Workplace safety and health

DMTI has joined European projects on the topics above since the 3rd Framework Programme.

In addition, due to its participation in a large number of projects at international level also in the role of coordinator, DMTI has a great experience also in terms of project management and project dissemination.

#### FIELD OF ACTIVITIES:

- Automotive
- Machinery
- Packaging
- Broad consumption products and related technologies



**MAIN PRODUCTS/SERVICES:**

- Design
- Material characterization
- Modeling and simulation
- Process analysis and optimization
- Noise and vibration measurement
- Risk Assessment

**Research - EcoDesign and environmental impact assessment of products and technologies**

**DETAILED DESCRIPTION:**

Since 1995, the DMTI has devoted a special attention to environmental issues in the product design and development mainly in the following fields: Automotive, Electrical and Electronic Equipments (EEE), broad consumption products and related technologies. In this context, the research activity conducted in the last years within national and international collaborations and projects is focused on two parallel and integrated topics. The first one regards the application of EcoDesign principles and Life Cycle Assessment methodology (LCA), according to ISO 14040 standards, in order to characterize and improve the product and technologies eco-profile. The second topic concerns:

- the development of EcoDesign methodologies and tools finalized to design for disassembly, design for materials, design for recycling/reuse, including the study on separation methods and technologies and also the recycled materials application;
- the development of abridge Life Cycle Assessment (LCA) and Life Cycle Cost (LCC) approaches integrated with typical design instruments (i.e. CAD-LCA, CAD-LCA-LCC, etc.) and their implementation in user-friendly tools and simulation models addressed to designers, also not necessary experts on environmental issues.

**MAIN ADVANTADGES / BENEFITS:**

- Improvement of product quality
- Optimization of processes efficiency - cost and energy reduction
- Waste reduction and exploitation by means products reuse/recovery and materials recycling
- Complying with EU Regulations
- Environmental labeling and certification programs
- EC founding sources on environmental topic

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

- Life Cycle Assessment (LCA) and EcoDesign of product/technologies
- Development of methodologies and tools focused on:
  - Design for Materials
  - Design for End of Life (Design for Reuse, Recovery, Recycling, ...)
  - Design for Extension of Life (Design for Realiability, Maintainability, Serviceability, ...)
  - Design for Reduction of Energy Consumption
- Analysis of waste and EoL (End-of-Life) scenarios and technologies for products and materials according to EU directives and standards (ELV, WEEE, RoHS, ...)
- Design and technologies for sustainable mobility
- Training and didactic activities on EcoDesign/LCA methods and tools applied to industrial field

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Industries, research organizations and universities

## DESITA Srl

Page: **124**

Address	Corso Fratelli Cervi 178 47838 - Riccione	<b>Italy</b>
Phone	0541 1730529	
Email	info@ecoffee.it	
www	www.desita.it - www.ecoffee.it	
Organisation Type	Company	

### Contact Person

Name	<b>Norman Cescut</b>
Position	Owner

Areas of activity	Type of co-operation	
» Waste selection and recycling	Licence agreement	»
» Eco-design and eco-compatible materials	Technical Co-operation	» Offer/Request
» Cooling and ventilation equipment	Technological Co-operation	»
» Other	Joint research project	» Offer/Request
» Sustainable mobility electric vehicles	Manufacturing agreement	» Offer/Request
» Energy from waste and biomass	Commercial agreement	» Offer/Request
» Biomass, bio-gas	Financial agreement	» Request
» Solar energy		
» Wind energy		
» Water energy		
» Energy saving and efficiency		
» Building materials		
» Heating equipments		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

ECOFFEE is a sustainable project by DESITA.

ECOFFEE has been originated by the objective need and desire to create or reinforce consumer awareness, that even those smallest everyday gestures, like taking a coffee, can help to improve the quality of life of the individual, of the local community, of the nation and of the entire planet.

ECOFFEE mission is to actively contribute to the creation of business practices in the retail-food sector which are both environmentally and socially sustainable for responsible and profitable investments.

DESITA shop concept design & consulting is specialized in retail design, shop concepts design, retail branding, Franchising formats and refurbishing of retail environments.

DESITA mission is to develop unique retail project and strong relationship with our clients. Thanks to the international experiences, the spread of our network, the technical and logistic expertise throughout our branches, and the professionalism and resources on hand for all the trade fields, you can consider DESITA and its





Network your best retail partner.

DESITA engineering is a dedicate division for planning & developing special food display cabinets and counters, based on special request or needs.

SHOWFOOD is a branded division of DESITA.

SHOWFOOD is a professional catering equipment supplier.

The key strength comes from a combination of technical competences and deep knowledge both of the market and the client's needs.

SHOWFOOD offer a wide range of products for customers and companies related to the Ho.Re.Ca and F&B sectors.

All productuts are manufactured by Italian companies to assure quality, performance and design.

SHOWFOOD by DESITA is exclusive agent for the partner companies: Smeg, Emainox, DMMIX, Pro-Fondi,

FIELD OF ACTIVITIES:

Retail

MAIN PRODUCTS/SERVICES:

- Advising
- Shop concept design
- Supplying & assembling the furniture/shop-fitting
- Supplying the catering equipment
- Developing the franchising system (books, manuals & documents)
- Creating contacts throughout the world to meet franchisee/investors
- Assistant to find the perfect location
- Bartender & coffee school training – by our partner
- Gelato (ice-cream) school training – by our partner
- Coffee blend – by our partner
- New trend advising
- Menu creations
- Food wear (total looking)
- Products sourcing and buyer services
- Marketing support and developing plans
- Advertising and big events
- Developing business idea related to retail

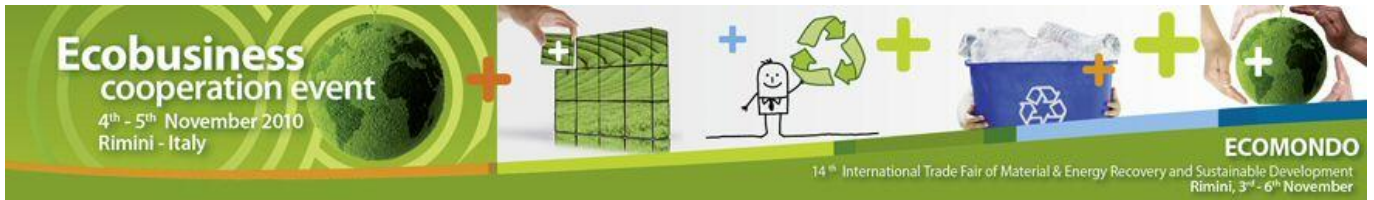
### **Investment - We develop responsible business projects in the Retail sector**

DETAILED DESCRIPTION:

ECOFFEE the first truly responsible Retail platform.

ECOFFEE is a ground-breaking business tool, dedicated to those entrepreneurs in the food-retail sector willing to invest in "environmental culture" applied to everyday consumer's habits.

ECOFFEE is a very detailed business project targeted to the food-retail sector companies but that can potentially be implemented into other sectors. The development of a protocol based on the principles of eco-sustainability and social responsibility will be the tool thanks to which we can actively support companies. Second, the creation of a concept store, ideally a Coffee Shop, will be a field test for this internally developed Protocol. The Coffee Shop will be entirely eco-friendly and environmentally sustainable, a place where the customer awareness towards these important issues will be reinforced by a constant verbal and sensorial communication. Third,



ECOFFEE will also become a Franchising project, providing many potential eco-sensitive entrepreneurs with a great opportunity to move from words to deeds. I think that only by setting ground rules for the sustainability of new installations, and why not, providing appropriate incentives, we can really make a leap forward toward a Green Economy”

**MAIN ADVANTADGES / BENEFITS:**

- Zero Km products = no transport from long distance
- Bio-food & bio-drinks = Bio agriculture
- Renewable energies = no pollutions
- Recycling furniture = no waste
- Plastic? No, thanks! = bioplastics that use vegetable components such as corn starch, and biodegradable polymers obtained from both raw materials from renewable raw materials of fossil origin are definitely our preferred choice. Products made of bioplastics can be directly disposed of into the waste wet fraction.
- SWRP: Smart wastes recycling program
- Ethic menu: sensible price list
- Eco|able design – no excuse = an eco-responsible product design and implementation, respectful of the environment and of the people, with a special attention to the ones with disabilities as a step forward to equal opportunities
- Eco|events: sustainable culture generator = . courses, workshops, events, exhibitions, concerts, books, everything that can generate and transfer the concept of eco-sustainability to the staff’s and customers’ daily actions.

**TECHNICAL SPECIFICATIONS (The compilation of this field it’s strongly suggested):**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Financial investors, field experts, final clients

## Develpack

Page: **127**

Address	Via dei Garibaldini, 111 89053 - Catona	<b>Italy</b>
Phone	+ 39 0965 303088	
Email	fpalamara@develpack.it	
www	www.develpack.it	
Organisation Type	Company	

### Contact Person

Name	<b>Giulietta Pericoli</b>
Position	External Collaborator

Areas of activity	Type of co-operation	
» End products made with salvaged material	Licence agreement	» Offer
» Eco-design and eco-compatible materials	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	» Offer
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Develpack has developed a wide range of innovative food packaging.

#### FIELD OF ACTIVITIES:

We are a small-and medium sized enterprise located in South of Italy (Calabria Region), operating in packaging sector.

#### MAIN PRODUCTS/SERVICES:

Amongst the other, packs in different shapes and with different innovative characteristics.

### **Manufacturing** - Innovative single-serving pack suitable for pressure cooking in microwave oven of raw foods

#### DETAILED DESCRIPTION:

An Italian company, operating in the packaging sector, has developed an innovative single serving packaging (international patented already granted), designed to contain two raw food components (for example pasta and sauce) separately and to have them evenly mixed immediately before the consumption after pressure cooking in a microwave oven.

The product works both as a pack for the conservation and the consumption of the food and as a practical and fast cooking system, thanks to the innovative patented valve.



#### MAIN ADVANTADGES / BENEFITS:

The solution allows to:

- pack separately raw foods which need no further manipulation (less industrial efforts) for a better final result;
- realize a healthy pressure cooking into a microwave oven, retaining a great quantity of nutritive substances up to + 78% when compared to traditional cooking methods;
- reduce cooking time up to + 60% compared to traditional cooking methods;
- contain all the necessary for a practical preparation and consumption of the foods thanks to suitable accessories.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Steam Pack is composed by:

- a dish for the main food product;
- a central dispenser for secondary ingredient (like sauce or dressing), equipped with an innovative patented valve;
- eventual third section, situated at the bottom, suitable for consumption accessories.

In contrast with traditional ready meals, the solution allows for packaging of raw foods which need no further manipulation (with a consequent reduction of industrial efforts), transforming them into high quality ready meals, as they are cooked at the time of consumption.

The innovative cooking method allows to retain a higher quantity of important nutritional substances within the food, such substances considered highly beneficial to the organism. Such a property derives both from steam cooking and to reduction in some case and full absence in others of any need to add liquid to complete the cooking process. Thanks to its particular operation process, the solution is suitable for storage, preparation and consumption of a wide range of food product.

## DICO NET

Page: **129**

Address	Rinascita 26 40064 - Ozzano Emilia	<b>Italy</b>
Phone	+39 051 794310	
Email	alessandro.trippla@diconet.it	
www	www.diconet.it	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandro Trippa</b>
Position	Sales and Marketing Manager

Areas of activity	Type of co-operation	
<ul style="list-style-type: none"> <li>» Waste selection and recycling</li> <li>» End products made with salvaged material</li> <li>» Eco-design and eco-compatible materials</li> <li>» Treatment and disposal of the resultant sludge</li> <li>» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles</li> <li>» Alternative liquid and gaseous fuels ICT applications for sustainable mobility</li> <li>» Solar energy</li> <li>» Wind energy</li> <li>» Water energy</li> <li>» Fuel cells</li> <li>» Energy conversion</li> <li>» Secondary fuels</li> </ul>	<ul style="list-style-type: none"> <li>Licence agreement</li> <li>Technical Co-operation</li> <li>Technological Co-operation</li> <li>Joint research project</li> <li>Manufacturing agreement</li> <li>Commercial agreement</li> <li>Financial agreement</li> </ul>	<ul style="list-style-type: none"> <li>» Request</li> <li>» Offer</li> <li>» Request</li> <li>» Request</li> <li>» Request</li> <li>»</li> <li>»</li> </ul>

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Network made of 16 companies which has grown to the current size in the last 20 years. Each company with its core business, is part of the network DICO NET because each possess a high technological specialization. Through a well geared system of operating synergies DICO NET is able to offer a complete service, with high quality standards, starting from the specifications required by the customer to the delivery of the finished product

#### FIELD OF ACTIVITIES:

Automatic machines, transportations, packaging machines.

#### MAIN PRODUCTS/SERVICES:

Mechanical works, assembly, prototypes design, engineering and manufacturing, electro mechanical and electronic controls.





**TECHNOLOGIES:**

Certified high standards and quality control. 3D CAD/CAM.

**Manufacturing - Capable to provide the full range of engineering and production service (3D design, parts making, assembly & testing).**

**DETAILED DESCRIPTION:**

Solid expertise in managing the production process allows us to provide complete manufacturing solutions. Starting from the production costs analysis and its optimization, CAD-CAM solutions, process and work flow engineering, proper study of placements of cylindrical and prismatic components, supplying the products with fully comprehensive quality and measurements reports.

**MAIN ADVANTADGES / BENEFITS:**

Long experience in study and assembly of ptototypes for world renowned Corporates.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** Company

## DIEMME SPA

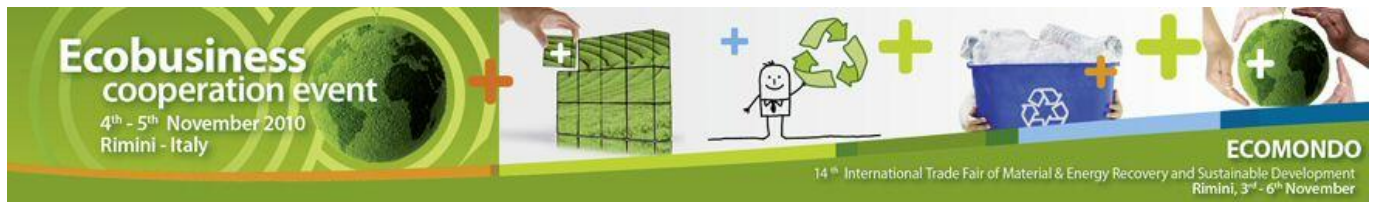
Page: **131**

Address	Via BEDAZZO 19 48022 - LUGO	<b>Italy</b>
Phone	+39 0545 20611	
Email	filterdiv@diemme-spa.com	
www	www.diemme-spa.com/filtration	
Organisation Type	Company	

Contact Person	
Name	<b>Danilo Bettoli</b>
Position	Soil Washing Manager

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	»
	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	»

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> DIEMME S.p.A. ITALY - WATER AND SOIL REMEDIATION DIVISION Diemme Spa established on 1923 is active on developing and manufacturing of technological processing lines and machineries for solid/liquid separation. Water and Soil Remediation Division since several years is specialized on providing solutions to contaminated soil and sediment based on "Soil Washing Process Technology" to end users, contractors and public organizations.</p> <p><b>FIELD OF ACTIVITIES:</b> Primary market sectors are mining, metallurgical, chemical, pharmaceutical, quarry and food industry.</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Design, fabrication and installation of solid/liquid separation machines for industrial process. Design, fabrication and installation of complete line based on Soil-Washing Process Technology.</p> <p><b>TECHNOLOGIES:</b> Plates filter presses and related components as feed pumps, chemical dosing and reacting system, residual solid transport system. Complete Soil-Washing process line for remediation of contaminated soil and sediment.</p>



**Export - Commercial agreements for the supply of Soil-Washing process line to remediate contaminated soil and sediment.**

**DETAILED DESCRIPTION:**

Soil Washing Process Technology is a proven technology, considered since several years best available technology for several contaminants, including heavy metals and hydrocarbons. Diemme thanks to his interdisciplinary experiences spanning from mining to waste management has been able to develop complete processing lines to remediate soil and sediment contamination.

**MAIN ADVANTADGES / BENEFITS:**

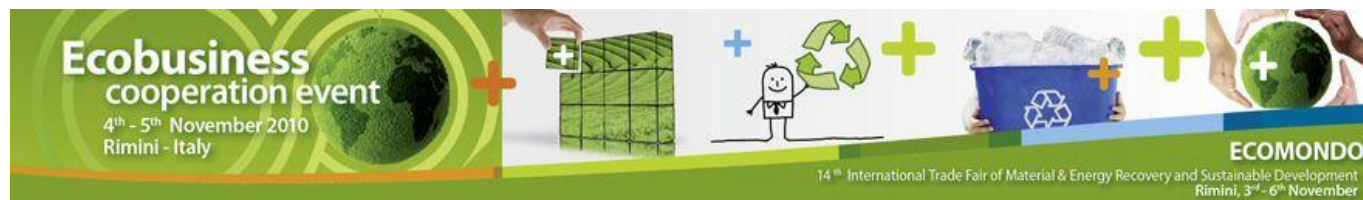
Inert material as stone, gravel, and sand are recovered. Contaminants removed or concentrated into a small residual volume. This technology operate also as volume minimization. Very low processing cost, drastic reduction of disposal cost for the residual volume of waste, process line heavy duty can operate 24 h/day and 7 day/week, large processing capacity and minimal manpower required. Short process time, unaffected by climatic conditions means also project always on schedule.

**TECHNICAL SPECIFICATIONS:**

Water based process, close loop with water recycling. Process line "custom made" and site specific. Different processing capacity available also on medium – large size. Suitable for Brownfield, large industrial area remediation, river and port sediments management and remediation.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

General contractor performing remediation on large scale.  
 Real estate Company involved in large remediation project.  
 Commercial agent operating on remediation field.



## Dipartimento di Chimica Università di Catania

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Address	Piazza Università 16 95131 - Catania	Italy
Phone	+390957385077	
Email	gcompagnini@dipchi.unict.it	
www	www.ccr.unict.it/	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Giuseppe Compagnini</b>
Position	Professor

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Energy saving and efficiency	Technical Co-operation » Offer/Request
	Technological Co-operation » Offer/Request
	Joint research project » Offer/Request
	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Consorzio Catania Ricerche is a non-profit Institution, born in 1987 among Public Bodies, such as CNR (National Research Council), IRI (Italian Industrial State Holding), University of Catania, Catania Trade Chamber and local industries (SGS Microelectronics now STMicroelectronics). Later, other research centres, such as INFN (Nuclear Physics National Institute), and other local industries (i.e. A.A.T. Agroindustry Advanced Technologies S.p.A., SIFI Pharmaceutical Industry SpA and ELMEC S.p.A) joined the Consortium.

The Consorzio was created to be an effective link among academic research, CNR and industrial research. Its main aims are know-how transfer, technological innovation spreading, applied research, advanced training, services for companies and territorial development.

### Research - Low cost and environmental friendly synthesis of metallic nanoparticles and their oxides

Italian academic research laboratory offers competences on the synthesis of colloidal nanoparticles obtained using an innovative, low cost and environmental friendly method. The procedure can be implemented up to the production at the gram scale. These nanoparticles can be used to coat metallic parts in order to create a nano-roughness on the product surface. Our method also allows completely different applications such as the marking of biomolecules or the photocatalytic conversion of air pollution in the bio-housing field.

Today, nanoparticles are widely implemented as functional elements in plastics, environmental and ceramic

products. Novel applications are targeted on nanomedicine, sensing, electronics, optics and photonics. Nowadays, however, only a limited variety of sustainable and scalable materials are available. Nanoparticles synthesized by conventional gas phase processes are agglomerated to micro powders that are hardly redispersible into functional matrices, and chemical methods often lead to impurities of the nanoparticle colloids caused by additives and precursor reaction products.

An Italian academic research laboratory offers competences on the synthesis of colloidal nanoparticles obtained using an innovative, low cost and environmental friendly method. These nanoparticles can then be used to coat metallic parts in order to create a nano-roughness on the product surface.

#### MAIN ADVANTAGES / BENEFITS:

- Low cost because of the absence of vacuum equipment and the easy collection of nanoparticles after the synthesis.
- Environmentally friendly. Operators not exposed to chemicals. Particles are not inhalable.
- Relatively easy to automate
- Easy post-functionalization
- Universal application with an almost unlimited variety of materials and solvents

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Our method also allows completely different applications such as the marking of biomolecules or the photocatalytic conversion of air pollution in the bio-housing field.

#### Description

Today, nanoparticles are widely implemented as functional elements in plastics, environmental and ceramic products. Novel applications are targeted on nanomedicine, sensing, electronics, optics and photonics. Nowadays, however, only a limited variety of sustainable and scalable materials are available. Nanoparticles synthesized by conventional gas phase processes are agglomerated to micro powders that are hardly redispersible into functional matrices, and chemical methods often lead to impurities of the nanoparticle colloids caused by additives and precursor reaction products.

#### List of Keywords

#### Technology

Materials Technology  
 Optoelectronics and plasmonics  
 Energy Storage and Transport  
 Coating technology  
 Micro- and Nanotechnology related to physical and exact sciences

#### Market

Surface and interface market  
 Pharmacology and cosmetics  
 Building trade and housing  
 Machine tools, other metal working equipment (excluding numeric control)

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

- Type of partner sought: Research organisation and/or technology apparatus company,
- Specific area of activity of the partner: Research & Production,
- Task to be performed by the partner sought: Research, production of prototypes focused to test new applications in the process.



## Dr. Francesco Campus

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Address	Viale Angelico, 36 00195 - Rome	<b>Italy</b>
Phone	(+39) 346 39 47 033	
Email	filmlands@gmail.com	
www	Roma	
Organisation Type	Company	

### Contact Person

Name	<b>Francesco Campus</b>
Position	Administrator

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer/Request
» Wind energy	Technical Co-operation	»
» Other Energy topics	Technological Co-operation	»
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### MAIN PRODUCTS/SERVICES:

Our company is mainly working in developing sites for PV plants from 1 to multi MW all around Italy. We also operate for consultancy, buying and selling authorized projects and in acquisition of 1 or more MW projects and wind farms.

### Other - providing new authorized projects from 1 to multi-MW plants.

#### MAIN ADVANTAGES / BENEFITS:

following the life of the projects we work on, before we put in the market.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

investors, project companies, other companies

## Dyers Srl

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Address	Via G. Peroni, 400/402 00131 - Roma	<b>Italy</b>
Phone	+39 06 96038030	
Email	petrolati@dyers.it	
www	www.dyers.it	
Organisation Type	Company	

### Contact Person

Name	<b>Eleonora Petrolati</b>
Position	CEO

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	»
	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

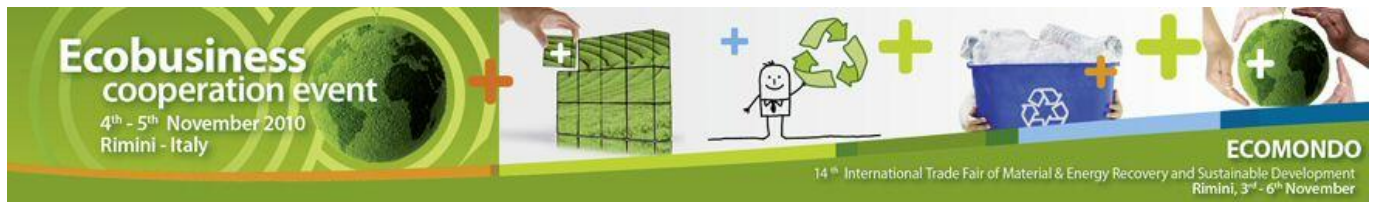
Dyers s.r.l. was born in January 2009 as a University of Rome Tor Vergata and CHOSE SpinOff, with the aim of guaranteeing a constant technological innovation in the field of photovoltaic and renewable energy.

#### FIELD OF ACTIVITIES:

The main activities of the company include:

- Research, development, design, construction, marketing and certification for electronics or optoelectronics systems with particular regards to innovative materials and technologies concerning organic and hybrid devices, production and energy management, and organization and management of related events
- Certifications, audits, inspections, tests, of systems and equipments for the above activities
- Design, calibration of equipment and systems for measurement, control, monitoring, and services to guarantee reliability and efficiency for measurement equipments

TECHNOLOGIES: DSC (Dye Sensitised Solar Cell) - Spectroscopy System



### Services - Spectroscopy System for Measurement of Incident Photon to Current Efficiency (IPCE)

#### DETAILED DESCRIPTION:

The company has developed a spectroscopy system for measurement of Incident Photon to Current Efficiency (IPCE) customized for photovoltaic devices in particular, Dye Solar Cells. Due to innovative design and research for high level of integration, great performances are assured with a lower cost with respect to alternative solutions available in the market.

The measurements of external quantum efficiency, aim to the analysis of the spectral response of photovoltaic devices depending on the composition of the incident light. The characterization is achieved by exposing the photovoltaic cell to single wavelength with know intensity of a source lamp and measuring the short circuit current of the cell. The intend is the evaluation of the device under test in terms of conversion efficiency of the incident light into electrical energy and to estimate the matching of the conversion spectrum of the cell to the solar spectrum. An IPCE set-up is composed of a white light source (A Xenon lamp), a mono-cromator for wavelength selection and a detection system to collect the electrical signal of the photovoltaic device.

#### MAIN ADVANTADGES / BENEFITS:

The systems currently available for IPCE measurements are all characterized by a general purpose approach resulting in high cost implementation and a plenty of functionalities not applicable to photovoltaic technologies such as Dye Solar Cells that have performances and working principles different from standard Silicon photovoltaic devices. The company approach to IPCE system is focused on the customization of solution based upon a novel design and a higher electronic integration that enables a wide range of power and resolution levels and a system cost reduction to 60%. Some features of the system developed:

- double light source mode (bias mode) or single light-source mode available
- digital coherent detection system by band-pass filter (no lock-in amplifiers)
- graphic control interface
- high compactness.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

The IPCE system achieves a better quality measurement due to the bias mode option that allows for measuring the photovoltaic cell under AM 1.5 (Air Mass) lighting conditions with the possibility of ranging the power of the incident light from 0 sun to 1 sun (1000 W/m<sup>2</sup>- Watt per square meter) that are conditions closer to the actual working conditions, resulting in a proper evaluation of the performances of the device. Furthermore, the substitution of the traditional lock-in amplifiers for detection of small signals with a microcontroller allows for a higher compactness of the system and a proper modulation of the signal since DSCs need for lower modulation frequencies than Silicon solar cells.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

The company is looking for research institute or private company for technical cooperation.

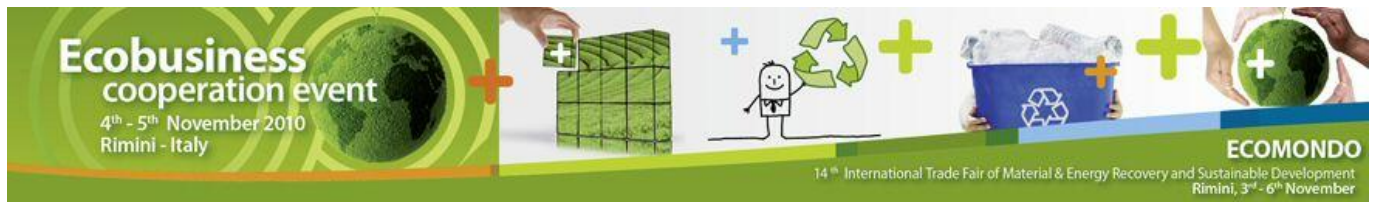
### Supplier - Dye-Sensitized Solar Cell Kit

#### DETAILED DESCRIPTION:

The company has developed a novel cell kit using natural dyes extracted from fruits and plants that provides an interdisciplinary context for students learning the principles of engineering, biological extraction, chemistry as well as environmental science and electron transfer. The company is looking for a research institute or private partner for the development of further applications.

#### MAIN ADVANTADGES / BENEFITS:

When the Dye-Sensitized Solar Cell (DSSC) is illuminated, light excites electrons within the natural dye. Light



absorption is realized by dye molecules absorbed chemically on the semiconductor surface. After having been excited by a photon of light, the dye injects an electron to the semi-conductor ( $\text{TiO}_2$ ). The electric field inside the material allows extraction of the electron. Positive charge is transferred from the dye to a redox mediator present in the solution with which the cell is filled and thence to the counter electrode. Via this last electron transfer, in which the mediator is returned to its reduced state, the circuit is closed. The maximum voltage that such a device could produce corresponds to the difference between the redox potential of the mediator and the Fermi level of the semi-conductor.

The solar cell fabrication procedure based on the use of natural dyes extracted from fruits and plants, is very simple and it illustrates how interdisciplinary science can be taught at lower division university and upper division high school levels for an understanding of renewable energy as well as basic science concepts. The device utilizes a nano-crystalline semi-conductor film and it can be reproduced at a very low cost. Engineering, materials science and semiconductor physics are emphasized during the realization process. Environmental chemistry and energy conversion can be linked to these concepts via the regenerative oxidation and reduction cycle found in the cell.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

For the realization of the dye-sensitized solar cell (DSSC) proposed in the educational kit, a titanium dioxide film that is coated on a conductive glass plate is dipped into a solution of a dye as for example hibiscus, blackberry, raspberry, orange. A single layer of dye molecules self assembles on titanium dioxide particle and absorbs sunlight. To complete the device, a drop of liquid electrolyte containing iodide is placed on the film to enter into its pores. A counter electrode, made of conductive glass that has been coated with a catalytic layer like graphite, is then placed on top, and the two glass plates are clipped together using binder clips. An actuator can be used to demonstrate the energy production by connecting in series more cells in order to increase the output voltage.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Private company, research institutions, schools

## E SOLAR GROUP

Page: **139**

Address	VIA NAZIONALE 47 31027 - SPRESIANO	<b>Italy</b>
Phone	3200772997	
Email	esolargroup@gmail.com	
www		
Organisation Type	Company	

### Contact Person

Name	<b>MAURO SCHENATO</b>
Position	

Areas of activity	Type of co-operation	
» Cooling and ventilation equipment	Licence agreement	» Request
» Biomass, bio-gas	Technical Co-operation	» Request
» Pellets	Technological Co-operation	» Request
» Solar energy	Joint research project	»
» Wind energy	Manufacturing agreement	»
» Water energy	Commercial agreement	» Request
» Fuel cells	Financial agreement	» Request
» Geothermal energy		
» Energy saving and efficiency		
» Thermal disposals		
» Energy conversion		
» Heating equipments		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

### Short description of company

DETAILED DESCRIPTION: E SOLAR GROUP is a company mainly made of professional technicians high qualified and working from years in the solar energy sector

FIELD OF ACTIVITY : Photovoltaic plants, solar plants, electric plants turnkey. Plant-building integrated planning with risks valuations collates with the structures, the electric plant, the fire, ROA and ECM). Energetic optimisation analysis between costs and building managing (energy manage service). Innovative solutions able to cut the electrical and heating costs. Energetic certification of the building and the plant.

PRODUCTS: Photovoltaic plants, solar plants, electric plants turnkey, engineer services, financial and corporate services.

### Manufacturing - Photovoltaic plants, solar plants, electric plants turnkey.

TECHNICAL SPECIFICATIONS:

Innovative concentrating photovoltaic components, innovative thermo-technique components.

POTENTIAL PARTNERS: We are looking for building companies, manufactures, consortium.





## E.N.E.R.G.I.A. Snc

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Address	Via Bevagna, 3 00191 - Rome	<b>Italy</b>
Phone	3398971171	
Email	info@energiasnc.com	
www	www.energiasnc.com	
Organisation Type	Company	

### Contact Person

Name	<b>Massimiliano Ciccolini</b>
Position	Partner

Areas of activity	Type of co-operation	
» Energy from waste and biomass	Licence agreement	»
» Biomass, bio-gas	Technical Co-operation	» Offer
» Energy saving and efficiency	Technological Co-operation	»
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The company was born from some professionals who believe in the opportunities offered by the use of renewable energy exploitation and rational and efficient both in urban and rural areas and, more generally, in developing the "green economy".

Collect requirements and inputs from the territory, systematize and propose flexible solutions that take into account the context in which reference and opportunities arise from time to time standing.

#### Mission:

- Understand the needs of the territory and exploit the opportunities arising from it by building an integrated process.
- To promote, organize and manage a process chain in terms of energy.
- Representing a person able to connect and combine the needs of all involved in the development process, public and private, but also an active and proactive in this interrelationship.

E.N.E.R.G.I.A. wants to help improve the quality of life by providing professional expertise of its professionals in many years of creating opportunities for economic and social development, with a view to accompanying and consulting business.

#### FIELD OF ACTIVITIES:

Energy audits in urban and rural areas  
Systems of distributed generation and micro-cogeneration  
Cogeneration and trigeneration systems



Integrated systems using renewable energies and energy saving

Biofuels

Exploitation of biomass and reuse of agricultural waste

**MAIN PRODUCTS/SERVICES:**

Consulting

Studies and Research

Marketing products  
and services

Training and job orientation

Marketing and Communication

**TECHNOLOGIES:**

- Consulting:

Design for tenders and public notices

Creation Partnerships project

Accompanying research funding to obtain their

Economic and financial analysis

Business plan

Drafting technical and administrative

Planning, organizing and managing supply chains

- Studies and research:

Analysis of pre-feasibility

Studies feasibility

Monitoring and Evaluation

Market Research

- Marketing:

Promoting products and services

Service for sale

After-sales Service

- Training and job orientation :

Planning, management and administration courses

Specialized Teaching

Orientation and job-support mentoring and counseling

- Marketing and Communication:

Drafting communications plans and marketing

Event planning and information campaigns

Organizing conferences, seminars and round tables

**Consulting - Creating and managing supply chains agroenergy**

**DETAILED DESCRIPTION:**

Design for tenders and public notices

Creation Partnerships project



Accompanying research funding to obtain their  
Economic and financial analysis  
Business plan  
Drafting technical and administrative  
Planning, organizing and managing supply chains

**MAIN ADVANTADGES / BENEFITS:**

Deep knowledge of the agricultural sector and possible synergies can be activated

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Ability to manage a supply chain process from the standpoint of technical, administrative, financial and organizational

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Companies producing equipment and / or who want to assess trade agreements especially in central Italy, committed itself in the field of biogas and processing of biomass. Also be affected by ski lifts to sell distributed generation (microgeneration, cogeneration and trigeneration) for the creation of local micro dies

## Ecodesign srl

Page: **143**

Address	Via E. Ferrari 75100 - Matera	<b>Italy</b>
Phone	0835302878	
Email	info@ecodesignsrl.com	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Vincenzo Moramarco</b>
Position	Sales Manager

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Waste selection and recycling	Technical Co-operation »
	Technological Co-operation »
	Joint research project » Offer/Request
	Manufacturing agreement » Offer/Request
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### FIELD OF ACTIVITIES:

Waste recycling

MAIN PRODUCTS/SERVICES: recycled LDPE granules

#### TECHNOLOGIES:

Plant selection, pre-washing, washing, crushing and extrusion of LDPE

### Supplier - technological collaboration and research materials for new markets

We produce recycled LDPE granules and we are looking for technology and commercial partners

## ECOSTRADA

Page: **144**

Address	LOCALITA CASSETTE 20 37010 - CAVAION VERONESE	<b>Italy</b>
Phone	0457302679	
Email	ecostrada@ecostrada.com	
www	www.ecostrada.com	
Organisation Type	Company	

### Contact Person

Name	<b>RENZO GASPARELLA</b>
Position	GENERAL MANAGER

Areas of activity	Type of co-operation														
» Sustainable mobility electric vehicles	<table border="0"> <tr> <td>Licence agreement</td> <td>»</td> </tr> <tr> <td>Technical Co-operation</td> <td>» Request</td> </tr> <tr> <td>Technological Co-operation</td> <td>» Request</td> </tr> <tr> <td>Joint research project</td> <td>»</td> </tr> <tr> <td>Manufacturing agreement</td> <td>»</td> </tr> <tr> <td>Commercial agreement</td> <td>» Offer</td> </tr> <tr> <td>Financial agreement</td> <td>»</td> </tr> </table>	Licence agreement	»	Technical Co-operation	» Request	Technological Co-operation	» Request	Joint research project	»	Manufacturing agreement	»	Commercial agreement	» Offer	Financial agreement	»
Licence agreement	»														
Technical Co-operation	» Request														
Technological Co-operation	» Request														
Joint research project	»														
Manufacturing agreement	»														
Commercial agreement	» Offer														
Financial agreement	»														

### Short description of company

ORGANISATION HISTORY/EXPERIENCE:  
The company is able to offer a vast range of electric motorcycles.

FIELD OF ACTIVITIES : Electric mobility  
Principali Prodotti / Servizi: Electric motorcycles

### Supplier - We are looking for commercial partners to distribute our products on the territory

DETAILED DESCRIPTION:: We offer electric motorcycles.

MAIN ADVANTADGES / BENEFITS:  
Zero air pollution technology.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):  
Our products are continuously updated.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:  
We are looking for companies and public administrations to supply with electric motorcycles.



## ECOTECNO SPA

Page: **145**

Address	VIA DEL LAVORO 42 20040 - BUSNAGO	<b>Italy</b>
Phone	+39 039 609598	
Email	MARKETING@ECOTECNO.INFO	
www	www.ecotecno.net	
Organisation Type	Company	

### Contact Person

Name	<b>MARIO PANSERA</b>
Position	MANAGING DIRECTOR

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Energy from waste and biomass	Technical Co-operation » Offer
» Biomass, bio-gas	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Italian Company providing endless solutions in wastewater treatment and solid contents condensation. thanks to the experience gained on different industries with several applications, the company is proposing as refeence partner for tailor-made solutions for any need. more than 2500 installations are running since more than ten years all over the world

#### FIELD OF ACTIVITIES:

Any company using water in its manufacturing process needs to separate water from contaminants elements to make it dischargeable according to the laws. Some of the applications are in: aluminium die-casting, chemical, pharmaceutical industry, civil and industrial waste landfills, dairy industry, electroplating, food and beverage, glass industry, gold processing industry, graphic and photographic industry, herbal industry, livestock and biodigesters, mechanical industry, waste hauler, wine production and many other.

#### MAIN PRODUCTS/SERVICES:

Installations with processing capacities from 250 to more than 180.000 liters/day of distilled water.

#### TECHNOLOGIES:

Vacuum technology evaporation is the core business: from evaporation we recover distillate water reusable up to 95% of the raw wastewater, a highly concentrate residue, representing 5% of the raw wastewater, into which all contaminants are collected; even a high quality concentrate (gold, chrome, nickel) that can be recycled in the production process.



**Distribution - sale & distribution agreements and commercial agreements with technical assistance**

**DETAILED DESCRIPTION:**

Evaporators distinguished in terms of source: electric or by heating fluids, depending on type and quantity of wastewater and the cost of the solution

**MAIN ADVANTAGES / BENEFITS:**

Solving problems for our customers for wastewater treatment, assuring a cost saving of over 50% of the running costs for disposal they have to pay each year

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Companies involved in wastewater treatment, even with other systems

## ECOVERDE srl

Page: **147**

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Phone	+39 0721 538757	
Email	a.frulla@ecoverdesrl.com	
www	www.ecoverdesrl.com	
Organisation Type	Company	

### Contact Person

Name	<b>Aldo Frulla</b>
Position	Administrator

Areas of activity	Type of co-operation
» Waste storage and transport	Licence agreement »
» Waste treatment - plants and technologies	Technical Co-operation » Offer
» Waste selection and recycling	Technological Co-operation »
» Treatment of wastewater and water for domestic consumptions	Joint research project »
» Techniques for the re-use of water	Manufacturing agreement » Offer
» Building materials	Commercial agreement » Offer
	Financial agreement » Request

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:**The company is an engineering organisation. Since the date ECOVERDE S.p.A. was founded and started up (March 2001 – August 2006, when it was transformed from an S.p.A. to an S.r.l.) the company has carried out a series of activities that can be summarized as follows:

1. production of general drawings of all components of the Green Island plant, both hard copies and CAD drawings
2. production of technical executive drawings for the creation of the plant, and in particular of the various sections of the machine
3. Construction of the first prototype: Green Island
4. Registration and filing of patent for the entire Green Island with BUGNION S.p.A. of Bologna (reg. no. BO2002A000394 dated 18.06.02) including use of technical innovations (registration in 64 countries outside the EU is being evaluated), currently protection has been filed in Russia and the United States.
5. A new patent covering the system for searching out wet product.
6. Acquisition of a license for a patented system for purification of the water used and separation of materials (currently being negotiated).
7. Production of a document containing the costs/benefits analysis for waste collection service providers (if the "Green Island" system is adopted).
8. Development of a business plan for creation of the factory to produce the "Green Island" plants

#### FIELD OF ACTIVITIES:

equipment for collection and treatment of waste, with a technology able to register, weigh, divide the type of waste (humid, paper, galsses, plastic, metals), to reduce the volume, to clean the waste and to produce second



hand (recycled) raw material.

**MAIN PRODUCTS/SERVICES:**

Green Island is an ambitious project that arises from a wide and accurate research on what technology nowadays offers for the recovery, collection and recycling of urban solid waste and from a comparative analysis of most advanced solutions in the field, on a worldwide scale.

It consists of a simple but sophisticated machine: In principle it is an ecological area in which refuses are converted in resources; In practice, an areatechnologically advanced for a rational optimization of them.. Essentially it is a structure in which the users can lay their wastes even unsorted, although selection of wastes will be boosted by means of economical benefits (e.g. a bonus on local taxes).

**TECHNOLOGIES:**

Green Island is a work of a novel mini plant aims to: collection, separation, processing, sanitation, compaction and recycling of waste solid urban aims to treat and to transform, already at the point of collection, waste resource, which is implemented by the company Ecoverde SRL. The main purpose of Green Island is the separation recovery and disposal of MSW as provided in order to avoid pollution.

The plant Green Island allows you to optimize the path of MSW as well as in refusing harvest in a differentiated, with immediate recognition of an advantage to those who give the refusal (citizen), and whether in undifferentiated product.

The plant in facts, is able to differentiate an automatic denial and treat the RSU as a resource.

**Manufacturing - Green Island: a unique plant to collect, separate, sanitize, compact and recycle urban solid wastes (U.S.W.)**

**TECHNICAL SPECIFICATIONS (The compilation of this field its strongly suggested):**

Green Island is a unique mini plant that serves to collect, separate, sanitize, compact and recycle urban solid wastes (U.S.W.). It is designed so that the company, Ecoverde S.R.L., can treat and transform the waste resources, right at the collection point.

The main purpose of the Green Island is to sort, recover and dispose of U.S.W.

The Green Island plant optimizes the handling of U.S.W. both when waste collection is differentiated ? when the parties delivering the wastes (the general population) help to provide an advantage ? and when the product is undifferentiated.

The plant is, in fact, able to “automatically differentiate the wastes” and treat the U.S.W. as a resource.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

The company is also looking for clients interested in installing the machine on their areas, like municipalities, companies specialised in the management of the collection and tratment of wastes, investors.

## EDIL LECA SPA

Page: **149**

Address	PONTEBBANA, 5 33098 - VALVASONE	<b>Italy</b>
Phone	+39 0434856214	
Email	info@edilleca.com	
www	WWW.EDILLECA.COM	
Organisation Type	Company	

Contact Person	
Name	<b>CARMELO LA PORTA</b>
Position	SALES MANAGER

Areas of activity	Type of co-operation
» Waste storage and transport	Licence agreement »
» Other	Technical Co-operation »
» Biomass, bio-gas	Technological Co-operation »
» Building materials	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

Short description of company
<p>FIELD OF ACTIVITIES: THE COMPANY OPERATES IN THE FIELD OF BUILDING MATERIALS</p> <p>MAIN PRODUCTS/SERVICES: horizontal storage bins resolve the problems of storing bulk materials, made up of prefabricated self-stabilising elements in high resistance reinforced concrete that are simply placed on the floor.</p>

<b>Manufacturing - THE COMPANY IS LOOKING FOR COMMERCIAL AGREEMENTS IN THE FIELD OF BUILDING MATERIALS</b>
<p>DETAILED DESCRIPTION: The company produces horizontal storage bins that resolve the problems of storing bulk materials, made up of prefabricated self-stabilising elements in high resistance reinforced concrete that are simply placed on the floor.</p> <p>MAIN ADVANTADGES / BENEFITS: The company is certified uni en iso 9001 and offers the advantage of rapid ensilage/removal and quick assembly/disassembly.</p>





## EDM Ecologia della Marca Srl

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Address	Via San Michele 71/f 31032 - Casale sul Sile	<b>Italy</b>
Phone	0039 0422 480279	
Email	berto@ecologiadellamarca.com	
www	www.ecologiadellamarca.com	
Organisation Type	Company	

### Contact Person

Name	<b>Luca Berto</b>
Position	Owner

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste collection	Technical Co-operation »
» Waste storage and transport	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: Waste collection, waste storage and waste transport. Logistic services. Recycling.

**Distribution - Waste logistic services in east Europe.**

## Elettrosannio

Page: **151**

Address	Zona Ind. KM 9 SS212 82020 - Pietralcina	<b>Italy</b>
Phone	+393406341419	
Email	ricerca@elettrosannio.com	
www	www.elettrosannio.com	
Organisation Type	Company	

### Contact Person

Name	<b>Salvatore Di Cristofalo</b>
Position	consulent

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer
» Building materials	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	»
	Manufacturing agreement	» Request
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The Electro Sannio snc has been operating since 1987 in the design, construction and installation of switchboards, power control systems and civil, industrial and technological plants. Since 1992 our staff, after leading the company at current levels through the application of traditional energy sources, is interested in renewable energies, developing an efficient production schedule and an excellent distribution network. Elettro Sannio is today a group of companies engaged in the production of electricity from renewable sources. These activities are supported by the provision of technology services and consulting, study, dissemination, information and training to raise the agreement and the culture around renewable energy, bridging the gap that separates us from other countries.

Research activities are conducted by Electro Sannio Ricerca s.r.l., one of the group companies. It has the know-how acquired by the group, bolstered by collaboration with various scientific partners in the field of renewable energy (University of Naples "Federico II", University of Sannio, University of Rome, Second University of Naples-SUN, University of Ferrara, Enea Portici, CNR Palermo, etc.).

#### FIELD OF ACTIVITIES:

The group's activity is mainly the design, construction, maintenance and monitoring of photovoltaic systems, solar thermal, wind and cogeneration plants.

#### MAIN PRODUCTS/SERVICES:

- consulting and project development;
- software for sizing photovoltaic plants;



- training on renewable energy at various levels.

**TECHNOLOGIES:**

Integrated Photovoltaics module (BIPV)

Mono-component tile with photovoltaic module

**Manufacturing - Mono-component tile with photovoltaic module**

**DETAILED DESCRIPTION:**

Elettrosannio offers a mono-component innovative tile that allows the housing of a photovoltaic module. The tile has maximum level of architectural integration and additional functionality for energy production such as: thermal insulation and ventilation of roof system. The tile can be also used without photovoltaic module. The company is searching for an industrial partner interested in the proposed product with manufacturing, commercial and license agreement.

Nowadays photovoltaic is one of the most promising renewable technology able to produce electric energy through sources on a large scale. In many European countries high level of insolation and increasing need of combustible material from non European countries make photovoltaics a strategic priority. Photovoltaic market still meets resistance principally due to two reasons:

- High initial costs for plants purchasing and installation
- Low integration level of photovoltaic elements and traditional building elements.

Photovoltaic panels used today for covering, are barely integrated due to technological solutions employed up to now and to colour (usually blue) with an high impact. These aspects don't allow aesthetic and chromatic solutions compatible with areas of special quality for landscape environment and architecture.

Photovoltaic tiles on the market come from adaptation of traditional shapes to new requirements in terms of Energy supply.

The proposed product aims to spread "photovoltaic culture" where is possible to make installation always observing urban planning rules. This is the situation for historic centre or for areas with landscape constraints. Traditional photovoltaic modules used up to now, as surface or roof coatings, due to their shape and colour (generally blue) vary considerably in terms of aesthetic and colour norm which distinguishes areas of particular architectonic quality. From this reason, the idea to realize this kind of tiles which use classical material (clay, brick) and not prevalent photovoltaic components to prevent colour impact of the pitch. The product is innovative in the market of building for its maximum level of architectonic integration and for its additional features in terms of energy production due to thermal insulation and ventilation of roof system.

**MAIN ADVANTADGES / BENEFITS:**

Monocomponent tile has precisely these advantages:

1. due to its shape it has reduced to minimum thickness and quantity of material;
2. energy saving during the manufacturing phase;
3. employment of recyclable material used for bricks and tiles for everything related to the tile support;
4. due to the separability of clay support from electric elements, all materials can be recycled;
5. the adopted design has been thought to simplify the tile shape preferring both modularity and standardization of elements.

The proposed product aims to spread "photovoltaic culture" where is possible to make installation always observing urban planning rules. This is the situation for historic centre or for areas with landscape constraints. Traditional photovoltaic modules used up to now, as surface or roof coatings, due to their shape and colour (generally blue) vary considerably in terms of aesthetic and colour norm which distinguishes areas of particular architectonic quality. From this reason, the idea to realize this kind of tiles which use classical material (clay, brick) and not prevalent photovoltaic components to prevent colour impact of the pitch. The product is



innovative in the market of building for its maximum level of architectonic integration and for its additional features in terms of energy production due to thermal insulation and ventilation of roof system.

**TECHNICAL SPECIFICATIONS :**

The monocomponent tile is formed by a single clay component of cm. 57 x 40, which hosts a photovoltaic cell of cm. 20,5x 20,5. Innovation consists of transforming an object with a sole covering function for a building in a technologically advanced product able to produce electrical energy. The proposed system provides:

- a ventilation system such that reduces warming produced by photovoltaic cells;
- a rainwater flowing system that limits to minimum water quantity that flows on photovoltaic cells avoiding that in the winter ice, frost or waste pile up;
- a slope of 27 degrees with respect to the pitch;

union of tiles has been studied without blockage in order to facilitate maximum of ventilation of photovoltaic surfaces facilitating photovoltaic cells cooling, removal of possible waste and absence of shadow.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

- Type of partner sought: Industry
  - Specific area of activity of the partner: building, renewable energy
  - Task to be performed: For manufacturing agreement: if the partner is in the building sector, he will manufacture the tile and the proposer will deal with all photovoltaic aspects with his know-how. The final product could be commercialized in respective markets.
- If the partner is in renewable energy sector the partner will receive all the know-how to start the manufacturing of a new system and he will also care the production of tiles.



## ELIOCENTRICA Soc. Cons. a r.l.

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Address	Via dell'Edilizia 85100 - Potenza	Italy
Phone	0971470981	
Email	apostolo@eliocentrica.eu	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Giovanni Apostolo</b>
Position	Operation MNG

Areas of activity	Type of co-operation	
» Biomass, bio-gas	Licence agreement	» Offer/Request
» Solar energy	Technical Co-operation	» Offer/Request
» Wind energy	Technological Co-operation	» Offer/Request
» Building materials	Joint research project	»
	Manufacturing agreement	» Offer/Request
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Young and dynamic company founded in 2010, expanding and with strong motivation and potential

FIELD OF ACTIVITIES: Renewable energy - solar energy - wind energy

#### MAIN PRODUCTS/SERVICES:

Design, installation and maintenance of the systems; development of solar photovoltaic systems in respect of uses, applications, energy efficiency, etc...Feasibility studies and technical and economic consulting services to enterprises, companies and sectors of interest, to public and private entities for energy planning on renewable energy; assistance in identifying and funding productive investments for small and medium enterprises

TECHNOLOGIES: Photovoltaic, solar heat, wind farms

### Services - i need to improve my cooperation with other subjects

DETAILED DESCRIPTION: Searching for partners for commercial agreements and technology

MAIN ADVANTADGES / BENEFITS: the company offers research e consulting . Assistance in identifying and funding productive investments for small and medium enterprises. Turnkey service

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

development of solar photovoltaic systems in respect of uses, applications, energy efficiency, etc...

We are available to meet all the companies that deal with the area of our interest





## ENEA

Page: 155

Address	Via Enrico Fermi 45 00044 - Frascati	<b>Italy</b>
Phone	+39(06)94005861	
Email	luca.fiorani@enea.it	
www	www.enea.it	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Luca Fiorani</b>
Position	Researcher

Areas of activity	Type of co-operation	
» Other	Licence agreement	» Offer
	Technical Co-operation	» Offer
	Technological Co-operation	» Offer
	Joint research project	» Offer
	Manufacturing agreement	» Offer
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

ENEA is the Italian National Agency for New Technologies, Energy and Sustainable Economic Development. ENEA performs research activities and provides agency services in support to public administrations, public and private enterprises, and citizens.

#### FIELD OF ACTIVITIES:

The ENEA's main research issues are as follows:

#### ENERGY

- Nuclear Fusion
- Nuclear Fission
- Renewable Energy Sources
- Energy Efficiency
- Advanced Technologies for Energy and Industry

#### SUSTAINABLE ECONOMIC DEVELOPMENT

- Environmental Characterization, Prevention and Recovery
- Environmental Technologies
- Seismic Protection
- Radiation Biology and Human Health
- Sustainable Development and Agroindustry Innovation

#### NEW TECHNOLOGIES

- Radiation Applications



- Material Technologies
- Environmental Energy Modelling
- ICT

<http://www.enea.it/com/ingl/default.htm>

### Services - Compact and advanced laser spectrometer for water quality analysis

#### DETAILED DESCRIPTION:

CASPER (Compact and Advanced laser SPECTrometer for Riade) has been realized for the project RIADE (Integrated research for applying new technologies and processes for combating desertification) [www.riade.net] and has been patented. It is based on double filtration (30  $\mu$ m and 0.22  $\mu$ m) and double excitation (frequency quadrupled Nd:YAG laser emitting at 266 nm and diode laser emitting at 405 nm) in order to detect both dissolved and particulate components of waters coming from aquifers, rivers and lakes.

After the first filtration (30  $\mu$ m), that eliminates unwanted materials, the sample contains both dissolved and particulate components and it is introduced in the first cuvette, where it can be irradiated by both wavelengths separately. The second filtration (0.22  $\mu$ m) allows only the dissolved matter to pass into the second cuvette that, once more, can be crossed by a beam either at 266 nm or 405 nm.

The double excitation extends the range of detectable components: the fluorescence yield of oils, polycyclic aromatic hydrocarbons, and proteins is higher if excited at 266 nm, while that of chromophoric dissolved organic matter, chlorophyll-a and other algal pigments is higher if excited at 405 nm.

Eventually, the emission spectra give information on the chemical composition of the samples: e.g. phycoerythrin and chlorophyll-a, if excited at 405 nm, will emit at about 580 nm and 680 nm, respectively.

CASPER is a good candidate for field campaign because it is battery operated, fully controlled by a portable computer and one measurement takes less than one minute. CASPER measured chlorophyll-a concentrations in the aquifer near Licata (Sicily) during the RIADE Campaign (May 22 – 25, 2005). CASPER data have been used by ecologists and have improved our understanding of salinization and desertification.

#### MAIN ADVANTAGES / BENEFITS:

CASPER is fast, compact and transportable.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Once calibrated with known samples, CASPER reaches remarkable accuracies in absolute concentrations: 0.1  $\mu$ g/l for chlorophyll-a and 0.1 mg/l for dissolved organic matter.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

A company wishing to put CASPER in the market and/or use it for servicing.



## ENEA

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Email	paolo.masoni@enea.it	
www	www.enea.it	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Paolo Masoni</b>
Position	Researcher

Areas of activity	Type of co-operation
» Eco-design and eco-compatible materials	Licence agreement » Technical Co-operation » Offer Technological Co-operation » Joint research project » Manufacturing agreement » Commercial agreement » Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

ENEA is the Italian National Agency for New Technologies, Energy and Sustainable Economic Development. ENEA performs research activities and provides agency services in support to public administrations, public and private enterprises, and citizens.

#### FIELD OF ACTIVITIES:

The ENEA's main research issues are as follows:

#### ENERGY

- Nuclear Fusion
- Nuclear Fission
- Renewable Energy Sources
- Energy Efficiency
- Advanced Technologies for Energy and Industry

#### SUSTAINABLE ECONOMIC DEVELOPMENT

- Environmental Characterization, Prevention and Recovery
- Environmental Technologies
- Seismic Protection
- Radiation Biology and Human Health
- Sustainable Development and Agroindustry Innovation

#### NEW TECHNOLOGIES

- Radiation Applications



- Material Technologies
- Environmental Energy Modelling
- ICT

<http://www.enea.it/com/ingl/default.htm>

### Services - eVerDEE - web based tool for screening Life Cycle Assessment

#### DETAILED DESCRIPTION:

eVerDEE is a web based tool for screening Life Cycle Assessment designed to adapt the ISO 14040 requirements and to offer easy-to-handle functions with sound scientific base, to be used directly by SMEs.

Complex methodological problems (system boundaries definition, choice of elementary flows and impact categories, data quality estimation and documentation) are simplified according to the SMEs needs. Two different types of inventory procedures (free and guided) are available, which allows two different types of applications (industrial or agricultural sector). The tool is supported by a database, which contains pre-elaborated environmental indicators of substances and processes for different impact categories, and a help-on-line. For each step of the inventory procedure users input their data concerning the quantity of the inputs/outputs, choose a corresponding entry from the database and evaluate the quality of the data they have input, selecting between predefined options.

The impacts are quantified on the basis of ten categories (consumption of mineral resources, consumption of biomass, consumption of fresh water, consumption of non-renewable energy, climate change, acidification, eutrophication, photochemical oxidation, ozone layer depletion) and two environmental indicators (total waste and hazardous waste). The study results (characterization and normalization) are automatically calculated by using the inputs and the database values. Predefined subsets of categories can be chosen. The results are presented in a matrix and interpreted at different levels of detail. A direct comparison of the environmental performances of different life-cycle options is allowed using a target-plot.

#### MAIN ADVANTADGES / BENEFITS:

- Straightforward eco-compatibility evaluation tool
- On line training course.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

SMEs needing to assess LCA indicators

### Services - TESPI - web Tool for Environmental Sound Product Innovation

#### DETAILED DESCRIPTION:

TESPI is a web tool aimed at supporting the environmentally conscious design, taking into account the product life cycle, the customers' needs and the competitors' products. It can support the process of redesigning an existing product. The product should be a modular manufactured article, so that it can be disassembled and analyzed in each component.

The tool is structured in two parts: quality analysis and environmental check. With the quality analysis, the user identifies the customers' needs and requirements, assess their relevance, compares their own product with the competitors' one. With the environmental check they assess the environmental performance of their product answering a checklist of environmental aspects (ex.: Use of recycled materials, Use of harmful materials, Energy Consumption, Emissions etc.). The results are given in 4 graphs and identify the following points: which needs are the most relevant and how the product is good at satisfying each need, in comparison with the reference competitor; which eco-design strategies are the most relevant for the product; which part presents the most



critical aspects concerning quality (customers needs analysis) and the environment; which needs and environmental aspects require improvement efforts for each part.

**MAIN ADVANTADGES / BENEFITS:**

TESPI tool has been developed to support the first steps of product design taking into account both the quality and the environment. It helps to make communicate different “actors” of the product development inside the company.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

SMEs interested to support the eco-design process of their products.





## ENEA

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Phone	+39 051 6098353	
Email	kilowattene@enea.it	
www	www.enea.it/	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Guido Tonini</b>
Position	Researcher

Areas of activity	Type of co-operation	
» Energy saving and efficiency	Licence agreement	» Offer
» Other Energy topics	Technical Co-operation	» Request
	Technological Co-operation	»
	Joint research project	» Offer
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

ENEA is the Italian National Agency for New Technologies, Energy and Sustainable Economic Development. ENEA performs research activities and provides agency services in support to public administrations, public and private enterprises, and citizens.

#### FIELD OF ACTIVITIES:

The ENEA's main research issues are:

#### ENERGY

- Nuclear Fusion
- Nuclear Fission
- Renewable Energy Sources
- Energy Efficiency
- Advanced Technologies for Energy and Industry

#### SUSTAINABLE ECONOMIC DEVELOPMENT

#### NEW TECHNOLOGIES

**Services - Tool for assessment of household electric energy consumption and savings. Cooperation is foreseen for expanding and refining the tool.**

DETAILED DESCRIPTION:

KiloWattene is a tool for the assessment of household electric energy consumption and potential savings.

As a self paced, guided and interactive survey of all the appliances and electric devices in the home, it allows to estimate the overall monthly consumption and to breakdown it into categories with the aim to discover where most savings can be obtained, or which devices urged to be replaces for their low efficiency.

The KiloWattene tool was jointly developed by the Bologna Municipality and ENEA. It has been created and tuned up in the framework of European projects aimed at increasing energy efficiency in the home (SAVE and Intelligent Energy programmes). It has undergone tests on selected groups of families and was furtherly refined after evaluation of preliminary survey results.

For estimates of consumptions both intensity of use and appliance performances are taken into account, obtained by direct power measurement (if available), by manufacturer specifications or, when these figures are not known, by best guessing from the data known by the owner: size, energy class, age, user settings. Accurate models for refrigerator, TV set, dishwasher, and washing machine were set up for this goal, according to trends and estimates from research and literature.

Local power measurements with an instrument, usually lengthy and cumbersome, can thus be avoided, speeding up the audit process. Overall monthly power consumption can be compared with the actual bill for proof-check of inputs and reliability of the overall results.

Payback times for replacement of inefficient appliances with A+ A++ energy class ones are given according to actual mean street prices and saved electricity costs.

#### MAIN ADVANTADGES / BENEFITS:

Advantages / benefits are manifold.

- Active awareness tool for electric energy efficiency campaigns
- Determine which actions are the most effective for energy savings
- Fast results for preliminary household electric energy checkup. No need for long power metering sessions
- Evaluation of costs/benefits when replacing old appliances
- May help ESCOs in dimensioning PV panels installation and in finding the best tradeoff

#### TECHNICAL SPECIFICATIONS:

An offline tool (Excel-OpenOffice spreadsheet) is available in English and Italian. Online web based tool with identical features is in an advanced phase of development.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

- Local and regional administrations / bodies involved in electric energy consumption evaluation in the household / civil sector
- Energy agencies and subjects involved in energy efficiency awareness campaigns and actions
- Coordinators and partners in projects from Intelligent Energy EU programme



## ENEA

Page: 162

Address	Via Anguillarese 301 00123 - Roma	<b>Italy</b>
Phone	0630483263	
Email	maurizio.casarci@enea.it	
www		
Organisation Type	Research Organization	

### Contact Person

Name	<b>Maurizio Casarci</b>
Position	Project Manager

Areas of activity	Type of co-operation	
» Saving water in intensive industrial manufacturing	Licence agreement	»
» Techniques for the re-use of water	Technical Co-operation	» Offer
» Other	Technological Co-operation	»
» Energy from waste and biomass	Joint research project	» Offer
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

ENEA is the Italian National Agency for New Technologies, Energy and Sustainable Economic Development. ENEA performs research activities and provides agency services in support to public administrations, public and private enterprises, and citizens.

#### FIELD OF ACTIVITIES:

The ENEA's main research issues are as follows:

#### ENERGY

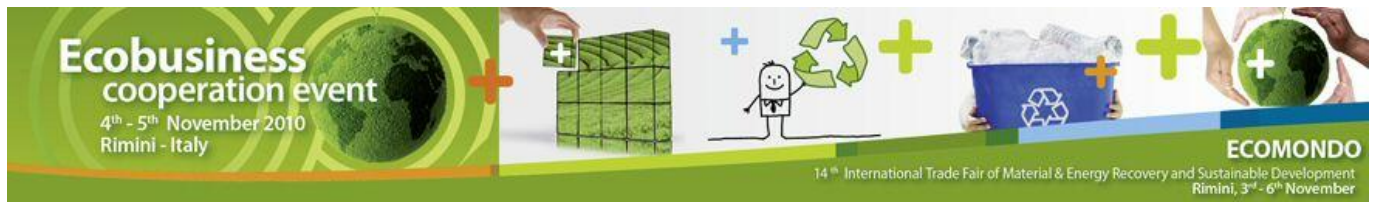
- Nuclear Fusion
- Nuclear Fission
- Renewable Energy Sources
- Energy Efficiency
- Advanced Technologies for Energy and Industry

#### SUSTAINABLE ECONOMIC DEVELOPMENT

- Environmental Characterization, Prevention and Recovery
- Environmental Technologies
- Seismic Protection
- Radiation Biology and Human Health
- Sustainable Development and Agroindustry Innovation

#### NEW TECHNOLOGIES

- Radiation Applications



- Material Technologies
- Environmental Energy Modelling
- ICT

### **Research - Ecoinnovation and techniques for the re-use of water in intensive industrial manufacturing**

#### **DETAILED DESCRIPTION:**

The BATTLE project aims at configuring and applying on demonstrative scale a new BAT for low impact water management in textile industry with the development and prototypal application of a clean technology for the water reuse

#### **MAIN ADVANTADGES / BENEFITS:**

The reuse plant is dimensioned for a treatment capacity of about 500 m<sup>3</sup>/d. The company is actually operating this plant and it is planning to upgrade it to 1000 m<sup>3</sup>/day

#### **TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Feasibility and efficiency of the new BAT has been shown by its demonstrative application in a representative textile finishing medium enterprise, Stamperia di Martinengo. The new BAT proposed methodology relies on the concept of separation of the process effluents as opposed to the end of pipe approach. The process effluents with suitable characteristics are mixed and the resulting stream is diverted to a treatment station (membrane plant) for subsequent reuse after mixing with primary water in the necessary proportion. The effluents not suitable for reuse, mixed with the concentrates produced by the membrane plant will constitute the inlet of the existing WWTP whose operation will have to be optimised to adapt it to the treatment of smaller volumes of more concentrated effluents.

Membrane technology has emerged as a reliable and feasible option in the treatment of various textile effluent streams. At present it represents the most widely applied treatment for on-site reuse, allowing the recovery not only of water but also of chemicals and energy. Attractive features of membranes are also: the low weight and footprint of the equipment, the reduced use of chemicals, a Constant quality permeate and the high potential for automated operation. Water recycling has several important environmental benefits and a saving of at least 50% of fresh water by substitution with reclaimed effluents is the first expected result of the project.

The quality standards for reuse water have been tailored to the production requirements and it was online controlled by an appropriate monitoring system. In fact, the extreme variability of reusable streams of the textile wastewater process effluents requires on-line water quality measurements and implementation of on-line control plus the development and instruction of a prototype Expert System.

#### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Research Company and/or end-user SME's



## ENEA - Environmental Technologies Technical Unit

Page: 164

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Email	claudia.brunori@enea.it	
www	www.enea.it	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Claudia Brunori</b>
Position	Head of Laboratory for Eco-innovation of

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste treatment - plants and technologies	Technical Co-operation	» Offer/Request
» Waste selection and recycling	Technological Co-operation	» Offer/Request
» End products made with salvaged material	Joint research project	»
» Eco-design and eco-compatible materials	Manufacturing agreement	»
» Treatment of wastewater and water for domestic consumptions	Commercial agreement	»
» Saving water in intensive industrial manufacturing	Financial agreement	»
» Techniques for the re-use of water		
» Treatment and disposal of the resultant sludge		
» Wastes processing and their utilization as secondary raw materials		

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** The Technical Unit on Environmental Technologies of ENEA carries out research activities , implementation, design, realization and validation of innovative environmental technologies as well as provides technical and scientific support to the Public Administrations and the industrial sectors. ENEA is therefore not involved in technologies commercialization; it provides expertise and know how for technologies development and implementation.

#### FIELD OF ACTIVITIES:

Waste management process and regulation; Eco-innovation of production processes; Water management and regulation; Environmental certification; Environmental restoration; Modeling and evaluation of atmospheric pollution





**Research - We are looking for general technical collaboration in waste and water management fields.**

**DETAILED DESCRIPTION:**

Development and implementation of technologies for waste and water management process and regulation including:

Development, implementation, validation and realization of prototypes, also at pre-industrial scale, of innovative technologies for the waste cycle

- waste collection
- waste thermal treatment (gasification, pyrolysis)
- primary/secondary raw materials recovery (for example precious elements from RAEE and others)
- production of energy from waste
- support to the implementation of local cycles of waste

Development and implementation of technologies for the water management

- wastewater treatment in selected industrial sectors
- reuse of treated wastewater
- reduction of water consumption in production processes
- development of "intelligent" systems for monitoring and automated management of wastewater treatment plants

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Private enterprises, public administrations

**Research - We are looking for general technical collaboration in eco-innovation of production systems and environmental certification fields.**

**DETAILED DESCRIPTION:**

Development and implementation of technologies for eco-innovation of production processes and environmental certification including:

- environmental management systems
- environmental technologies for the eco-innovation of industrial processes
- eco-sustainability of industrial, urban and touristic areas
- supporting the public administration and the private industrial sector in the implementation of the specific regulations (REACH Regulation and others)
- management and implementation of methodologies, processes and tools for environmental certification (EMAS, ISO 14001, Agenda 21 and environmental labels, such as product eco label I, II and III)
- process and product environmental certification

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Private enterprises, public administrations

## Ener+ di Cambarau Roberto

Page: 166

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Phone	070/830664	
Email	enerpiuroberto@gmail.com	
www	www.energiapositiva.it	
Organisation Type	Company	

### Contact Person

Name	<b>Roberto Cambarau</b>
Position	Founder

Areas of activity	Type of co-operation	
» Energy from waste and biomass	Licence agreement	»
» Biomass, bio-gas	Technical Co-operation	» Request
» Pellets	Technological Co-operation	» Request
» Solar energy	Joint research project	»
» Wind energy	Manufacturing agreement	» Request
» Water energy	Commercial agreement	» Request
» Geothermal energy	Financial agreement	» Request
» Energy saving and efficiency		
» Thermal disposals		
» Energy conversion		
» Building materials		
» Heating equipments		
» Other Energy topics		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The company Ener+ was created in 1996, with a focus on new technologies applied to renewable energies, developed in Germany during last years.

#### FIELD OF ACTIVITIES:

Ener+ is nowadays a company specialized in the installation of heating systems operating with biomass boilers, and with a special focus on wood chips and all wood energies.

**MAIN PRODUCTS/SERVICES:** Through the exploitation of innovative technologies applied to renewable energies we proposed to obtain a high respect for the environment, creating jobs and energy independence with solutions bound with the territory.



### **Services - Installation of heating systems based on renewable energy sources**

**DETAILED DESCRIPTION:** Through the exploitation of innovative technologies applied to renewable energies we proposed to obtain a high respect for the environment, creating jobs and energy independence with solutions bound with the territory.

The main idea is to assemble in one project, the production of wood chips, the supply of energy, system management and energy contracts.

Products developed by the company are based on the idea of using renewable energy sources to make systems more efficient and cost-effective; the company offers systems based on biomasses of different materials (mainly made up of wood), photovoltaic and solar thermal, and other heating systems in general.

**MAIN ADVANTADGES / BENEFITS:** Advantages are mainly related to efficiency and money saving, and to security in the supply of cheap energy.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested): The main idea is to assemble in one project, the production of wood chips, the supply of energy, system management and energy contracts.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Customers can be private or public buildings, small municipalities, hospitals, schools, etc ...

## Energie Etiche srl

Page: **168**

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Email	livio.crestini@energieetiche.com	
www	www.energieetiche.com	
Organisation Type	Company	

### Contact Person

Name	<b>Livio Crestini</b>
Position	owner

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer
» Wind energy	Technical Co-operation	» Request
	Technological Co-operation	» Offer/Request
	Joint research project	» Offer/Request
	Manufacturing agreement	» Request
	Commercial agreement	» Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Energie Etiche S.r.l. is a new company founded in 2010 to promote an eco-innovative idea namely, the prediction of the wind in a specific site.

The entrepreneurial idea behind the company was born back in 2008 following the need for an assessment for eolic energy production in an eco-village in central Italy.

we have got a patent about our system.

The company capital is 10.000 Euro.

Main milestones achieved are the following:

- Company created in April 2010
- Pre-incubated at BIC LAZIO in June 2010
- Granted support from ESA, CNR, ENEA, ANEV, CNMCA and University of Cassino

#### FIELD OF ACTIVITIES:

Renewable energies in wind and solar sectors.

#### MAIN PRODUCTS/SERVICES:

Service to reduce time and cost of wind campaign

#### TECHNOLOGIES:

space/ground wind analysis and prediction



**Investment - developing an hw sw system to reduce time and cost of a wind campaign. looking for investors and hw/sw partners.**

**DETAILED DESCRIPTION:**

we provide a service to reduce wind campaign up to 2 months.

**MAIN ADVANTADGES / BENEFITS:**

open the minieolic market.

redice time to market for maxi eolic.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

we use satellite heart observation, ground sided observations to produce a precise estimation of wind in a specific site, in 2 months time and with a low cost.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

- 0) commercial partner
- 1) industrial partner
- 2) financial partner
- 3) hardware partner
- 4) software partner



## Energis Srl

Page: 170

Address	Via Sorda Sampieri, km. 5,00 97015 - Modica (Italy)	<b>Italy</b>
Phone	+39 0932 906639	
Email	info@eco-energis.it	
www	www.eco-energis.it	
Organisation Type	Company	

### Contact Person

Name	<b>Salvatore Di Giacomo</b>
Position	Manager

Areas of activity	Type of co-operation	
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Licence agreement	» Request
» Sustainable mobility electric vehicles	Technical Co-operation	» Request
» Energy from waste and biomass	Technological Co-operation	»
» Biomass, bio-gas	Joint research project	» Request
» Wind energy	Manufacturing agreement	» Request
» Fuel cells	Commercial agreement	» Request
» Thermal disposals	Financial agreement	»
» Energy conversion		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

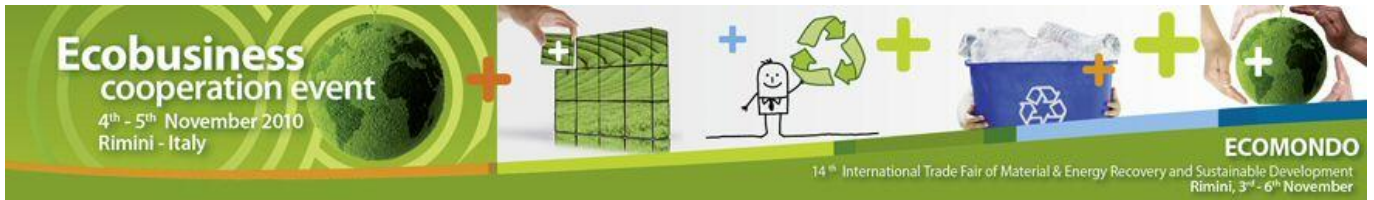
Energis works in Renewable Energies Field and is particularly busy in this Market as System Integrator. The firm, through a business model based on the integration and the control of the whole process (marketing, planning, installation, maintenance) offers a "Turn Key" solution. Energis market is represented by private customers, firms, industrial groups, State-run organizations, Public regional bodies and its Core Business is the development of projects based on Renewable Technologies (Photovoltaic, Wind Energy, Biomass).

For the great number of installations and an important industrial experience, Energis is considered one of the main regional operators in Renewable Field.

It can offer a complete control of the entire project and can assure to its customers a high quality level in all the steps of the process, from the initial factibility studies, to the final maintenance services.

Energis has also developed an important scientific research for humanitarian aims. It has planned and installed a number of projects, based on the photovoltaic technology, in the Diocese of Butembo Beni (Democratic Republic of Congo). These projects have been realized to bring the water from the natural sources to the nearest villages. This kind of experience has created inside the people of Energis an important sensibility for the concept of "sustainable economy" and this positivism is reversed on all the daily contacts with its customers.

Energis has been certificated (2009, July) in the ISO 9001:2008 QUALITY MANAGEMENT SYSTEM by TUV Intercert.



## Manufacturing - Photovoltaic, Wind Energy, Biomass

### DETAILED DESCRIPTION:

Energis works in Renewable Energies Field and is particularly busy in this Market as System Integrator.

The firm, through a business model based on the integration and the control of the whole process (marketing, planning, installation, maintenance) offers a "Turn Key" solution.

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Energis has been certificated (2009, July) in the ISO 9001:2008 QUALITY MANAGEMENT SYSTEM by TUV Intercert.

## Energy Saving S.r.l.

Page: **172**

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Email	info@mancon.it	
www	www.mancon.it	
Organisation Type	Company	

### Contact Person

Name **Stefano Mandolesi**  
Position

Areas of activity	Type of co-operation	
<ul style="list-style-type: none"> <li>» Waste management</li> <li>» Waste treatment - plants and technologies</li> <li>» Waste selection and recycling</li> <li>» Eco-design and eco-compatible materials</li> <li>» Treatment of wastewater and water for domestic consumptions</li> <li>» Saving water in intensive industrial manufacturing</li> <li>» Techniques for the re-use of water</li> <li>» Other</li> <li>» Solar energy</li> <li>» Wind energy</li> <li>» Water energy</li> <li>» Fuel cells</li> <li>» Energy saving and efficiency</li> <li>» Energy conversion</li> <li>» Secondary fuels</li> <li>» Control/metering equipments for heating in buildings</li> <li>» Other Energy topics</li> </ul>	<ul style="list-style-type: none"> <li>Licence agreement</li> <li>Technical Co-operation</li> <li>Technological Co-operation</li> <li>Joint research project</li> <li>Manufacturing agreement</li> <li>Commercial agreement</li> <li>Financial agreement</li> </ul>	<ul style="list-style-type: none"> <li>» Request</li> <li>» Offer/Request</li> <li>» Request</li> <li>» Request</li> <li>» Request</li> <li>» Offer</li> <li>» Offer</li> </ul>

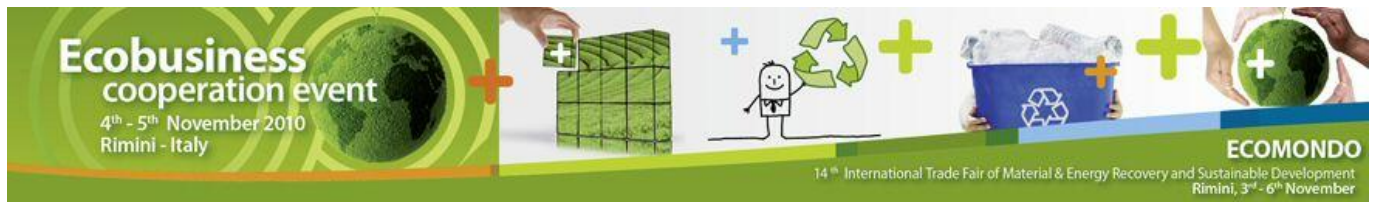
### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The company was founded in 1974 and offers his consulting services in the field of energy management and planning. By his experience and his know-how, the company is able to certificate the energy efficiency in buildings (i.e. by calculating the quality/price ratio that comes from use of a new technology). The company is looking for technical co-operation partners.

#### Detailed description:

Energy Saving S.r.l. is expert in energy management and planning. By his team, composed of specialists in audit, lawyers, engineers and economists with consolidated experience, the company offers his know-how to public and private companies that need consulting services in the field of energy, engineering and environment. Some of the main services:



- Energy Market Service, to reduce the energetic cost searching the best solution between producers and/or suppliers of electric power;
  - Energy Cost Control Service, for the optimization of contract with the supplying agencies of electric power and for the technical/economic monitoring of the relative invoices;
  - Energy Technology Service, acquiring information on the energetic characteristics of the customer and formalizing technical proposals, through new technologies or renewable energy source;
- Main advantages - economic study for the efficiency buildings by calculating the real energy efficiency and the quality/price ratio that comes the use of innovative technologies in the energy field. Expertise in the field of energy management.
- Type of partner sought:  
industry, research organisation, academy and all public and private companies that work in the field of energy.

**FIELD OF ACTIVITIES:**

audit, consulting & engineering, agents representatives, trader, E.S.C.O. energy saving company

**Consulting - audit, consulting & engineering**

**DETAILED DESCRIPTION:**

technical co-operation in consulting & audit energy, agents representatives, trader, E.S.C.O. energy saving company

**MAIN ADVANTAGES / BENEFITS:**

The energy audit allow to understand if a technology is sufficient to the functions for which it is destined in coherence with the installation costs and economic returns that expect to us

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

energy efficiency planning and energy efficiency in buildings

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

industry, research organisation, academy and all public and private companies that work in the field of energy

## ENVIDEAL

Page: **174**

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www	www.envideal.com	
Organisation Type	Other	

### Contact Person

Name	<b>Michele Cipolli</b>
Position	Founder & Owner

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	» Request
» Waste selection and recycling	Technical Co-operation	» Offer
» Treatment of wastewater and water for domestic consumptions	Technological Co-operation	» Offer/Request
» Saving water in intensive industrial manufacturing	Joint research project	» Offer
» Techniques for the re-use of water	Manufacturing agreement	»
» Treatment and disposal of the resultant sludge	Commercial agreement	» Offer/Request
» Energy from waste and biomass	Financial agreement	» Offer/Request
» Wastes processing and their utilization as secondary raw materials		
» Biomass, bio-gas		
» Solar energy		
» Wind energy		
» Water energy		
» Fuel cells		
» Geothermal energy		
» Energy saving and efficiency		
» Energy conversion		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

### Short description of company

Envideal is a startup project currently headquartered in Tuscany, Italy open to international participation.

Our mission is aimed at supplying advisory and consultancy services for the renewable energy industry, designing/engineering innovative platforms for the best use of available technologies and bringing them to the market.

We are a pool of engineers and managers with knowledge, competencies and experiences to succeed in this challenge and we want to be active at all levels of stakeholdership.





**Consulting - Evaluate and support development of innovative technologies in renewable energy sector**

**ABSTRACT:** we want to select new technologies and solutions for environmental sustainability and participate in joint development ventures.

**INNOVATIVE ASPECTS:** IP/shareholdership model oriented to the micro-equity participation.

**CURRENT STAGE OF DEVELOPMENT:** we currently are in the phase of business model definition and funding scheme proposal, market intelligence platform build-up, development partners selection. Ready to be on the market by October 2010.

**TARGET PARTNER SOUGHT:** any international organisation, SME or individual researcher willing to share their idea or vectoring their design/prototype to the market, participating in the project and willing to share their revenues/royalties in the medium-long term.

**Services - To foster cooperation for new product introduction and market development**

**ABSTRACT:** we are developing a knowledge base and a data warehouse that will be used for search and mining of public information about available sites and territories where green energy infrastructures may be installed. This will become a real market intelligence platform dedicated to renewable energies and will be geo-tagged.

**INNOVATIVE ASPECTS:** extensive use of automatic data collection and web syndication.

**CURRENT STAGE OF DEVELOPMENT:** we are in development phase and the first prototype will be available first week of October.

**TARGET PARTNER SOUGHT:** any European company willing to expand their business operations in Italy or communicate their R&D results within the Italian market.

## Envis Srl

Page:176

Address	Via Ferrarese 131 40128 - Bologna	<b>Italy</b>
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Email	info@envis.it	
www	www.envis.it	
Organisation Type	Company	

### Contact Person

Name	<b>Luciano Danieli</b>
Position	employee

Areas of activity	Type of co-operation	
» Techniques for the re-use of water	Licence agreement	» Offer
» Treatment and disposal of the resultant sludge	Technical Co-operation	» Offer
» Energy from waste and biomass	Technological Co-operation	» Offer
» Biomass, bio-gas	Joint research project	» Offer
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Envis S.r.l. is an Italian Engineering Company placed in Bologna (Italy), established on 2001 within the Treatment and Water Cycle Section of ENEA (Italian National Agency for New Technologies, the Energy and the Environment), thanks to the skills acquired by Environmental Engineers and PhDs in Sanitary Engineering. A multidisciplinary team is able to offer services in several environmental fields such as civil and industrial wastewater treatment, (waste)water reuse, anaerobic digestion of different substrates (livestock manure, organic substrates from agriculture and agri-food industry, sewage sludges, etc.) aimed at renewable energy production, remediation of contaminated sediments, environmental impact assessment (including acoustic measurements and diagnosis), energetic certifications, assistance in EU and national funded project proposals elaboration.

#### FIELD OF ACTIVITIES:

- Wastewater treatment for civil and industrial sector
- Water reuse in municipal treatment plants and in the industrial sector
- Renewable energy production
- Energetic certification of households and industries
- Analytical characterization of wastewater and substrates for treatment purposes

#### MAIN PRODUCTS/SERVICES:

In the above listed fields, Envis is responsible for:

- Preliminary, definitive and executive design concerning technological plants for waste and wastewater

biological, physical and chemical treatment, including anaerobic digestion treatment aimed at renewable energy production;

- Lab tests for waste and wastewater characterization, and for organic substrates biomethanization potential evaluation, supporting plants design and monitoring.
- Advice and assistance in plants construction;
- Assistance in plant start-up and monitoring, through dedicated site visits aimed at optimizing the treatment efficiency. Dedicated service for biological treatment plant monitoring;
- Assistance during the authorization process aimed at the realization of technical plants, including the relations with all the competent authorities;
- Assistance for writing and implementing financed project proposals, providing a local technical support.

**TECHNOLOGIES:**

- Sequencing Batch Reactors (SBRs) and any Activated Sludge process for biological nutrients removal
- Anaerobic Digestion Process through CSTR and Plug Flow reactors aimed at renewable energy production from the biogas
- Biochemical Methane Potential (BMP) evaluation of organic substrates
- Water Reuse technologies

**Services - Solutions for waste/wastewater treatment for industries, livestock farms and other activities**

Application of innovative treatment processes aimed at managing variable flow rates and high-concentrated wastewater, such as Sequencing Batch Reactors technology. Typical applications of SBR technology is the nutrients removal from livestock and industrial wastewater and the treatment of high fluctuating municipal wastewater.

**DETAILED DESCRIPTION:**

SBR technology represents an alternative to the traditional continuous flow activated sludge treatment plants, performing the same biological processes in a batch operated reactor, through the cyclic modification of the reactor operation set up.

**MAIN ADVANTADGES / BENEFITS:**

SBR technology allows the following advantages and innovative aspects:

- Reducing footprint occupation;
- Higher flexibility than the conventional plants, due to the chance of modifying time duration of the different operational phases according to the real treatment needs;
- No need of external C source for denitrification due to unbalanced C/N ratio;
- Higher efficiency in COD and nutrient removal from high concentrated wastewater.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Envis provides a full spectrum of integrated services, including:

- Process design
- Detailed engineering design
- Equipment specification and sales
- Construction, supervision, support
- Start-up and O&M support

The SBR process is characterized by different time-process steps (fill, react, settle, decant and idle) allowing the full treatment of the wastewater entering the reactor during the fill phase. During the react phase



aerobic/anoxic/anaerobic conditions alternate one to the other allowing the optimal biological treatment, through a dedicated time-cycle designed according to the specific wastewater characteristics.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

- clients (wastewater producing activities like industries, livestock farms and any productive activity) requiring solutions for waste/wastewater treatment;
- technological partners already involved in this field as suppliers or engineering companies.

**- Renewable energy production from organic substrates (waste/wastewater, by-products, energy crops) by means of anaerobic digestion process**

ENVIS offers its experience for biogas plants design, realization, operation and management (biological process service through a specific analytical assistance) and for any renewable energy production application.

**DETAILED DESCRIPTION:**

Anaerobic digestion represents an important opportunity for energy recovering from organic substrates (wastes, wastewater, by-products). Such technology allows thermal and electric energy recovery through dedicated co-generative units fed with the biogas produced by the anaerobic treatment of organic substrates (wastes, wastewater, reject products, by-products).

Organic substrates are properly collected, mixed and treated in anaerobic digesters aimed at stabilizing the organic material (even providing to its sanitization) and allowing biogas production. The methane content in biogas is up to 60% in volume, as to be valorised for thermal and electric energy production.

**MAIN ADVANTADGES / BENEFITS:**

Anaerobic digestion entails the following advantages and innovative aspects: Organic matter stabilization , Odour control, Electrical energy recovery, Thermal energy recovery ,Natural organic fertilizers production

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Envis provides a full spectrum of integrated services, including:

- Process design
- Detailed engineering design
- Equipment specification and sales
- Construction, supervision support
- Start-up and O&M assistance

The process is controlled automatically through a dedicated remote system which allows the control of all the electro-mechanical devices installed (e.g. feeding and withdrawal pumps, mixing equipments, heating system, engines for electricity production), according to control parameters such as pH, viscosity and conductivity of both the inflow material and the content of the digester.

The treatment process is completed by a digestate treatment stage consisting of a solid-liquid separation, providing to the (partial) re-cycle of the separated liquid fraction.

A specific system provides the biogas treatment for the humidity and H2S removal before its feeding to the co-generative units.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Agricultural and livestock farms and agro-food industries which wish to provide to the energetic valorisation of its wastes or by-products.

Engineering companies working in the field of biogas plants.

**Envis Srl \*\*\***

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www	www.envis.it	
Organisation Type	Company	

**Contact Person**

Name	<b>Luciano Danieli</b>
Position	employee

Areas of activity	Type of co-operation	
» Techniques for the re-use of water	Licence agreement	» Offer
» Treatment and disposal of the resultant sludge	Technical Co-operation	» Offer
» Energy from waste and biomass	Technological Co-operation	» Offer
» Biomass, bio-gas	Joint research project	» Offer
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

**Short description of company**

**ORGANISATION HISTORY/EXPERIENCE:**  
 Envis S.r.l. is an Italian Engineering Company placed in Bologna (Italy), established on 2001 within the Treatment and Water Cycle Section of ENEA (Italian National Agency for New Technologies, the Energy and the Environment), thanks to the skills acquired by Environmental Engineers and PhDs in Sanitary Engineering. A multidisciplinary team is able to offer services in several environmental fields such as civil and industrial wastewater treatment, (waste)water reuse, anaerobic digestion of different substrates (livestock manure, organic substrates from agriculture and agri-food industry, sewage sludges, etc.) aimed at renewable energy production, remediation of contaminated sediments, environmental impact assessment (including acoustic measurements and diagnosis), energetic certifications, assistance in EU and national funded project proposals elaboration.

- FIELD OF ACTIVITIES:**
- Wastewater treatment for civil and industrial sector
  - Water reuse in municipal treatment plants and in the industrial sector
  - Renewable energy production
  - Energetic certification of households and industries
  - Analytical characterization of wastewater and substrates for treatment purposes

- MAIN PRODUCTS/SERVICES:**  
 In the above listed fields, Envis is responsible for:
- Preliminary, definitive and executive design concerning technological plants for waste and wastewater



biological, physical and chemical treatment, including anaerobic digestion treatment aimed at renewable energy production;

- Lab tests for waste and wastewater characterization, and for organic substrates biomethanization potential evaluation, supporting plants design and monitoring.
- Advice and assistance in plants construction;
- Assistance in plant start-up and monitoring, through dedicated site visits aimed at optimizing the treatment efficiency. Dedicated service for biological treatment plant monitoring;
- Assistance during the authorization process aimed at the realization of technical plants, including the relations with all the competent authorities;
- Assistance for writing and implementing financed project proposals, providing a local technical support.

**TECHNOLOGIES:**

- Sequencing Batch Reactors (SBRs) and any Activated Sludge process for biological nutrients removal
- Anaerobic Digestion Process through CSTR and Plug Flow reactors aimed at renewable energy production from the biogas
- Biochemical Methane Potential (BMP) evaluation of organic substrates
- Water Reuse technologies

**Services - Rain water management (treatment and recovery)**

Envis proposes interventions in the field of municipal (basin level) and industrial water run-off management and treatment.

Typically, rainwater contains several pollutants that need to be removed in order to avoid the diffused contamination of water bodies, as for instance:

- Sediments
- Oil, grease and toxic chemicals from motor vehicles
- Pesticides and nutrients from lawns and gardens
- Viruses, bacteria and nutrients from pet waste and failing septic systems
- Road salts
- Heavy metals from roof shingles, motor vehicles and other sources

Thermal pollution from dark impervious surfaces such as streets and rooftops

A proper stormwater management requires an integrated approach including the peak flows control and the water treatment as to prevent the discharge of the above mentioned elements and to sustain the physical and chemical properties of aquatic habitat.

Pollutant are normally removed through some combination of structural BMPs through the basic mechanisms of:

- Physical removal
- Settling
- Filtering
- Chemical reaction
- Biochemical Transformation.

**DETAILED DESCRIPTION:**

At industrial level, any productive activity with specified features (minimum impermeable surfaces and type of use), is forced by National and Regional Laws to provide to rainwater management and treatment, in order to minimize the environmental impact caused by its uncontrolled discharge. Usually, dedicated degrease units and collection tanks are installed in order to collect and treat the first flush before its final discharge.

At urban level, a proper stormwater management is recommended as to limit the diffused pollution of water

bodies. For this purpose a preliminary rainwater separation through a dedicated drainage network is required. The rainwater can then be diverted in appropriate devices (classified as Best Available Techniques – BATs) aimed to provide both a flow rate peaks regulation and a first flush treatment (e.g., sedimentation basins, wet ponds, grass swales, stormwater wetlands, sand filters, dry detention, etc.).

#### MAIN ADVANTAGES / BENEFITS:

Environmental benefits of stormwater treatment consist in a reduced diffused pollution of water bodies. Such advantages correspond to specific legislative constraints, especially at industrial level.

Economical benefits may be obtained with water reuse applications in any field where a lower water quality is acceptable.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

At industrial level, rainwater treatment devices consist in earthen and easy-to-maintain treatment devices which allow to comply with legal requirements on first-flush discharge. Each treatment system will be designed according to the specific needs and requirements and, when appropriate, it will be coupled to rainwater recovery and reuse facilities.

At urban level, Best Management Practices (BMPs) allow to reduce the final discharge of pollutants by applying different steps:

- drainage basin assessment (sources analysis, surface characterization);
- quantitative evaluation of the rainwater and of the peak flow rate during a storm event;
- identification of the plant site and design of the appropriate treatment facilities (classified as Best Available Techniques), even for reuse applications.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

- Any productive activity which is compelled to provide to a rainwater (first flush) treatment and who desires to apply a rainwater recovery.
- Municipalities or Basin Authorities who are interested in stormwater collection, treatment and recovery, through specific practices (BMPs).
- Suppliers or engineering companies involved in the field of rainwater treatment and recovery.

## Epik

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Organisation Type	Company	

### Contact Person

Name	<b>Eng. Alessandro Caraglio</b>
Position	CEO

Areas of activity	Type of co-operation
» Solar energy	Licence agreement »
» Energy saving and efficiency	Technical Co-operation » Offer
	Technological Co-operation » Offer
	Joint research project » Offer
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Epik specialised in industrial hardware control software solution has developed a new technology of energy conditioning for best efficiency in photovoltaic panels.

The proposed method performs additional measurements of power without any perturbation, to make the neural network learn the actual environment condition and then perturbate the power point.

The company is looking for industries involved in solar market for a technical cooperation.

### Distribution - Energy conditioning system for best efficiency photovoltaic panels

#### DETAILED DESCRIPTION:

PhotoVoltaic (PV) solar electricity together with solar thermal has the highest potential of all the renewable energies since solar energy is a practically unlimited resource, available everywhere.

The power delivered by the PV module depends on the irradiance, temperature and shadowing conditions. The PV panel has a nonlinear characteristic, and the power has a Maximum Power Point (MPP) at a certain working point, with voltage and current coordinates. Since the MPP depends on solar irradiation and cell temperature, it is never constant over time, so a Maximum Power Point Tracking (MPPT) technique should be used to track its changes.

The proposed method performs additional measurements of power without any perturbation, to make the neural network learn the actual environment condition and then perturbate the power point.

In this way, the algorithm can track the MPP:

- rapidly changing irradiance
- partially shaded conditions
- no instability across the MPP
- always correct tracking direction

Experimental tests show that with this MPPT method, the PV array is always tracked in the best possible way, so the efficiency is every time across one-hundred percent. This means that the overall power drawn by the panel is increased, and the wasted power due to a inefficient tracking method will not be dissipated by the panel anymore. As the PhotoVoltaic cell temperature decreases the temperature, as the efficiency increases, so this method can also improve this PV point of view.

The measured average dynamic efficiencies of the old methods are about 92%, while the one of the proposed technique goes around 98%. In addition, in partially shaded or rapidly changed condition, the average energy gain is 25%.

Taking advantage of the Neural Network Maximum Power Point tracking method, this technology solves the remaining problem related to dark PV cells calculating, cycle by cycle, the total amount of energy available from every panel. This power conditioner also evaluates if a panel can bring the minimal amount of power needed to be part of the PV array, switching from three working behaviours:

- Panel Bypass
- No conditioning
- Neural Network Maximum Power Point Tracking (NNMPPT)

1) Panel Bypass simply disconnects the panel from the array.

2) No conditioning means that there is no power modification function done by the system. It is only a monitoring mode that allows the user to control a complete set of panel's parameters (voltages, currents, temperatures, etc.)

3) NNMPPT mode controls the power flowing from the panels to the Inverter(s), allowing control of parameters and real time benefits of this technique.

The system is a really versatile power conditioner. It has two inputs and one output and it can be used to improve only one panel (two cells array set) two panels or two arrays. In standard installations, every input handles one panel.

**MAIN ADVANTADGES / BENEFITS:**

Best performance (+25%) with worst meteo condition as snow as rain, worst light condition, with shadows.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

The company is interested in cooperation with any others interested in a technical cooperation

## EQO Srl

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Organisation Type	Company	

### Contact Person

Name	<b>Andrea Zanfini</b>
Position	environmental consultant

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Offer
» Waste selection and recycling	Technical Co-operation	» Offer
» End products made with salvaged material	Technological Co-operation	» Offer
» Eco-design and eco-compatible materials	Joint research project	» Offer
» Saving water in intensive industrial manufacturing	Manufacturing agreement	»
» Energy from waste and biomass	Commercial agreement	» Offer
» Wastes processing and their utilization as secondary raw materials	Financial agreement	»
» Solar energy		
» Wind energy		
» Energy saving and efficiency		
» Building materials		
» Heating equipments		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

For over fifteen years the partners of EQO Ltd have been active in providing high quality environmental services to companies of different size and market sector.

#### FIELD OF ACTIVITIES:

We are operating at 360 degrees on environmental and energy issues, going from the development of environmental management systems (UNI 14001, EMAS, UNI 16001, etc.) to life cycle assessment and eco-design of different types of products, services and processes.

#### MAIN PRODUCTS/SERVICES:

Our activity is motivated by the request coming from different kind of social components with the aim to improve knowledge and information on environmental issues. We believe that the success of a product is increasingly linked to an extended concept of quality, where aspects of environmental and social sustainability





are gaining more importance and interest from the public and consumers. We believe that, nowadays, the success of a product and its competitiveness in the market depends upon the capacity to be acceptable from the environmental point of view; an other condition for the success of a product is the ability to communicate correctly its proprieties on the bases of scientific studies and environmental friendly design able to satisfy the need of the consumers.

**TECHNOLOGIES:**

We provide a framework of knowledge needed to understand the market opportunities and the role of the main tools for the evaluations of the environmental performance of products/processes/services and the important of environmental communication for the growth and the success of a new generation of products developed on the bases of sustainability principles and eco-management. We had the capability to make environmental studies based on LCA methodology; in such a way our design activity make possible to re-engineer products or services by pursuing the objectives of eco-efficiency and by identifying the appropriate tools for the communication addressed to the stakeholders. We also develop environmental and energy management system to get international certifications like ISO 14001 and EMAS or 16001 for energy, and testify our sustainable commitment.

**Consulting - We search company interested to innovate their products and services focusing on environmental issues (LCA and ECO-design) to expand or open new marke**

**DETAILED DESCRIPTION:**

We are operating at 360 degrees on environmental issues and energy saving, going from the development of environmental management systems to life cycle assessment of different types of products, services and processes.

**MAIN ADVANTADGES / BENEFITS:**

The main benefits are tied to the possibility to innovate their products and services, and, by international standards demonstrate their environmental and energy performance and therefore to emerge on the market through green marketing.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

We offer the following services:

- Life Cicle Assesment (LCA);
- Product Reengineering and ECO-Design;
- Environmental Product Declaration (EPD);
- Carbon Foot Print;
- Environmental and Energy Sistem Management (ISO14001, EMAS, Ecolabel, ISO 16001, etc.);
- Green Marketing.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Every company who want to innovate our products and every services company who want to improve our service.



## ESC Ecological Services Company Srl

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www	www.escambiente.it	
Organisation Type	Company	

### Contact Person

Name	<b>Francesco Barile</b>
Position	Partner

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Request
» Waste collection	Technical Co-operation	»
» Waste storage and transport	Technological Co-operation	»
» Treatment of wastewater and water for domestic consumptions	Joint research project	» Offer/Request
» Techniques for the re-use of water	Manufacturing agreement	» Offer/Request
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

ESC Ecological Services Company srl operates in the ecological sector and offers services and advice to public organizations and companies. Thanks to a dynamic management, finalized to optimize the offered services and to the costs reduction, it can offer customized services on the basys of the needs of the clients.

FIELD OF ACTIVITIES: Waste management, Waste collection, Waste storage and transport, Treatment of wastewater, techniques for the re-use of water, training, planning

#### MAIN PRODUCTS/SERVICES:

Dangerous and not dangerous waste collection, transport and storage; planning, realization and management of plants for the water treatment; security plans; planning activity for green areas and waste collectin areas;

### Services - Offer of services in the frame of water and waste treatment

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

- manufacturer, maintenance firm and/or manager of waste contaminated water treatment plants;
- manufacturer, installer of treatment/draining ground water plants
- manufacturer of purification plants
- Manager of waste dumping
- Waste producer

## eton energia spa

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www	www.etonenergia.com	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandro Guglielmi</b>
Position	general manager

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste storage and transport	Technical Co-operation	»
» Energy from waste and biomass	Technological Co-operation	»
» Wastes processing and their utilization as secondary raw materials	Joint research project	»
» Biomass, bio-gas	Manufacturing agreement	»
» Solar energy	Commercial agreement	» Offer
» Wind energy	Financial agreement	»
» Geothermal energy		
» Energy saving and efficiency		
» Thermal disposals		
» Energy conversion		
» Secondary fuels		
» Building materials		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** Eton is a Corporation devoted to the in-depth analysis and production of environmental energy. Eton System provides accurate solutions of energy specifically for photovoltaic, solar power and geothermal plants.

**MAIN PRODUCTS/SERVICES:** Production, national Energy assignment network, throughout the set-up of mid and large size Photovoltaic plants, specifically planned to maximise the productivity and to dramatically reduce pollution.

Provision of all Photovoltaic plants, solar panels and geothermal ones for both individuals and private Companies  
Importation of Photovoltaic endorsements which abide by IEC codes 61215 ed. 2, with the acquisition of both mono cells and polycrystals. These are utilized to ensure quality and continuous service to its own plants and to the clients themselves.

## EURO MEC S.R.L.

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Organisation Type	Company	

### Contact Person

Name	<b>Benedetta Belladelli</b>
Position	COMMERCIAL ASSISTANT

Areas of activity	Type of co-operation	
» Treatment of wastewater and water for domestic consumptions	Licence agreement	»
» Saving water in intensive industrial manufacturing	Technical Co-operation	» Offer/Request
» Techniques for the re-use of water	Technological Co-operation	» Offer/Request
» Treatment and disposal of the resultant sludge	Joint research project	»
» Sewage facilities	Manufacturing agreement	» Offer
» Sewage services	Commercial agreement	» Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The EURO MEC S.r.l. technical staff is the heart of our firm and can boast years-lasting experience on the Environmental Engineering field, specialized in planning and managing commissions for plants to be built or tools and technologies for civil and industrial discharge water as well as drinking water plants.

#### FIELD OF ACTIVITIES:

Our tools are the following:

- Planning and feasibility studies of depuration plants, water treatment plants, first rain plants and drinking water plants
- Detail engineering
- Commission development
- Purchase managing with a technical-sales supervisor regarding equipment and plants.

#### MAIN PRODUCTS/SERVICES:

- BIOLOGICAL WATER PURIFICATION PLANTS FOR BIG AND SMALL COMMUNITIES
- DRINKING WATER AND DESALINIZATION PLANTS FOR BIG AND SMALL COMMUNITIES
- DRINKING WATER PLANTS AND WATER BAG PREPARATION AS NEEDED IN EMERGENCY SITUATIONS
- CHEMICAL-PHYSICAL AND TECHNOLOGICAL PLANTS
- RAIN WATER TREATMENT PLANTS



- OIL AND HYDROCARBON SEPARATION PLANTS
- RECYCLED WATER TREATMENT PLANTS FOR IRRIGATION

**TECHNOLOGIES:**

The EURO MEC S.r.l. plants and tools are chosen or proposed according to the highest quality and safety standards.

The EURO MEC S.r.l. planning staff cooperates with the most important European partners in order to study and realize the most advanced technologies on the environmental field.

**Export - Euro Mec is looking for parnters all over the world**

**DETAILED DESCRIPTION:**

EURO MEC S.r.l. works together with government and non government organisations on projects for the supply of drinking water treatment plants, waste water treatment plants, spare parts and consumables and also works to guarantee the correct setting up operation and future maintenance of plants by and supporting local technicians thus contributing to the rehabilitation of water provision infrastructures and allowing populations to independently operate and maintain the supplied water treatment plants.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

EURO MEC S.r.l. is proud to be working with the United Nations Peacekeeping Operations for the supply of modular waste water treatment plants specially designed to meet the needs of UN missions around the world. EURO MEC S.r.l. also works with UNICEF for the supply of lightweight, mobile drinking water plants to worldwide locations. In addition, a series of EURO MEC drinking water plants have been supplied as part of the UNEP's environmental management projects in Iraq.



## EUROMECC SRL

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www	www.euromec-brooms.it	
Organisation Type	Company	

### Contact Person

Name	<b>GIUSEPPE CHIANTARETTO</b>
Position	MANAGER AND OWNER

Areas of activity	Type of co-operation
» Other Energy topics	Licence agreement »
	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

EUROMECC srl boasts more than 50 years experience in the manufacturing of outdoor brooms. The ongoing technical development allowed Euromec to quickly adopt in its products innovative materials and techniques, introducing into the market models that stand out for their long life and efficiency. In designing and manufacturing its products, Euromec always keeps the final user in mind, in order to allow him to achieve best results with minimum physical effort.

For the last few years, design and manufacturing have been focused on a few patented models which cover the wide range of tasks involved in cleaning outdoor areas, even considering the different surfaces to treat. These brooms have been chosen by leading private companies and municipal utilities, proving their successful efficiency both in Italy and abroad.

Colour, weight and length of Euromec brooms can be customized according to any customer's need, keeping always an eye on the environmental impact. The range of products is completed by other cleaning equipment and tools: multi-purpose carts, rakes, dustpans, multi-purpose pliers.

FIELD OF ACTIVITIES: manufacturing of outdoor brooms and Ecological products

#### TECHNOLOGIES:

BROOMS AND TOOLS FOR ECOLOGICAL OPERATORS AND FOR HAND SWEEPING



**Distribution - WE SEARCH FOR DISTRIBUTOR FOR BROOMS AND OTHER ECOLOGICAL TOOLS IN AUSTRIA , GERMANY, DENMARK, UK AND CANADA**

DETAILED DESCRIPTION: We looking for distributors in AUSTRIA , GERMANY, DENMARK, UK AND CANADA

MAIN ADVANTAGES / BENEFITS: design and manufacturing have been focused on a few patented models which cover the wide range of tasks involved in cleaning outdoor areas, even considering the different surfaces to treat.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Distributors

## EURVEN divisione Ambiente&Vendite di Euromeccanica Group

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Organisation Type	Company	

### Contact Person

Name	<b>Lorenzo Fanton</b>
Position	

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Offer/Request
» Waste collection	Technical Co-operation	» Offer/Request
» Waste storage and transport	Technological Co-operation	» Offer/Request
» Waste selection and recycling	Joint research project	» Offer
» Saving water in intensive industrial manufacturing	Manufacturing agreement	» Offer/Request
» Energy from waste and biomass	Commercial agreement	» Request
» Wastes processing and their utilization as secondary raw materials	Financial agreement	»
» Energy saving and efficiency		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Euerven is the Environment&sales department of Gruppo Euromeccanica, certificate uNI EN Iso 9001:2000 and 14001:2004. The working style and approach that have always characterized our group have given life to EUrGrEEen, a real philosophy, a modus operandi. We are convinced that it is useless to look for new oilfields or aluminum mines: the world has everything it needs. We hide our waste and produce new waste, but now it is time to stop. our waste is also our main resource. It only takes a bit of recycling education and technologies that make these passages easier and cause the least possible impact. The range of EUrGrEEen products respects these basic principles, that for us are at once reasons for pride and aims to achieve.

#### FIELD OF ACTIVITIES:

Euerven plans and produces eco press-machines for waste materials.

#### MAIN PRODUCTS/SERVICES:

Stand alone Eco press-machines stand-alone, mobile eco press-machines, eco press-machines for special use.



**Export - Eco press-machines for waste materials. EURVEN is looking for parnters or distributors all over the world**

**DETAILED DESCRIPTION:**

The concept of the distributed diferentiation/compaction, that is at the basis of Eurgreen philosophy, allows to drastically reduce the process of reutilization and recycling of materials.

As shown in the diagram, the waste of marketed products treated with Greeny can be directly handled to transformation industries for their reutilization with great money and time saving.

**MAIN ADVANTADGES / BENEFITS:**

At home or in your small firm you will appreciate the advantages of our manual or automatic systems, with tangible time and space saving. thanks to our technology, also urban centres will reduce management costs up to 80% !

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** EURVEN is looking for parnters or distributors all over the world

### F3 Consulting S.r.l.

Page: 194

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www		
Organisation Type	Company	

#### Contact Person

Name	<b>Riccardo Ferrari</b>
Position	Executive Partner

Areas of activity	Type of co-operation	
» Waste selection and recycling	Licence agreement	» Offer/Request
» End products made with salvaged material	Technical Co-operation	» Offer/Request
» Eco-design and eco-compatible materials	Technological Co-operation	» Offer/Request
» Techniques for the re-use of water	Joint research project	» Offer/Request
» Cooling and ventilation equipment	Manufacturing agreement	» Offer/Request
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Commercial agreement	»
» Sustainable mobility electric vehicles	Financial agreement	»
» Energy from waste and biomass		
» Biomass, bio-gas		
» Solar energy		
» Wind energy		
» Water energy		
» Geothermal energy		
» Energy saving and efficiency		
» Building materials		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

#### Short description of company

##### ORGANISATION HISTORY/EXPERIENCE:

F3 Consulting S.r.l. management team gained experience in managing team of researchers from universities (ENEA, Turin Politecnico, Milan Politecnico, Spe.Vetro, Physics Dept. of UCSC Brescia) and managers from industrial companies creating and launching on the domestic and international market a new thin film photovoltaic product.

Mr. Riccardo Ferrari (see the picture) Executive Partner of F3 Consulting is registered as Expert of Research Activities in the 7th EU framework program.





**FIELD OF ACTIVITIES:**

F3 Consulting S.r.l. is a consultancy firm ready to face new globalization challenges along with businessmen and entrepreneurs. It is based on a determined and flexible professional team with experience in industry and finance. F3 Consulting S.r.l. apply to companies belonging to the industrial sector, whose products and services are characterized by a high level of technological innovation.

**MAIN PRODUCTS/SERVICES:**

- Project Management
- Developing and enhancing innovative attitude
- Identifying sustainable business models for growth
- Spotting and defining the right target markets
- Aim to the appropriate financial structure

**TECHNOLOGIES:**

- Photovoltaic modules based on silicon amorphous thin film deposited on glass.
- Building integration of PV modules.

**Research - Partnership to participate in a applied research project in EU 7th framework program with VTT Reasearch Center of Finland.**

**DETAILED DESCRIPTION:**

Partnership to realize a new building prototype in Finland and/or Portugal with the integrated application of: Photovoltaic thin film modules, Heat pump, Solar thermal panels, micro turbine based on Biomass Organic Rankine Cycle.

**MAIN ADVANTADGES / BENEFITS:**

The whole application is managed by an electronic unit and the application-size optimization reduce strongly the costs of the system and allow to have a very short pay-back time. The project aims to have the worldwide fastest payback zero-energy building.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

- Photovoltaic thin film modules deposited on glass: high scale and low production costs technology, glass transparency, building integration.
- Solar thermal panels and water heat pump able to use the heating coming from PV modules (less than 50°C);
- Micro turbine based on Biomass Organic Rankine Cycle: to produce efficiently domestic power needs from biomass.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

- Research center and/or university.
- Technology based industrial companies.

**Research - Partnership to participate in a applied research project in EU 7th framework program and/or EU or UNO programs dedicated to rural area development.**

**DETAILED DESCRIPTION:**

Partnership to develop a low-cost integrated system (Photovoltaic modules - Recycling battery - DC/AC converter) able to be applied in wolrd rural area as stand-alone application.



**MAIN ADVANTADGES / BENEFITS:**

The low-cost optimized application should help the rural area where the power lines are not economic convenient.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Low cost Photovoltaic modules (recycling modules)

Recycling battery optimized for a one-day-cycle charge-discharge. 3kW peak in power.

DC/AC converters 3kW peak in power.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Research center and/or university.

Technology based industrial companies.

## Fabbrica Pinze Schio srl

Page: 197

Address	Via Campilonghi 3 36014 - Santorso	<b>Italy</b>
Phone	+390445640399	
Email	info@zemaonline.com	
www	www.zemaonline.com	
Organisation Type	Company	

### Contact Person

Name	<b>Giulio Casiraghi</b>
Position	Sale Manager

Areas of activity	Type of co-operation
» End products made with salvaged material	Licence agreement »
» Eco-design and eco-compatible materials	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: productios and commercialisation of bio and compostable products for the table ( ho.re.ca. and GDO )

MAIN PRODUCTS/SERVICES: fork, spoon and knife made in mater bi; cardboard and mater bi coffee cups: P.L.A. drinking cup

### Distribution - Dsistributor of bio products for the public and the household

DETAILED DESCRIPTION:fork, spoon and knife made in mater bi; cardboard and mater bi coffee cups: P.L.A. drinking cup

MAIN ADVANTADGES / BENEFITS: use of our article with the humid waste: non separation is required

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): all our article are fully certified accordingly to European standards and normes

## FABER - Advanced Technologies for the Environment

Page: 198

Address	Via Parrocchia 29 80146 - Naples	<b>Italy</b>
Phone	+39815645173	
Email	direzione@faberambiente.it	
www	www.faberambiente.it	
Organisation Type	Company	

Contact Person	
Name	<b>Massimo Mendia</b>
Position	Managing owner

Areas of activity	Type of co-operation
» Waste collection	Licence agreement »
» Waste selection and recycling	Technical Co-operation »
» Energy from waste and biomass	Technological Co-operation » Offer
» Biomass, bio-gas	Joint research project » Offer
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement » Offer

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Faber operates in Italy since over 23 years, in the field of automation technology applied to waste management. It is now a group of brilliant and motivated young engineers and technicians of various specializations led by managers with extensive experience in the business, backed by financial opportunities for specific cases. Nearly 40 municipalities have been served, in Italy, with ECO-Value, a new advanced PAYT - REC (Pay As You Throw – save as RECYcle) turn-key system.</p> <p><b>FIELD OF ACTIVITIES:</b> Waste management engineering with emphasis on the best economics of the collection and recycling as well as anaerobic digestion for the treatment of the organic fraction. Design, engineering, turn key supply and operation of ECO – Value, the most complete, effective and convenient implementation of PAYT – REC (Pay As You Throw but Save As You RECYcle) waste management and pricing system, specific for each scenario. In particular, Faber designs, manufactures and services all the mechanical and electronic equipments, software modules, wireless transmission systems and related services supporting ECO - Value, most of which are covered by patents.</p> <p><b>MAIN PRODUCTS/SERVICES:</b> ECO-value is an innovative and complete system, developed by Faber with exclusive patented technologies, for the application of PAYT – REC to just any town or village, however big or small, with any typical urban structure, whichever combination of recyclable and non-recyclable waste collection schemes (bags, small and large bins,</p>



bells, etc.) were applied.

ECO-value aims to make recycling and waste reduction profitable for both the Users and the Waste Managers because it identifies the producers of wastes, both recyclable and non-recyclable, measures weights and volumes, and provides economic and social incentives to the citizens most active to follow the recycling and waste reduction schemes pursued by the specific Municipality.

ECO – Value implements the key 3C of a successful waste management scheme: CONVENIENCE, COMFORT and COMMUNICATION by applying the most adequate choice of technologies to any urban situation and mix of waste collection procedures.

In particular, in order to obtain the best profitability, waste recycling is incentivated while keeping a strict control on its quality by advanced, patented technologies.

And waste reduction is supported by implementing, controlling and prizing the use of automatic distributors for water, soaps, etc. which reduces waste packaging.

The communication campaign involves several initiatives aimed at schools, small shops and large Commercial Centers.

An Internet site is developed by which each User, the City managers, the private business participating to the incentive campaign, all can feel to be part of the success of the initiative, and find their convenience.

#### TECHNOLOGIES:

Contact and contactless badge reading; barcode reading; electronic weight measurement; electronic circuit and board development; several types of electronic sensors; wireless data transmission; GPS position decoding; motor controls; photovoltaic energy generation, etc.

### **Services - Commercial companies or professional groups willing to exploit together the market opportunities for ECO-Value in selected areas .**

#### DETAILED DESCRIPTION:

ECO – Value is an innovative, complete and very flexible system for the most effective and economic management of urban solid wastes, aiming at 1) decreasing the overall waste production, 2) increasing the recycled fractions 3) maximize the quality of the recycled material in order to get the best market value. ECO-value implements the socially equitable waste pricing scheme defined PAYT / REC i.e. “pay as you throw / save as you recycle”.

ECO –value is an application-specific combination of mostly exclusive electronic and mechanical technologies, wireless transmission, software modules that Faber has developed over the years and is now launching on the international market after over 12 years of experience in Italy.

#### MAIN ADVANTADGES / BENEFITS:

ECO-Value monitors and controls weighs, qualities and volumes of both recyclable and non-recyclable wastes produced by each users, either household or commercial, in order to, first of all, reduce the cost of waste management and then distribute such costs as equitably as possible over the whole population, by the criteria that the City management will envisage.

The expected results include:

- Reduction of urban waste weights and volumes by more focused attention to the problem and by the convenience of using automatically distributed packing—less liquids such as mineral water, milk, soaps, etc.
- Increase of quantity of separately collected recyclable fractions by incentivating the separate collection of such fractions.
- Improvement of the quality of collected recyclable materials by a set of various automatic material quality control techniques placed at the point of collection, however it were done.
- Much less or nil abandonment of scattered wastes, since there is no advantage by hiding wastes and because,



anyhow, all the wastes are monitored, user by user.

- Participation and satisfaction of the citizens by the money saving and the community recognition.

If the approach is positive, i.e. prizing the ones who do the right thing (increase recycle and reduce weights and volumes of residual non-recyclables) rather than prohibitive, i.e. charging the ones who do the wrong things (producing much non-recyclable wastes) everybody wants to participate and nobody will infringe the rules, with much higher efficiency for the Waste Manager, better acceptance by the users, much lower costs then chasing out the transgressors and cleaning up wastes abandoned here and there.

The low costs, simple operation and easy installation of ECO-Value leads to reach, at the same time, the 3 critical C's of the best waste management schemes: CONVENIENCE, COMFORT, COMMUNICATION.

This is a good starting point...

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

ECO-value is a system composed by a proper mix of equipments, data transmission and software modules which can be applied to any specific urban structure such as typical in Europe, i.e. a widely variable combination of single houses, small/medium/large condominiums, business and commercial areas, up to specific Waste Recycling Centers placed outdoor or indoor shopping malls etc.

ECO-value has specific, unique and effective solutions for each mode of waste collection such as bags, wheeled or not-wheeled bins, and can be applied to the collection of either recyclable fractions, such as paper, cardboard, metal tins and can, glass bottles and jars, plastic bottles, etc. or non recyclable residual wastes, measuring its weight and/or volume.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

An organization experienced in selling investment goods and technologies to waste management utilities and service companies

### **Other - Municipalities and consortia thereof interested to implement ECO-value in their territories**

**DETAILED DESCRIPTION:**

ECO – Value is an innovative, complete and very flexible system for the most effective and economic management of urban solid wastes, aiming at 1) decreasing the overall waste production, 2) increasing the recycled fractions 3) maximize the quality of the recycled material in order to get the best market value. ECO-value implements the socially equitable waste pricing scheme defined PAYT / REC i.e. “pay as you throw / save as you recycle”.

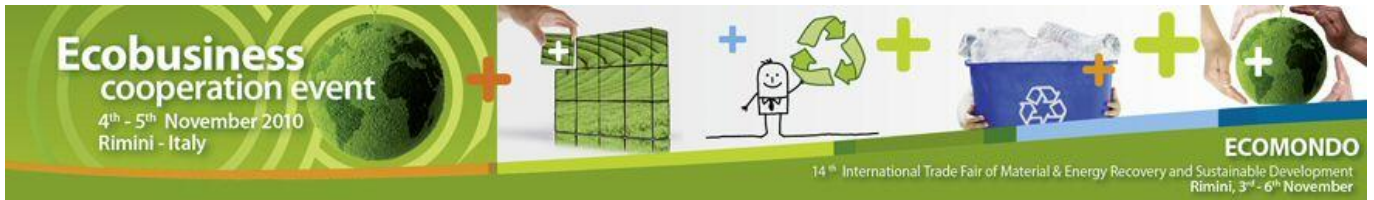
ECO –value is an application-specific combination of mostly exclusive electronic and mechanical technologies, wireless transmission, software modules that Faber has developed over the years and is now launching on the international market after over 12 years of experience in Italy.

**MAIN ADVANTADGES / BENEFITS:**

ECO-Value monitors and controls weighs, qualities and volumes of both recyclable and non-recyclable wastes produced by each users, either household or commercial, in order to, first of all, reduce the cost of waste management and then distribute such costs as equitably as possible over the whole population, by the criteria that the City management will envisage.

The expected results include:

- Reduction of urban waste weights and volumes by more focused attention to the problem and by the convenience of using automatically distributed packing-less liquids such as mineral water, milk, soaps, etc.
- Increase of quantity of separately collected recyclable fractions by incentivating the separate collection of such fractions.
- Improvement of the quality of collected recyclable materials by a set of various automatic material quality control techniques placed at the point of collection , however it were done.



- Much less or nil abandonment of scattered wastes, since there is no advantage by hiding wastes and because, anyhow, all the wastes are monitored, user by user.

- Participation and satisfaction of the citizens by the money saving and the community recognition.

If the approach is positive, i.e. prizing the ones who do the right thing (increase recycle and reduce weights and volumes of residual non-recyclables) rather than prohibitive, i.e. charging the ones who do the wrong things (producing much non-recyclable wastes) everybody wants to participate and nobody will infringe the rules, with much higher efficiency for the Waste Manager, better acceptance by the users, much lower costs then chasing out the transgressors and cleaning up wastes abandoned here and there.

The low costs, simple operation and easy installation of ECO-Value leads to reach, at the same time, the 3 critical C's of the best waste management schemes: CONVENIENCE, COMFORT, COMMUNICATION.

This is a good starting point...

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

ECO-value is a system composed by a proper mix of equipments, data transmission and software modules which can be applied to any specific urban structure such as typical in Europe, i.e. a widely variable combination of single houses, small/medium/large condominiums, business and commercial areas, up to specific Waste Recycling Centers placed outdoor or indoor shopping malls etc.

ECO-value has specific, unique and effective solutions for each mode of waste collection such as bags, wheeled or not-wheeled bins, and can be applied to the collection of either recyclable fractions, such as paper, cardboard, metal tins and can, glass bottles and jars, plastic bottles, etc. or non recyclable residual wastes, measuring its weight and/or volume.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Municipalities and/or consortia thereof interested to search best available technologies for their citizens



## Fase Engineering S.r.l.

Page: **202**

Address	Talete 10/10 47122 - Forlì	<b>Italy</b>
Phone	+39 0543 798472	
Email	ufficiostampa@fasenet.it	
www	www.fasenet.it	
Organisation Type	Company	

### Contact Person

Name	<b>Matteo Balelli</b>
Position	Purchase Manager

Areas of activity	Type of co-operation
» Solar energy	Licence agreement
» Wind energy	Technical Co-operation
	Technological Co-operation
	Joint research project
	Manufacturing agreement
	Commercial agreement
	Financial agreement

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: Since 2000 Project and install PV System ( core business ) Thermal e Mini-Wind systems; Over 15MW Complete with TurnKey system and over 130MW of PV plants install like sub-contractor

FASE Engineering S.r.l. was established with the aim to provide Italian and foreign Companies and Organizations with specialised and high quality services.

FASE Engineering bases its activity on transparency and professional reliability in order to guarantee the best results.

FASE Engineering is a dynamic company that is able to satisfy its Customers needs, improving economy and effectiveness, and optimising production time and operating costs.

FIELD OF ACTIVITIES: Photovoltaic

MAIN PRODUCTS/SERVICES: Development / Project and Install

### Import - Partnership with Manufactur for the best service to customers

DETAILED DESCRIPTION:

Design and install green energy systems



MAIN ADVANTADGES / BENEFITS:

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Manufactur of PV Modules or Inverters

**Subcontracting - Development, project, install and service for customers in Eastern Europe and Saudi**

DETAILED DESCRIPTION:

Design and install green energy systems

Alternative and Renewable Energy

Photovoltaic energy

solar thermal energy

Wind energy

Biomass energy

Co-generation energy

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Investors and customer from Eastern Europe (Romania) and Saudi

## Fenice Consulenze di Ahmad Choulak

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Address	Via G. Cagliari, 17 20125 - Milan	<b>Italy</b>
Phone	+39 0236564651	
Email	aziende@feniceconsulenze.it	
www	www.feniceconsulenze.it	
Organisation Type	Other	

Contact Person	
Name	<b>Ahmad Choulak</b>
Position	Mechanical designer, owner of Fenice Con

Areas of activity	Type of co-operation
» End products made with salvaged material	Licence agreement »
» Eco-design and eco-compatible materials	Technical Co-operation » Offer
	Technological Co-operation » Offer
	Joint research project » Offer
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Fenice Consulenze is an individual technical design studio with the aim to support other firms in mechanical design in out-sourcing and/or co-sourcing regime. From 2006 till now, Fenice Consulenze has been giving its technical support to several firms in different fields to design for example Motorcaravans, Heat-exchangers, Alimentary distributors, Optical groups for motorcycles, Domestic appliances, etc. Actually, it designs own products: a particular recycling material system in cardboard and led lighting appliances.</p> <p><b>FIELD OF ACTIVITIES:</b> Design of mechanical parts in different materials such as wood, plastic, steel, cardboard etc using 3D modelling</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Actually, beyond the co-sourcing and out-sourcing regime rapport the company has with some firms, Fenice Consulenze designs own products: a particular recycling material system in cardboard and other led lighting appliances</p>

Manufacturing - System for waste separation of different materials
<p><b>MAIN ADVANTADGES / BENEFITS:</b> One of the projects the company is working on is a system studied to make easier the differentiation of different</p>





materials and its recycling.

This system is completely in cardboard and can be easily mounted in about 5 minutes everywhere it may be needed to keep the environment clean.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Once mounted, its overall dimensions of this system are, in mm, 1220 x 1220 x 1500

It's composed by 4 containers and 1 structure divided in 3 parts.

Internally of the container can be insert the classic coloured plastic bag, in order to make easier for the user, to understand where every kind of trash must be thrown. This system can be also personalized with stickers.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

The company wants to be in contact with firms which are interested in commercialize its main project of a recycling material system in cardboard



## Fima srl

Page: 206

Address	Via Augusto Vanzetti 43 05100 - Terni	Italy
Phone	0744/306716	
Email	silvia.castri@fimagroup.net	
www	www.fimagroup.net	
Organisation Type	Company	

### Contact Person

Name	<b>Giovanni Ceccotti</b>
Position	Sole Administrator

Areas of activity	Type of co-operation	
» Biomass, bio-gas	Licence agreement	» Request
» Solar energy	Technical Co-operation	» Offer/Request
» Wind energy	Technological Co-operation	» Offer/Request
» Water energy	Joint research project	» Offer/Request
» Energy saving and efficiency	Manufacturing agreement	» Offer/Request
» Building materials	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** Fima srl was born on april 2007 and we are specialized in electromechanical maintenance and electromechanical plants. We always want to upgrade ourselves, developing a great know how and this has developed our growing up in manufacturing, railway industry, pharmaceutic, chemical, siderurgic and foos industry. Up to now Fima srl improved its fields activities in oil.dynamic and renewable energy, always following its natural vocation for electricity

**FIELD OF ACTIVITIES:** electric, radiophone, phone and television plants, technological plants, transformation plants of high tension to medium tension and for the distribution of electricity in alternate and continous current, automation, steel and metal carpentry, electromecanic and oil-dynamic maintenance and renewable energy

**MAIN PRODUCTS/SERVICES:** realization, installation and maintentance of electrical plants and piping, electromechanical and oil-dynamic maintenance, installation and maintenance of renewable energy plants

**TECHNOLOGIES:** know how and great experience

### Manufacturing - import/export new products and tecnologies

**DETAILED DESCRIPTION:** we are involved in electromechanical field from a lot of time so we can teach our



experience but we'd like to improve our commerce and we want to specialized ourselves for example in the renewable energy field or in ather international fields

MAIN ADVANTADGES / BENEFITS: It's really important to cooperate to share experience on work.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): we have a great know how in electric, mecanical and oil-dynamic field and we are approaching renewable energy field

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: we'd like to cooperate with manufacturing, consulting and research companies to import/export new products and tecnologies

## Fiume Paolo

Page: **208**

Address	Via Braico, 35 72100 - Brindisi	<b>Italy</b>
Phone	3282517658	
Email	fiume@iamb.it	
www		
Organisation Type	Other	

### Contact Person

Name	<b>Paolo Fiume</b>
Position	consultant

Areas of activity	Type of co-operation	
» Techniques for the re-use of water	Licence agreement	» Request
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Technical Co-operation	» Request
» Solar energy	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Consultant in the field of environmental technologies and renewable energy

#### FIELD OF ACTIVITIES:

environmental and renewable energy

#### MAIN PRODUCTS/SERVICES:

consultant

### **Consulting - looking for a solution a problem of olive oil waste water (OMW) disposal with sustainable cost and friendly application**

#### DETAILED DESCRIPTION:

The process of olive milling generates a liquid waste with remarkable polluting properties due to its high levels of chemical oxygen demand (COD), biochemical oxygen demand (BOD), and phenols. Disposal of such wastewater, known as olive-oil-mill wastewater (OMW), has always been an important issue in the Mediterranean countries, accounting for approximately 95% of the worldwide olive oil production, where the annual amount of OMW is estimated over 30 million cubic meters. Moreover, the problem is particularly hard to be solved because the conventional wastewater treatment methods are relatively ineffective to remove the



above pollutants.

So, an Italian consultant of farm producers is looking for innovative technologies suitable to treat olive oil waste water.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

The technology sought should be easy to use and should have a sustainable cost.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Research organizations or companies with expertise in Wastewater treatment are sought.

They should provide the technology sought ensuring assistance for its use or cooperate for a joint development.



## FLAME SPRAY SPA

Page: **210**

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Phone	+39 039 6957216	
Email	marco.bussoli@flamespray.it	
www	www.flamespray.it	
Organisation Type	Company	

### Contact Person

Name	<b>Marco Bussoli</b>
Position	PM Boilers

Areas of activity	Type of co-operation
» Energy from waste and biomass	Licence agreement »
» Biomass, bio-gas	Technical Co-operation »
» Water energy	Technological Co-operation » Offer/Request
» Geothermal energy	Joint research project » Offer/Request
	Manufacturing agreement » Offer
	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Since 1969 Flame Spray has been the first Italian job shop to actively promote Thermal Spray coatings and cladding activities. Today, it is an international benchmark for applications in Energy Production markets (Waste Burners, Gas turbine, Steam turbine, Oil and Gas Hydro power).

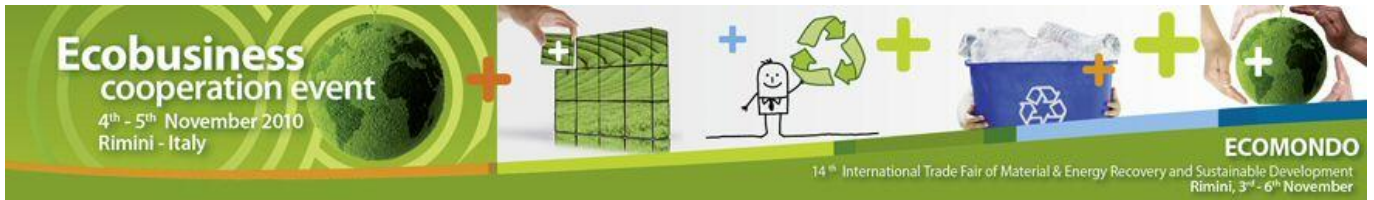
In 40 years of activity it has never ceased to daily develop know-how and technologies in the research and production center of Roncello (Italy), Montefino (Italy) and Szada (Hungary) to increase the performance of materials with Thermal Spray, Diffusion Coatings, Slurry Coatings, Cladding and Welding processes.

#### MAIN PRODUCTS/SERVICES:

Service of coating and cladding for boilers (tubes and panels) and turbines components.  
Service performed in job shop and on site.

#### TECHNOLOGIES:

Weld cladding  
HVOF coating  
Thermal spray  
Slurry coating



## **Manufacturing - Innovative coating treatment to improve corrosion resistance on critical components in boilers.**

**DETAILED DESCRIPTION:** we can offer qualified procedures for corrosion protection coatings/claddings to improve lifetime in boilers. We are interested to cooperate with partners to develop/assess improved technologies for more demanding applications.

**MAIN ADVANTADGES / BENEFITS:** Using municipal waste as a fuel source causes great stress to the metallic components of the boiler. The hot fumes which contain aggressive contaminants, in particular chloride and low melting point ashes, come into contact with the walls of the tubes before they are cleaned. The type and degree of corrosion depends on the position of the component along the gas path.

Flame Spray developed two main families of coating to protect these valuable components: Flameclad, based on Cladding technologies, and Flameseal, based on a patented combination of Thermal Spray and Slurry technologies.

Flame Spray is now the only company offering this range of solutions to optimize costs and benefits of each specific problem.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

### FlameClad

Flame Spray has developed a specific process, FlameClad series, to apply metallic coatings through Pulsed Arc MIG Welding technology. Peculiarity of FlameClad is the possibility to clad carbon or low-alloy steel material with Ni-base alloys without contamination with the base metal. The applied layer has perfect metallurgical bonding, no porosity, Fe content typically lower than 7%.

### Alloy H 500 Series

Flame Spray has developed a specific process, Alloy H 500 series, for metallic coatings through high pressure combustion equipment (HP/HVOF). A peculiarity of the Alloy H 500 series processes consists in the possibility to obtain very dense coatings with excellent bond strength, better oxidation, corrosion and wear resistance than those produced with traditional detonation equipment.

### FlameSeal WW

Flame Spray has developed a specific process, FlameSeal WW series, to apply metallic coatings through High Energy Wire Spray technology. A peculiarity of FlameSeal process is the possibility to easily and quickly apply coatings of Ni-base alloys reducing porosity typical of coatings applied with wire spray systems.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** OEMs. Research Centers.

## Fluid Solutions - alternative S.r.l.

Page: **212**

Address	Via Giacomo Peroni 444 00131 - Roma	<b>Italy</b>
Phone	+39 06 80368962	
Email	info@fluidsolutions-a.com	
www	www.fluidsolutions-a.com	
Organisation Type	Company	

### Contact Person

Name	<b>Emiliano Binotti</b>
Position	General Manager

Areas of activity	Type of co-operation	
» Treatment of wastewater and water for domestic consumptions	Licence agreement	»
» Saving water in intensive industrial manufacturing	Technical Co-operation	» Offer/Request
» Techniques for the re-use of water	Technological Co-operation	» Offer/Request
» Treatment and disposal of the resultant sludge	Joint research project	»
» Sewage facilities	Manufacturing agreement	»
» Sewage services	Commercial agreement	» Offer/Request
» Cooling and ventilation equipment	Financial agreement	»
» Energy from waste and biomass		
» Wastes processing and their utilization as secondary raw materials		
» Biomass, bio-gas		
» Wind energy		
» Water energy		
» Geothermal energy		
» Energy saving and efficiency		
» Thermal disposals		
» Energy conversion		
» Building materials		
» Heating equipments		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Fluid Solutions - alternative is an emerging company which provides products, solutions and tools for complex fluid dynamics problems into innovative sectors. In 2009 was selected as an innovative company from BIC Lazio to be incubated within BIC Itech inside Tecnopolo. Since July 2009 successfully participate to the ESA technology transfer (EBI Italy) proposing a project on the observation of the coasts.



FIELD OF ACTIVITIES: Building Energy Saving, Environment, Biotechnologies, Renewable Energies

**MAIN PRODUCTS/SERVICES:**

Numerical Simulations, Software Tools for Fluid Mechanics and thermal analysis, Experimental Fluid Dynamics.

**TECHNOLOGIES:** Computational Fluid Dynamics, Proximal Sensing, Software Developing

**Supplier - Full Service/Product Co-operation**

**DETAILED DESCRIPTION:**

FS-a offers fluid dynamic analysis using both numerical simulation and experimental devices and provides software tools. All the software products can be tailored to the customer needs, who want to solve complex problems and improve the interactions of fluids, environment, human beings and machines.

Significant examples of application are:

- Renewable sources of energy
- Wind energy
- Environmental fluid-dynamics, pollutants dispersion
- Thermal comfort studies
- Hydropower and environmental impact of marine works

## Fraccaroli e Balzan S.p.A.

Page: **214**

Address	Via Ospedaletto 113 37026 - Pescantina	<b>Italy</b>
Phone	00390456767309	
Email	info@fraccarolibalzan.it	
www	www.fraccarolibalzan.it	
Organisation Type	Company	

### Contact Person

Name	<b>Marco Balzan</b>
Position	

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Techniques for the re-use of water	Technical Co-operation »
» Treatment and disposal of the resultant sludge	Technological Co-operation »
» Sewage facilities	Joint research project »
» Sewage services	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement »

### Short description of company

ORGANIZZAZIONE STORIA / Esperienza :

from 1969 company leader in the waste water treatment and mud dehydration plants. the plants can be used in processing facilities involved in the following productions: tunneling, ready mix truck washing, soil washing, aggregates processing, biologic.

CAMPO DI ACTIVITIES :

waste water treatment and recycling plants  
plants for mud dehydration

### Distribution - WASTE WATER TREATMENT AND MUD DEHYDRATION PLANTS

## Frantoio Oleario Contangelo Rocco & C.

Page: **215**

Address	Contrada Giannina s.n. 75100 - Montescaglioso	<b>Italy</b>
Phone	0835 207332	
Email	contangelo@virgilio.it	
www	www.oliolucanosancanio.com	
Organisation Type	Company	

### Contact Person

Name	<b>Giulia Contangelo</b>
Position	President

Areas of activity	Type of co-operation
» Energy from waste and biomass	Licence agreement »
» Biomass, bio-gas	Technical Co-operation » Offer/Request
» Pellets	Technological Co-operation » Offer/Request
» Solar energy	Joint research project »
» Energy conversion	Manufacturing agreement »
» Other Energy topics	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The San Canio agricultural and Biodynamic farm specializes in growing olives and producing extra-virgin olive oil, olive paste, pickled olives and flavoured extra-virgin olive oil (Trademark "DEMETER").

It covers 40 hectares in the Lucania hills at Montescaglioso (MT), between the Ionian Sea, the stone city of Matera and the Murge.

FIELD OF ACTIVITIES: Production and selling of food products, extra-virgin oil and derivatives

#### MAIN PRODUCTS/SERVICES:

Production of: Biodynamic extra-virgin olive, Organic flavoured extra-virgin olive oil, Pickled olives, Olive patè

TECHNOLOGIES: Biodynamic method called "DEMETER"

### Manufacturing - Manufacturing and renewable energy

#### DETAILED DESCRIPTION:

Our company is specialized in oil production and derivatives of it, such as the olive patè or pickled olives

#### MAIN ADVANTAGES / BENEFITS:

\*The agricultural biodynamic method is based on the use of biodynamic additives of purely natural origin. No





pesticides or synthetic chemical fertilizers are employed, thus guaranteeing product quality. At the basis of this qualitative result is the use of biodynamic preparations that, as the name indicates, use active agents of natural origin prepared according to the techniques of this method by the farmer himself by composting soil and plant materials; these serve as catalysts for dynamic biological processes.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

The Biodynamic extra-virgin olive oil " San Canio" comes from the uncontaminated hills of Lucania, from olives groves cultivated Biologically and Biodynamically \*The olives are hand-picked, stone grinded. The oil is cold extracted in the traditional way and stored mainly in dark glass containairs. Its wholly natural colour is yellow strained with green. Its full flavour, noble and round, is typical of this region

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Companies which deal the same products with innovative method of production and apply it in renewable energies

## FT spa

Page: **217**

Address	Via Cisa, 81 42041 - Lentigione di Brescello	<b>Italy</b>
Phone	+39 522 680424	
Email	federico.aldrovandi@ftspa.it	
www	www.ftspa.it	
Organisation Type	Company	

Contact Person	
Name	<b>Federico Aldrovandi</b>
Position	Buyer

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	»
» Wind energy	Technical Co-operation	» Offer/Request
» Water energy	Technological Co-operation	» Offer/Request
» Fuel cells	Joint research project	» Offer/Request
» Geothermal energy	Manufacturing agreement	» Request
» Energy saving and efficiency	Commercial agreement	» Offer/Request
» Building materials	Financial agreement	»
» Heating equipments		
» Control/metering equipments for heating in buildings		

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> FT spa boast a thirty-years experience in design and manufacturing of tools and buildings equipments. It is one of the most important company in the Italian building trade field, thanks to logistic and manufacturing palnts covering 10.000 m2 area and thanks toa qualified team represented by more than 70 people.</p> <p><b>FIELD OF ACTIVITIES:</b> design and manufacturing of tools and buildings equipments</p> <p><b>MAIN PRODUCTS/SERVICES:</b> design and manufacturing of tools and buildings equipments Our advanced Research and Development centre is involved in the designing and testing of new products suitable for a professional use in the building sites.</p> <p>We have a strong sales network with more than 40 agents that cover the whole italian country. our main customers are professional construction equipment stores and hardware shops. we have a technical department with 3 engineers able to offer a technical assistance/service to our customers.</p>

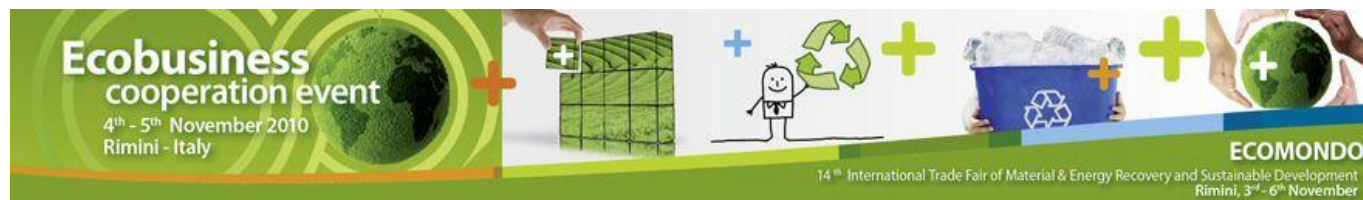


**Distribution - found innovative products to launch in the market**

We are looking for new and innovative products to distribute in the Italian market, especially for renewable energy and energy efficiency in building.

We offer a sales network with more than 40 agents in the whole Italian country.

We offer a technical assistance/service to our customers because we have a technical department with 3 engineers in our company.



## G.T.A s.r.l Gestione Tecnologia per l'ambiente

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Address	III strada Zona industriale, 7 95121 - Catania (CT)	<b>Italy</b>
Phone	095 7357625	
Email	info@gta-ambiente.com	
www	www.gta-ambiente.com	
Organisation Type	Company	

### Contact Person

Name	<b>Mario Reale</b>
Position	Manager

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Energy from waste and biomass	Technical Co-operation » Offer
» Secondary fuels	Technological Co-operation » Offer
» Heating equipments	Joint research project »
	Manufacturing agreement » Offer
	Commercial agreement » Offer
	Financial agreement » Offer

### Short description of company

G.T.A. born in 2006 finalizing its commitment in the study and application of new technologies for the environment.

We deal mainly in the design and manufacture of innovative products designed for industrial environment.

At our factory we are able, with the help of machines in our facilities, to implement processes of shredding, mixing, sifting, drying, weighing, and in our workshop to treat the design and manufacture of industrial machinery and carpentry metal.

Moreover, there being exercised, over the years, the collaboration of prestigious research institutions have developed many industrial processes and we are worried constantly improve the quality of services offered.

#### Mission

occidental society produces a high amount of goods and items to be consumed. While in past eras tended to maintain, repair and recycle, unlike our present way of life, centered on consumerism, produces a large amount of waste for disposal. The problem of waste and the protection of the environment in general affects all, affects the quality of living in our cities, the business plans of many companies and, especially, seems to have become the main worry of many public administrations at national and international .



In this respect, as never before, he feels the need to use new technology to consider the waste is not only an embarrassing encumbrance, but a major source of power and wealth, and which also underpins the re-release in production cycles through equipment and products that marry the full concept of eco-sustainability. In order to achieve this result, G.T.A. arises as a partner of all those who wish to optimize their production processes and management or replace their equipment in innovative ways.

### **Manufacturing - Waste management**

**Polysolver** :Polymer adsorbent for the removal of hydrocarbons from soils and water and for restoration of contaminated soil

POLYSOLVER is a product designed to absorb oils and hydrocarbons spilled on the soil or water surfaces in order to treat bilge waters and contaminated tanks. It is intended for those who work in the field of environmental safety for refineries, ports, fuel service areas and any industrial situation where there are risks of hydrocarbon spills. While using POLYSOLVER, the product does not emit any gases whilst providing a considerable decrease in the gaseous emissions derived from the absorption of petroleum products. The product can be prepared with self-extinguishing additives in order to improve safety in managing restoration operations. POLYSOLVER is realised by GTA, our affiliate company, in scientific collaboration with CNR ISMN.

**REFOLO**:Refolo can fully recover the raw materials in the Car-Fluff, dry and in the organic fraction (SOF), and as such, which waste, allowing you to split up the smallest part of the starting material and making possible the recovery and reuse metal, plastic, glass, paper originally present in good proportion. Gusts, is also the ideal and affordable solution to the refinement of CDR. Refolo employs the mechanical energy for the micronization of rejection, a process validated by the CNR and covered by our patent. The main objective of Refolo is to make available a wealth of important raw materials and energy as that derived from the waste, both for industrial uses such as for the production of clean fuels and efficient.

## Gamma Meccanica S.p.A.

Page: **221**

Address	via Sacco e Vanzetti, 13 42021 - Bibbiano	<b>Italy</b>
Phone	+39 0522 240811	
Email	info@gamma-meccanica.it	
www	www.gamma-meccanica.it	
Organisation Type	Company	

### Contact Person

Name	<b>Nico Gualerzi</b>
Position	manager

Areas of activity	Type of co-operation	
» End products made with salvaged material	Licence agreement	» Request
» Wastes processing and their utilization as secondary raw materials	Technical Co-operation	» Request
» Building materials	Technological Co-operation	» Request
	Joint research project	»
	Manufacturing agreement	» Request
	Commercial agreement	» Request
	Financial agreement	»

### Short description of company

Gamma Meccanica is a manufacturing company born in 1978.  
 In his own different departments,  
 Gamma Meccanica Engineer and assembly single machine and complete line of  
 - Machinery for insulation material  
 (rock wool, glass wool, XPS)  
 - Machinery for plastics recycling  
 (feeding system, extruder, melt filter and granulator)  
 - System for VOC abatement  
 (solvent recover with cryogenic technology and VOC abatement with catalyse process)  
 The company produce standard line for different capacity and could engineer the tailored line for the final customer satisfaction.

### Manufacturing - plastic waste treatment

Gamma Meccanica could offer engineering and manufacture for machinery for plastic recycling and we are looking for new technology in plastic waste treatment.





## Gammel Duvia Engineering S.r.l.

Page: 222

Address	Corso Cairoli, 8 10123 - Torino	<b>Italy</b>
Phone	011.8121214	
Email	info@gammelduvia.it	
www	www.gammelduvia.it	
Organisation Type	Other	

### Contact Person

Name	<b>Andrea Duvia</b>
Position	Sole director

Areas of activity	Type of co-operation
» Energy from waste and biomass	Licence agreement »
» Biomass, bio-gas	Technical Co-operation » Offer
» Geothermal energy	Technological Co-operation »
» Energy saving and efficiency	Joint research project »
» Energy conversion	Manufacturing agreement »
» Other Energy topics	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Our company is the result of its founders' experiences - Gammel Engineering GmbH, German leader in the market of decentralized CHP power plants based on solid biomass combustion, and Andrea Duvia, expert in the decentralized production of renewable energy, in particular in energy conversion cycles.

#### FIELD OF ACTIVITIES:

production of energy from renewable sources

#### MAIN PRODUCTS/SERVICES:

We are an engineering company that offer technical assistance and consultancy services in the field of production of energy from renewable sources; namely, we design and plan modern plants for the production of energy from biomass, waste heat recovery and geothermal energy.

#### TECHNOLOGIES:

Mainly biomass-CHP-plants.

Continuous research of new technical solutions for increasing the efficiency and added value of the systems we design.



**Other - Design of plants for energy production from renewable energy**

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Company with innovative technical solutions in the energy conversion interested in proposing their solutions for commercial projects in Italy.

Investors interested in a strong partner for investing in biomass power plants ,waste heat recovery and geothermal energy production in Italy.

## GESTEC SRL

Page: **224**

Address	Via dei Romani, 24 87012 - Castrovillari	<b>Italy</b>
Phone	+39098126612	
Email	info@gestecsrl.it	
www	www.gestecsrl.it	
Organisation Type	Company	

### Contact Person

Name	<b>Francesco Marranghello</b>
Position	Owner

Areas of activity	Type of co-operation	
» Building materials	Licence agreement	»
	Technical Co-operation	» Request
	Technological Co-operation	»
	Joint research project	» Request
	Manufacturing agreement	» Request
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

From the 1980s Gestec SRI is specialized in construction, consulting and training; It gives an overall relevance to the energy saving.

#### FIELD OF ACTIVITIES:

Plant design, Building, Energy saving

### Manufacturing - Rational use of thermal energy for insulated building

#### DETAILED DESCRIPTION:

An Italian SME, operating in the field of construction, is looking for partners with large experience in the same sector in order to develop new technologies to realise buildings with dry methods without using cementation slurry.

#### TECHNOLOGY DESCRIPTION:

An Italian SME, operating in the field of constructions, is interested in collaboration with other companies or research centres in order to explore different opportunities to realise buildings with novel dry methods and without using cementation slurry.

The new method should be oriented to the construction of buildings with an higher level of insulation and the

consequent increase of energy savings and reduction of costs. The new technique should be also applied to buildings located in geographical areas positioned at different latitudes.

The company could actively cooperate with other partners, especially research centres, providing technical assistance and services to support research activities. In addition, the SME could offer the know how of its personnel and the expertise of its professional staff in training courses and e- learning programmes about specific topics related to the construction sector.

Innovative aspects

The innovative system should use dry methods and don't use cementation slurry. Moreover, the building interventions should be integrated on territory and able to be activated by modular operations.

**MAIN ADVANTAGES / BENEFITS:**

The main advantages are:

- faster time of realisation of buildings;
- compatibility between each operation phase and the temperature excursions;
- use of lighter materials as modular polystyrene and steel slab, plaster coated slab, composite materials that facilitate movements into building yards;
- reduction of times and costs;
- high energy savings and reduction of consumptions;
- reduction of production wastes because materials used could be recycled.



## GME (General Micro Electronics)

Page: 226

Address	Via Saba 11 33082 - Azzano Decimo	<b>Italy</b>
Phone	00393487250416	
Email	s.gugel@gmesrl.it	
www	www.casaautomatica.it	
Organisation Type	Company	

Contact Person	
Name	<b>Sergio Gugel</b>
Position	Executive Vicepresident

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer/Request
» Energy conversion	Technical Co-operation	» Offer/Request
» Control/metering equipments for heating in buildings	Technological Co-operation	» Offer/Request
» Other Energy topics	Joint research project	» Offer/Request
	Manufacturing agreement	» Offer
	Commercial agreement	» Request
	Financial agreement	»

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Since 1993</p> <p><b>FIELD OF ACTIVITIES:</b> Engineering, Electronics, home automation, energy</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Home automation and energy engineering</p> <p>Gme electronic engineers have been managing electronic product design and manufacturing for big European companies since 1993. We are capable of developing a wide range of electronic products, with all disciplines required for Turnkey development of Electronic products are available. Working closely together with big companies project engineering staff we help design on available modules, greatly reducing cost and enhancing Time to Market. GME also offer home automation products: hardware and software.</p> <p><b>TECHNOLOGIES:</b></p> <p>Analog Circuit Design Digital Circuit Design PCB Design</p>



User Interface Design  
Software Design  
Firmware & Micro-code Programming  
Design for EMI & EMC Compliance

**Research - Electronic projects for energy, offer powermeter for big power >100kw search innovative products**

**DETAILED DESCRIPTION:**

We offer engineering technical products:

hardware and software, we have experience in european and italian research projects

Home Automation technology in all the standards (wifi, powerline, konnex, lonworks, zigbee and so on..)

Heating control

Energy control and management powermeter for big power also more then 100kw controllable throught internet

**MAIN ADVANTADGES / BENEFITS:**

We also made home automation project for a lot of big company

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Wifi, Zigbee, Matlab, Powermeter, Smartmeter, Home Automation, domotic, white appliances

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

We are searching innovative product to resell





## GMP Engineering sas

Page: 228

Address	Via Piersanti Mattarella 15 20023 - Cologno monzese	<b>Italy</b>
Phone	+39 02 25410672	
Email	info@gmpsolare.it	
www	www.gmpsolare.it	
Organisation Type	Company	

### Contact Person

Name	<b>Giuseppe Pullini</b>
Position	Entrepreneur

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer
» Energy saving and efficiency	Technical Co-operation	» Offer/Request
» Heating equipments	Technological Co-operation	» Offer/Request
	Joint research project	»
	Manufacturing agreement	» Request
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Gmp Engineering sas was founded in 1996 and relies on the vast experience of Ing. Giuseppe Pullini, consultants and other members of the team with many years expertise in the fields of engineering, planning and industrialisation of consumer goods of large use.

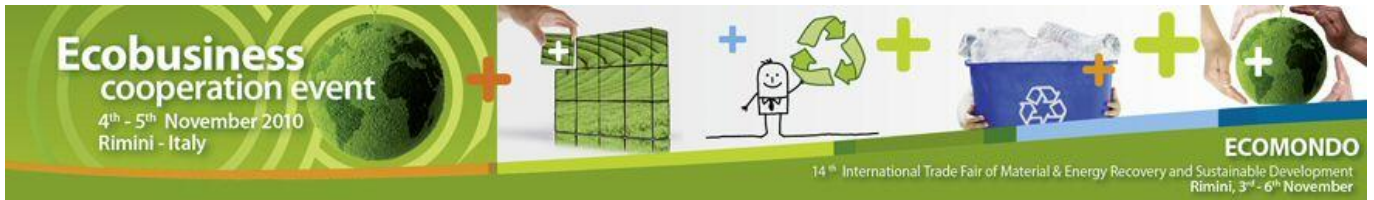
The keen interest for environmental themes has motivated Gmp Engineering sas to conduct a vast research in the field of alternative energy and, from 1996 to 1999, to complete a particular project: the realisation of Termocoppo® Solar Collector, an innovative solar panel which is reliable, efficient, easy to transport and to install.

#### FIELD OF ACTIVITIES:

Relying on qualified personnel with vast experience in the sector Gmp Engineering sas plans solar installations for private homes, sporting facilities, swimming pools, hotels, camping sites, seaside resorts.

#### MAIN PRODUCTS/SERVICES:

- Production of Termocoppo® Solar Collector and relevant mounting accessories
- Engineering and sale of "turn-key" solar plants
- Distribution of components and accessories for solar plants
- Production of inverters



**TECHNOLOGIES:**

Gmp Engineering sas has developed Termocoppo® Solar Collector: a modular panel suitable to be installed directly on roofs substituting tiles. The modular solar collector allows realising continuous rainproof surface and, being integrated in roofs, it grants good aesthetical results.

**Manufacturing - The company is looking for industrial partners interested in the Termocoppo® Solar Collector manufacturing and/or commercialisation in their country.**

**DETAILED DESCRIPTION:**

The Termocoppo® Solar Collector is mainly made of a profile (anodised extruded aluminium) with a special “U” shaped design, with the following features:

1. It can receive on the upper position a transparent cover, joined with a gasket profile
2. It contains the insulating material and the absorber
3. It is allowed the mechanical joining of two consecutive profiles, to obtain a continuous rain proof surface
4. By means of special hooks it is fastened to the support on the roof
5. It is closed on both extremities with plastic covers that includes insulating material

**MAIN ADVANTADGES / BENEFITS:**

The Termocoppo® Solar Collector allows realising continuous rainproof surfaces, integrated in the roofs, with different dimensions, to obtain the best aesthetical results. It is possible also to install the panels vertically, or to obtain curved surfaces.

The installation, especially for great surfaces, is particularly fast and easy. It is possible to realise canopies and covering using directly the modular panels. The panels are strong and load-bearing. The single modules are compact and light, so that the collector can be transported on the installation site manually. The possibility to choose the length of modules and the surface width, gives the greatest flexibility in the design of the solar surface.

**TECHNICAL SPECIFICATIONS (The compilation of this field it’s strongly suggested):**

Theoretically the Termocoppo® Solar Collector modules can be produced in any length. In fact the module length actually consists of four different sizes: 1,5 - 2 - 2,5 - 3 metres.

After the installation of modules on the support, the hydraulic connection is carried out on the top side of the panels, by means of a special stainless steel flexible pipe, with hydraulic fittings.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Industrial partners interested in manufacturing and/or commercialisation of the product in their own country.

## Granchi Group srl

Page: **230**

Address	Loc. Ponte di Ferro 56045 - Pomarance	<b>Italy</b>
Phone	3480718946	
Email	ingsalvatorebuscemi@gmail.com	
www	www.gruppogranchi.it	
Organisation Type	Company	

### Contact Person

Name	<b>Salvatore Buscemi</b>
Position	Production Manager

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Request
» Waste collection	Technical Co-operation	» Offer/Request
» Waste storage and transport	Technological Co-operation	» Request
» Waste treatment - plants and technologies	Joint research project	» Request
» Waste selection and recycling	Manufacturing agreement	» Offer/Request
» End products made with salvaged material	Commercial agreement	»
» Eco-design and eco-compatible materials	Financial agreement	»
» Treatment of wastewater and water for domestic consumptions		
» Energy from waste and biomass		
» Wastes processing and their utilization as secondary raw materials		
» Biomass, bio-gas		
» Pellets		
» Solar energy		
» Geothermal energy		
» Secondary fuels		

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** The Granchi company work from a lot of year in the process of raw material. For examples concrete; asphalt conglomerates; and earth movment; wood recycling. Ten years ago the Granchi achieved the governative licence of stock; collect; and process c&d ; glass; and other second hand raw materials. Study with University of Pisa about glass recycling in asphalt conglomerates; warm mix; dust and slag recycling. Property of caves; plant; fields; garbage dump.

#### FIELD OF ACTIVITIES:

Road construction; plant recycling

#### MAIN PRODUCTS/SERVICES:

road construction; concrete plants; asphalt plants; agriculture; wood recycling



TECHNOLOGIES: mobile and in situ plant recycling;

**Manufacturing - Find commercial and technical partners for waste recycling in building products and waste to energy**

DETAILED DESCRIPTION: energy from waste in particular from cereal or wood discard; soil washing or stabilisation; reuse of second hand materials in roads or concrete. We did a lot of meeting and visit about

MAIN ADVANTADGES / BENEFITS: cost competitive solutions - new market opportunities.

TECHNICAL SPECIFICATIONS technologies after the first prototype step

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: private companies or other

## Greco Meccanica S.r.l.

Page: **232**

Address	C.da Saracena 86038 - Petacciato	<b>Italy</b>
Phone	+39 0875 678438	
Email	angelo@grecomeccanica.it	
www	www.grecomeccanica.it	
Organisation Type	Company	

### Contact Person

Name	<b>Angelo Greco</b>
Position	CEO

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	» Request
» Waste selection and recycling	Technical Co-operation	» Offer/Request
» Solar energy	Technological Co-operation	»
» Wind energy	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Greco Meccanica Srl was founded in April 1994 by the initiative of the CEO Mr Angelo Greco. During the years the company has always developed its experience and know-how applying new generation equipments for its products.

FIELD OF ACTIVITIES: Greco meccanica Srl operates in the frame of the production of precision mechanics equipment

MAIN PRODUCTS/SERVICES: transmission mechanical trees, beds industrial equipments, realization of equipments on demand, ecc.

TECHNOLOGIES: The most up-dated

### Manufacturing - Realization of mechanical equipments

#### MAIN ADVANTADGES / BENEFITS:

Our company offers a very flexible production of precision mechanical equipments using high technologies and know-how.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

We offer a 15 years experience in the construction of mechanical machineries by the use of new generation plants and with a high know-how also in the assembling of equipment.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

We are looking for companies or planning offices that aim to develop and/or produce their psojects or machineries by the mean of a very flexible, skilled and experienced firm like us.

## Greenpower S.r.l.

Page: **233**

Address	Via Valeriano, 7 32100 - Belluno	<b>Italy</b>
Phone	+390437943867	
Email	service@green-power.net	
www	www.green-power.net	
Organisation Type	Company	

Contact Person	
Name	<b>Nicola Boschetti</b>
Position	technical manager

Areas of activity	Type of co-operation	
» Wind energy	Licence agreement	»
» Water energy	Technical Co-operation	» Offer
» Energy saving and efficiency	Technological Co-operation	» Offer
	Joint research project	» Offer
	Manufacturing agreement	» Offer/Request
	Commercial agreement	» Offer/Request
	Financial agreement	»

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Ours is a young company that is 10 years old; decades of experience of our technical experts allowed us to tackle even the most demanding projects in the field of energy generation. We have created dozens of installations that we continue to monitor the operation and from which we continue to receive feedback to further improve our design and production of components.</p> <p><b>FIELD OF ACTIVITIES:</b> Renewable energies hydro-power and wind-power</p> <p><b>MAIN PRODUCTS/SERVICES:</b> We develop, design and build hydroelectric plants where it is provided the use of Pelton, Francis and Kaplan turbines; our activities are oriented towards a band called micro and mini-hydro, with power ranging from 15 kW to 5 MegaWatts. We develop, design and supply wind power plants: small size from 5 to 60 kW, and of industrial size with turbines megawatt class.</p> <p><b>TECHNOLOGIES:</b> Water turbines Pelton, Francis, Kaplan and others. "Other" means all the technologies suitable for the generation and recycling of energy also when classical turbines are uneconomic: we patented a system called GEISMA (Standard Modular Electro Hydraulic Aqueduct Unit) that starts from standard hydraulic machines (easily available on the market) that modified becomes low cost turbines: when the water flows back through a pump, the impeller will run in reverse and the pump will function as a turbine. Pumps are used as turbines where pressure differences are to be reduced or where the turbine head and flow rate are to be used to recover energy. There are a lot of situations in which there's the possibility to rationalize water transport systems: drinking water</p>





aqueducts, irrigation systems, black waters that comes down from treatment plants... , most of time there are good situations to install hydropower plants on the existing lines.

Wind turbines three blades horizontal axis up-wind and down-wind.

### Supplier - We're searching new customers for hydro-power plants

#### DETAILED DESCRIPTION:

Pelton turbines with one ore more jets, horizontal and vertical axis;

Francis turbines with ability to set a residual pressure for water distribution purposes;

Kaplan turbines: horizontal and vertical axis, wicket gate fixed or adjustable, propeller vanes fixed or adjustable.

All the turbines are designed to optimized the energy production with the source characteristics (head and flow).

GEISMA: starting from few liters flow to many hundreds of liters per second flow, we can provide whatever characteristic plant using single or multiple stadium machines, fixed impeller or adjustable vane impellers, till several GEISMA units operating in parallel.

#### MAIN ADVANTADGES / BENEFITS:

All the hydropower plants that we develop using Pelton, Francis and Kaplan turbines are designed to optimized the energy production with the source characteristics (head and flow) to reach the highest performance and economic result.

GEISMA: standard hydraulic machines - used as turbines - allowed us to cut down plants costs; we found the compromise between economic factor and technical performance to realize projects that optimize small hydropower sources.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Starting from source characteristics we will provide a porposal for your hydropower plant.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Multi-utility, reclamation, public authorities and private companies.

### Supplier - We're searching new customers for wind-power plants, S, M, L, XL.

#### DETAILED DESCRIPTION:

- site verifications
- anemological and territorial inspection of potentially interesting areas for possible realizations of wind farms
- anemometric campaigns and evaluation of the site's wind power potential
- project planning
- wind power plant design
- authorization process
- Engineering Procurement & Construction (EPC)

MAIN ADVANTADGES / BENEFITS: Advisoring, feasibility, project planning are the right tools to take profit by what you can't see: wind

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Multi-utility, public authorities and private companies.

## Guidetti srl

Page: **235**

Address	Via Salvi, 1 44045 - Renazzo	<b>Italy</b>
Phone	00390516858511	
Email	a.mucci@guidettisrl.com	
www	www.guidettisrl.com	
Organisation Type	Other	

Contact Person	
Name	<b>Alvaro Mucci</b>
Position	export manager

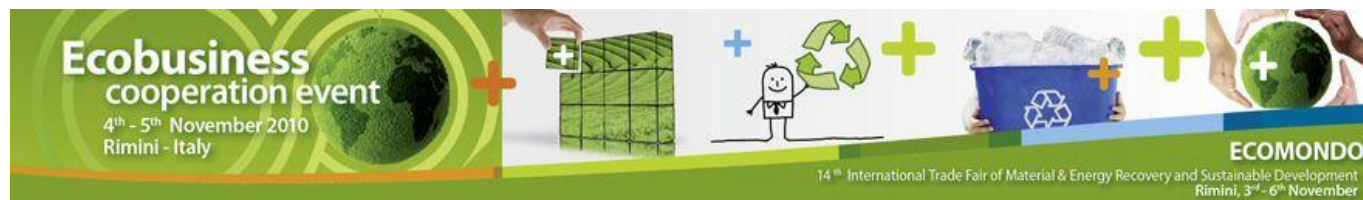
Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Waste selection and recycling	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement »

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> GUIDETTI S.r.l. Company was born in the 80s with the goal to find solutions to recycling needs of nowadays Society. Our Company is basically aimed at the researching and developing of innovative products in the fields of industrial scraps recycling and inserts' crushing. The machines are designed and projected according to users' needs to give the right answer to scraps' treatment and materials' recovery. The wide range of machines has been designed by a technical staff managed by the projector Mr. Mauro Guidetti. The manufacturing process is realized at our premises by highly qualified personnel who directly follow step by step the phases of assembling, testing, and final control. Guidetti's trading net covers a large territory both national and International. GUIDETTI studies for research and developments will increase in order to maximize the number of products that can be recovered to contribute to environmental saving.</p> <p><b>FIELD OF ACTIVITIES:</b> company specialized in recycling plants for copper, aluminium, industrial</p> <p><b>MAIN PRODUCTS/SERVICES:</b> machinery for recycling cables ,wires to reduce dimensionally and separate any kind of electric and electronic appliances " excluding the " white "</p>

Distribution - we are looking for dealers in areas not covered yet.
<p><b>DETAILED DESCRIPTION:</b> machinery for recycling cables ,wires to reduce dimensionally and separate any kind of electric and electronic appliances " excluding the " white "</p>



MAIN ADVANTADGES / BENEFITS:machinery are designed according to the customer's needs and thir winning factor is that they combine : Economy: profits coming from different suorces:time saving in terms of manpower with consequent economic; Ecology : these machines allow the recovery of waste material and the separation of materials is obtained by using air and densimetric table. Comfort: these machines are made accordin to parameters of compact dimen sions and weight thus allowing great mobility and easy installation in several fields.



## HENESIS s.r.l.

Page: **237**

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Phone	+3905211854211	
Email	luca.ascari@henesis.eu	
www	www.henesis.eu	
Organisation Type	Company	

### Contact Person

Name	<b>Luca Ascari</b>
Position	CEO

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer
» Geothermal energy	Technical Co-operation	» Offer
» Energy saving and efficiency	Technological Co-operation	» Offer
» Control/metering equipments for heating in buildings	Joint research project	»
» Other Energy topics	Manufacturing agreement	» Request
	Commercial agreement	» Offer/Request
	Financial agreement	» Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Henesis srl is a SME incorporated in 2007. Despite the recent foundation, the company offers state-of-the-art solutions in the areas of competence to top level international customers, such as TOYOTA, University of Washington, RFI (Italian National Railways), EU Commission (FP7). The international team consists of leading engineers and researchers with significant experience in industrial and public international research projects as well as in multinational companies.

#### FIELD OF ACTIVITIES:

complete HW/SW/WEB platform for distributed data acquisition and remote monitoring based on wireless sensor networks; soft computing and advanced processing applied to acquired data (multimodal data fusion, physical-mathematical models, memory and predictions). Machine vision and image processing.

#### MAIN PRODUCTS/SERVICES:

Henesis develops and sells a complete proprietary platform for distributed monitoring, based on wireless sensor networks. A proprietary low cost module can host standard and custom sensors, and offers completely automatic networking capabilities for long range data transmission; geolocalized data are sent through the cellular network (or other existing link to Internet) to Henesis servers, where they are organized in a data base and fully accessible and searchable in a number of ways through a secured web portal.

The platform is ideal for indoor and outdoor completely battery powered, long term missions (years), involving a potentially high number of nodes (all of them automatically route other nodes' data). The network is self-configuring, self-optimizing, self-healing. On-board sensors are: ambient temperature, humidity, pressure, light,



noise level (RMS); external sensors are contact temperature, heat flux, piezometers, inclinometers, industrial 4-20mA and 0-5V, counters, ... Others, both analog and digital, can be easily connected.

Data storage, treatment and access 7/24 are assured on Henesis servers, with secured access. A web portal allows geo-localized searches and statistical analyses. Specific algorithms allow advanced processing of multimodal data, such as formation of memories and formulation of predictions based on their history. Nodes and services can be bought or rented, reused in diverse monitoring missions without reconfiguring.

#### TECHNOLOGIES:

Ready-to use complete WSN platform, Embedded low power electronics, digital signal processing, wireless networking protocols, WEB-based; soft computing (artificial neural networks, genetic programming); parallel processing, optimization techniques, statistical analysis.

### **Investment - cheap and efficient platform for distributed data acquisition**

#### DETAILED DESCRIPTION:

Henesis develops and sells a complete proprietary platform for distributed monitoring, based on wireless sensor networks. A proprietary low cost module can host standard and custom sensors, and offers completely automatic networking capabilities for long range data transmission; geolocalized data are sent through the cellular network (or other existing link to Internet) to Henesis servers, where they are organized in a data base and fully accessible and searchable in a number of ways through a secured web portal.

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The product can be placed on the market in several ways:

the core of professional measuring instruments (presently: for energy efficiency in buildings, precision agriculture; in future: for air and water quality, besides other already envisaged applications)

a network of nodes (at present ready for temperature, humidity, vibration and spatial orientation, light, noise measures) to be easily integrated by the customer (a technician or a professional) to build customized monitoring networks

a network of nodes to be integrated in existing plants or equipments for remote monitoring, or predictive maintenance

#### MAIN ADVANTADGES / BENEFITS:

Cost of nodes significantly lower than competitors, deep internet interconnection for turn-key operation, state of the art sensors; robust protocol for automatic network setup and maintenance. All this brings the following benefits (split according to the case uses of previous point):

Case 1) Cost of instruments significantly lower than competitors. Possibility of networked measures. Easier data management and report generation

Cases 2 and 3) low cost robust monitoring. The customer pays for what really matters: information (the cost of nodes is absorbed in the monthly fee if renting modality is chosen). Centralized data management. Endless possibilities of monitoring. Lower costs for the final user. Advanced algorithms developed and offered as high added value product.





TECHNICAL SPECIFICATIONS (The compilation of this field is strongly suggested):

a proprietary (pat pend) protocol for ad-hoc wireless sensor networks allows a completely battery powered tree-shaped topology, even in presence of many nodes not directly connected, for long range transmission. The modules operate on the 2.4GHz IEEE802.15.4 standard. Each module is uniquely identifiable. Specific bridge modules with GPS localization collect data from the network and transfer them to Henesis servers through the GPRS/UMTS network or another interface to Internet. A web-portal with cartography (at present: Google maps) shows the data organized in a My-sql data base. Other features in previous description

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: VC: Henesis has a specific Business plan for the development of this business (not described here in all its parts) at global level, and requires VC for proper implementation and rapid market penetration.

### **Distribution - cheap and efficient platform for distributed data acquisition**

DETAILED DESCRIPTION:

Henesis develops and sells a complete proprietary platform for distributed monitoring, based on wireless sensor networks. A proprietary low cost module can host standard and custom sensors, and offers completely automatic networking capabilities for long range data transmission; geolocalized data are sent through the cellular network (or other existing link to Internet) to Henesis servers, where they are organized in a data base and fully accessible and searchable in a number of ways through a secured web portal.

The platform is ideal for indoor and outdoor completely battery powered, long term missions (years), involving a potentially high number of nodes (all of them automatically route other nodes' data). The network is self-configuring, self-optimizing, self-healing. On-board sensors are: ambient temperature, humidity, pressure, light, noise level (RMS); external sensors are contact temperature, heat flux, piezometers, inclinometers, industrial 4-20mA and 0-5V, counters, ... Others, both analog and digital, can be easily connected.

Data storage, treatment and access 7/24 are assured on Henesis servers, with secured access. A web portal allows geo-localized searches and statistical analyses. Specific algorithms allow advanced processing of multimodal data, such as formation of memories and formulation of predictions based on their history. Nodes and services can be bought or rented, reused in diverse monitoring missions without reconfiguring.

The product can be placed on the market in several ways:

the core of professional measuring instruments (presently: for energy efficiency in buildings, precision agriculture; in future: for air and water quality, besides other already envisaged applications)

a network of nodes (at present ready for temperature, humidity, vibration and spatial orientation, light, noise measures) to be easily integrated by the customer (a technician or a professional) to build customized monitoring networks

a network of nodes to be integrated in existing plants or equipments for remote monitoring, or predictive maintenance

MAIN ADVANTADGES / BENEFITS:

Cost of nodes significantly lower than competitors, deep internet interconnection for turn-key operation, state of the art sensors; robust protocol for automatic network setup and maintenance. All this brings the following benefits (split according to the case uses of previous point):

Case 1) Cost of instruments significantly lower than competitors. Possibility of networked measures. Easier data management and report generation

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**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

a proprietary (pat pend) protocol for ad-hoc wireless sensor networks allows a completely battery powered tree-shaped topology, even in presence of many nodes not directly connected, for long range transmission.

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**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Italian and foreign distributors active in specific markets (energy efficiency, air monitoring, agricultural, waste.); groups interested in evaluating the platform for their remote monitoring needs.



## I&S Informatica e Servizi Srl

Page: 239

Address	Via Solteri, 74 38121 - Trento	Italy
Phone	0461402122	
Email	commerciale@ies.it	
www	www.ies.it	
Organisation Type	Company	

### Contact Person

Name	<b>Pierluigi Fedrizzi</b>
Position	Sole Director

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

I&S Informatica e Servizi Srl was born in 1991 as a modern engineering company on the initiative of a team of technicians and graduates in scientific disciplines standing on the strong knowledge of its operative firms which show significant experiences in various fields, such as: civil engineering, geology, city-planning and cartography. Thanks to its ability in proving a strong know-how in different Technical and Scientific matters, I&S has been successful from the beginning, at first locally and afterwards in national and international scenes, in the crowded business of Information Technology

#### FIELD OF ACTIVITIES:

In its first years of activity, I&S was mainly focused on the development of AutoCAD customized functions. AutoCAD by Autodesk is the most famous computer aided software for technical design, used by geometers, specialists, engineers, and architects practicing their professions, and it is recognized as the blockbuster software in the worldwide CAD business. Since 1994, I&S has been involved in a particular CAD branch, known with the acronyms GIS, which stands for Geographical Information System.

Shortly, GIS technology is the information technology sector involved in the integrated and bidirectional management of a cartography in relation with an alphanumeric database linked with graphical elements.

The following subjects are interested in this technology:

- Public Administrations, such as: Borough Councils, Land Registry Offices, Regions, Provinces, Civil Defence, State Companies, Land-reclamations cooperatives, Mountains communities, Park authorities.
- Self-employed, such as: city designers, geologists and everybody working in the landscape management.
- Motorways and multi-utility companies.



GIS applications developed by I&S sweep over many sectors, such as: designing and management of City Projects, network calculation and management services (Water, Gas and Electricity supply), town garbage gathering optimization and facility management. During last years I&S have been investing a lot in fleet control and management (ORM.GPS) and control of services on the territory (ORM.RFID).

**MAIN PRODUCTS/SERVICES:**

- Software development based on Autodesk technology:
  - CAD line: Architecture, Topography, Cadastre, Applications for Civil Engineering
  - FM line: Facility Management
  - GIS line: Landscape management, Territorial services
- Services: Plotting, Rasterizing, Map Digitalizing, Landscape surveying
- Other services: Basic and advanced training and consulting, assistance, housing
- Graphic Hardware selling: Server, PC, Plotter, Scanner, Monitor

**TECHNOLOGIES:**

GPS, GPRS, UMTS, RFID, Wi-Fi Bluetooth, ZigBee, Autodesk, Microsoft, Linux

**Export - Exporting our software and services**

DETAILED DESCRIPTION: Software for Waste Management System

MAIN ADVANTADGES / BENEFITS: Web interface, link to every carthography, easy to use and personaliza

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Company for Waste Collection

## I.Co Innovative Company

Page: **241**

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www	www.icoworld.com	
Organisation Type	Company	

### Contact Person

Name	<b>Monica Donati</b>
Position	Business Development Manager

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility	Technical Co-operation »
» Energy saving and efficiency	Technological Co-operation » Offer/Request
» Control/metering equipments for heating in buildings	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

I. Co Ltd was established in the second semester of 2009. The open innovation project promoted by I.Co Innovation Company was inspired and sustained by Maurizio Maria Taormina, previously vice-president of UMPI Group. Until 2009 Mr. Taormina was in charge with innovative corporate strategies for UMPI Group with the aim of researching, designing and producing new products / services in innovative sectors by assessing possible applications of wireless technologies or integrating different ICT technologies.

The market areas in which the company is involved are:

risks management as per classified in the EU civil protection plans,  
info-mobility and road safety

SCADA and wireless metering systems of gas and water supplies  
software applications and hardware for social purposes.

The development model embraced by the Company is that of open innovation, by which new products, services and technologies are developed combining internal and external ideas as well as processes of development and implementation.

Engineers and consultants working for I. Co Srl. have experience of basic research within university departments or research institutes.

From May 2010 is an official partner, through institutional agreement signed with UNCEM, the National Union of Mountain Communities Community Agencies, which adopted the system "The Guardian" for the prevention and management of hydrogeological risks, hydraulic ones and forest fires within the framework of the national Civil Protection.

Upon proposal of the University of Bologna, even since May 2009 the company has set up an internal "Scientific



Committee" that includes four teachers of the Second School of Engineering of the Alma Mater Studiorum. The Scientific Committee – chaired by Professor Marco Chiani - addresses and validates research projects concerning new technologies and services that can be introduced in the company's target markets.

#### FIELD OF ACTIVITIES:

I. Co Ltd is a company committed by constitution to a plethora of product and services, and, therefore, multi-branding by definition. The products currently available cover the following market areas:

Integrated land-safety and risk management wireless systems (The Guardian)

Intelligent Grids (Metering)

Advanced Communication Platforms (GuideOnePage)

Infomobility and Intelligent Traffic Monitoring Systems (The City Guardian)

Social-Use integrated applications (Free Living Free Moving)

#### MAIN PRODUCTS/SERVICES:

The Guardian: wireless sensor networks based on Texas Instruments technology, with particular reference to 802.11.4 ZigBee standard solutions and / or custom solutions. Technologies developed in cooperation with university research departments to create mesh networks with low-power consumption. Products manufactured under the brand-name "The Guardian" address specific market sectors, namely:

rock/soil landslide monitoring systems aimed at detecting programmed data analysis to forecast events;

environmental parameters monitoring in the agricultural sector, aimed at spreading rational fungicides.

When developing applications designed to monitor and alert forest fires, failures in distribution networks (water, gas, oil ...), static buildings (civil or of cultural heritage). The use of these systems in public and private sites allow to substitute the traditional "human monitoring" systems, which are costly, not profitable on a large scale and, in the long term, certainly more expensive if compared to a computerized monitoring system such as that developed by I.Co that can be easily installed on any sites and allows to survey multiple parameters through various types of sensors and to monitor the site via web interface.

The Metering: remote management systems for the measurement of end-users' supply and consumption of water and gas in compliance with Directive 155/08 issued by the Italian Authority for the Energy and Gas, which imposes the adoption of remote metering systems on national utilities by 31/12/2015, on penalty of administrative sanction. I. Co Ltd has promptly address this issued and developed:

an integrated PLC – Wireless system created in partnership with UMPI Electronics, which uses public lighting networks for data transfer;

an remote control system entirely wireless created in collaboration with university spin offs.

The PLC-Wireless solution offers a wide variety of monitoring services (video, public lighting remote management, connectivity, ...), while the solution based on the wireless on wireless system is a considerably cheaper solution mainly for those metering purposes indicated by the aforementioned Directive 155/08.

Jolie is a new java-based language based on Service-oriented Architecture (SOA) programming, which allows for the modeling of both services (e.g. Web Services) and orchestrators. Its language is easy and intuitive: a programmer needs just a brief training period before starting to use it efficiently. JOLIE is the perfect solution to address efficiently interoperability issues. It provides embedded standard protocols such as HTTP and SOAP and, thanks to its architecture, it can be easily enhanced for interoperating with different platforms by exploiting open or closed/proprietary technologies. JOLIE is the right solution for updating legacy software infrastructures into SOAs, building new systems easily and quickly by exploiting the new distributed modularity offered by the service-oriented paradigm. Jolie is suitable to create new services from scratch or to compose existing ones in order to obtain new functionalities. Jolie gives an easy framework for the study of its semantics and a powerful way to extend it through the development of additional modules. The integration with existing technologies is possible by means of extension modules that use the API development. Jolie allows the orchestration of a multi-platform urban guide for tourist and local cityzens, known as Guideonepage, a service-oriented product





characterised by:

a web guide with aggregator functions

a functional social network infrastructure

a freeware mobile application for iPhone and smartphone

Bluetooth and WiFi hotspots supporting proximity marketing features

The end user will benefit from free access to a web 2.0 customizable urban guide and information services online and via mobile, ensuring free connection services in those areas covered by the hotspots set up in small business premises and local shops, which – in turn, will enjoy of a plethora of marketing tools (mobile & web) to promote their business

Furthermore I. Co Srl. is developing projects and highly innovative design solutions in new areas of potential market interest, with the support of its Scientific Committee, among which it is worth mentioning:

**Free Living Free Moving** a solution that is currently in the development phase and consisting in a system capable of recalling and organising information coming from the social security and police databases in order to simplify treatment procedures and facilitate car access of disabled people to local congestion charge zones.

Unfortunately today's accreditation and authorization procedures for disabled people chronic patient in general, are not centralised or automated and often result in long and futile waiting time. This solution will reduce bureaucracy of treatment plans for chronically ill patients and make congestion charge zones more accessible to disabled people by means of a universal pass.

**Better Urban Living** : the product / service provides a certification extended to the urban environment 'Better Urban Living' (BUL) based on a set of protocols that define the processes, products, technologies applicable to improve the quality of urban function improved environmental sustainability and namely: enhancing the use of metering technologies for remote control and energy saving in lighting systems, promoting the monitoring of environmental parameters through the use of sensor networks and that of energy consumption in buildings, creating integrated systems capable improving transport infrastructures in terms of safety and environmental impact. Both public and private stakeholders will benefit more sustainable and environmentally friendly buildings as well as from more effective monitoring and mitigation systems of anthropogenic effects on the existing urban sites.

The City Guardian is an ICT infrastructure model through which you can implement energy saving policies and provide services related to infomobility and road vehicles safety. The system makes use of communication infrastructure, such as PLC networks on the existing public lighting systems, to manage remotely multiple services including traffic monitoring tools known as "tutors" and alerting systems such as digital signage panels. The project will include applications of UWB technologies that will be tested at the laboratories of the DEIS II Faculty of Engineering of Bologna. Ultra Wide Band applied to traffic monitoring systems can offer a larger range of parameters for a better control and monitoring of road traffic, for instance it can assess the state of road surfaces and thus, timely estimate presence of failures on the road or prevent collisions between vehicles in case of traffic jams or accidents.

**TECHNOLOGIES:**

Power line communication technologies

Smart metering solution for gas and water utilities

Wireless Sensor Network platform having application in monitoring environmental risks and maximising building energy efficiency





## Distribution - EU Distribution of our Smart Metering Solutions

### DETAILED DESCRIPTION:

I.Co offers two types of metering solutions one PLC and wireless called SMI and another entirely wireless called Wi-Me. The latter is also perfect for the optimization of building energy efficiency.

SMI is a complex system that merges Power Line Communication technologies with Wireless modules. The system developed by I. CO Ltd enhances the current public lighting network through the implementation of power line communication (PLC) coupled by wireless metering devices specifically designed to read remotely utilities consumption (gas and/or water) . The infrastructure is based on a set of radio transmitters and receivers that can read data consumption from each metering device and transfer them to a central server for storage. Every metering device is equipped with a pulse generator and connected to an electronic pulse counter housed in the meter case. At settable intervals (ten minutes, an hour, once a day, etc.) the pulse counter transmits to the receiver the absolute value of total consumption registered up to that moment through an integrated radio transmission interface.

The radio receiver is integrated into the first-tier concentrator (Syra) and installed onto a public lighting lamppost. The system uses the power line located inside each lamppost both to feed concentrators and to send the data collected by concentrators to the second tiers, called Andros. Syra is connected to Andros via the communication channel supplied by the power line network. "Andros" devices are installed inside street power cabins and collect data from the first-tier concentrators by means of PLC technologies. Subsequently they send the collected data to the central server via a dedicated connection, like GSM / GPRS or optical fiber. Also the system can manage public lighting devices using Syra, a device specifically designed for monitoring and controlling street lamps.

### Wi-ME

#### Wireless Metering Infrastructure

Wi-Me is a system for automatic meter reading (AMR) designed to register remotely data from gas and water meters. The system consists in consumption reading devices (called CTX) installed for each user and gateways for data collection called RTX. CTX can read and store the consumption recorded by common gas meters. Each CTX sends data to a gateway (RTX) via a secure communication protocol that uses powerful data encryption algorithms. The collected data are stored by the RTX and sent to the remote server via GPRS with a TCP / IP connection.

Besides being a completely wireless system that does not include any type of cabling. Every metering device (CTX) is built with cutting-edge integrated batteries enabling a system operability of over 20 years. In addition, the Wi-ME can allocate time slots for the consumption data to be recorded by each metering device (CTX), offering significant benefits for the differential charges, and it can store data within each device for at least 30 days, so as to provide greater safety when failures occur within parts of the system.

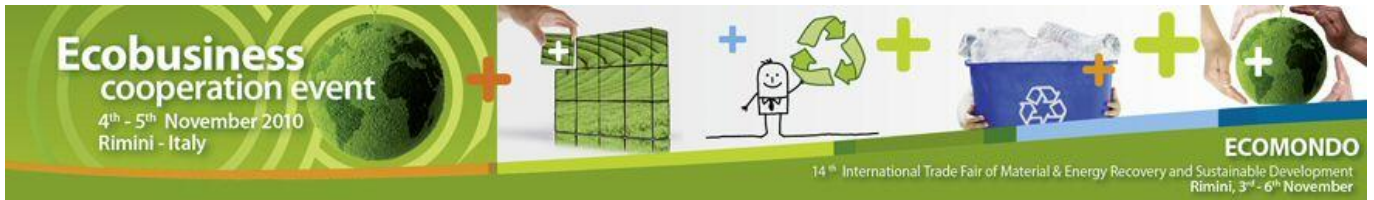
### MAIN ADVANTADGES / BENEFITS:

#### INNOVATIVE FEATURES

The solution SMI (PLC – Wireless) is an smart infrastructure for public lighting and gives multi-utility corporations the opportunity to:

Take advantage from a multi-service platform capable of arranging and managing simultaneously multiple services such as video-surveillance, public lighting remote management, connectivity services, general use information (parking, tourist information, weather ...) and leverage infrastructure costs in the short-medium term;

Benefit from a system that is fully compliant with the Directive 155/08 issued by the Italian Authority of Energy



and Gas for the implementation of gas metering devices in reception of the Directive 2006/32/EC of the European Parliament and of the Council of 5 April 2006 on energy end-use efficiency and energy services and repealing Council Directive 93/76/EEC;  
 Profit from standard radio communication technologies (IEEE802.15.4) that provide the system with an expandable architecture and offer the possibility to deploy further services to the end-user, such as consumption managing displays or safety devices

With the Wi-ME system multi-utilities can implement an AMR (Automated Meter Reading) system that does not require cable transmission. Wi-ME uses standardized radio communication protocols (IEEE802.15.4) and it is designed with an expandable architecture that allows the provision of additional services for end-users such as consumption managing displays and safety electro-valve switches. The system boasts a cutting-edge integrated chip that forms together with the TXG1 a high-performing smart device capable of lasting more than 20 years and enhance the consumption performance of the entire metering solution. Further benefits of a totally wireless smart metering system such as Wi-ME are:

the provision of a proprietary remote metering infrastructure that frees our clients from additional lease costs of existing communication lines  
 the implementation of a radio-enabled solution that can reduce the use of GSM/GPRS modems thus minimize telephone traffic and general expenditures for the infrastructure set-up and its future extensions

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

SMI specifications

HARDWARE SPECIFICATIONS

SYRA

Power supply: 230V ~ + / - 10%

Power Consumption at rest: 0.5 W

Max power output: 4 A

external user active power : up to 400W

Surge protection by varistor and PTC: 400 V

Ambient operating temperature (ta) (U = 230V, I = 3A): - 25 ÷ + 65 ° C @ 90% RH Temperature max limit (tc) + 70°C

Characteristics of housing case: Nylon PA 66 natural blue

Dimensions: 50 x 101 x 36 mm (may vary depending on lamp power)

Electrical insulation: Type II

Ingress protection: IP65

Weight: 470 g (may vary depending on lamp power)

RXG1-2400

Power: 5V DC Syra

Maximum current consumption: 20mA

Reception frequency: 2400MHz

Dimensions: 50 x 101 x 36 mm

Weight: 400g

Bracket for mounting on lampposts;

Cable for data connection to SYRA included;

TXG1

Power supply: built-in battery



Quiescent current: 10uA

Receiving frequency: 433MHz, 2400MHz (IEEE802.15.4)

Inputs:

pulse generator

anti-tampering device

Dimensions: 90 x 130 x 50 mm

Weight: 350g

ANDROS

Power supply: 15 V ~

Current consumption at rest (battery operation): 70 mA @ V ~ 10.4

Digital inputs: No 16 opto

Open collector outputs: No. 6 12Vdc 20mA

NO-NC contact relay outputs: No. 1 230V ~ 3A ac1c

Proprietary powerline communication protocol

Insulation class: II (double insulation)

Ingress protection: IP20

Dimensions: 9 DIN modules

Weight: 650 grams

Wi-ME specifications

HARDWARE SPECIFICATIONS

CTX-2400 – Pulse-enabled consumption reader with in-built transmitter.

An integrated battery power specs: 3.6V 2400mAh

2.4GHz radio interface compatible with IEEE 802.15.4

Transmission of encrypted data with AES 128-bit

Constant consumption measurement at time slots

Consumption history storage up to 30 days

IP65 box for wall mounting

Inputs:

A pulse generator with a on/off manual or digital switch 0-Von (1.2V

## Research - Development of Energy Efficiency application of our WSN platform

DETAILED DESCRIPTION:

The Guardian platform consists of a number of devices called "nodes" and connecting devices, better known as remote gateway. Each node – which is only slightly larger than a cell phone and powered by small battery - is able to read, feed and manage simultaneously up to three sensors, two analog and one digital (I2C). The collected parameters are detected by a node and sent to the closer node in terms of signal strength measure between two nodes and then to the gateway device, which is responsible for storing data periodically and send them to a remote server connected to internet. The parameters collected on field are available on a dedicated web page for further analysis.

Data transmitted through the network are protected from hacking attacks by means of a robust encryption algorithm implemented in each node. The Guardian is "mesh" network, which means that it can readjusts automatically when failures occur and it can send updates on the quality and level of battery charge of every single node.

#### MAIN ADVANTAGES / BENEFITS:

The innovative features of the Guardian platform consist in its advanced nodes. Every node is specifically designed to link to a wide range of sensors with different voltage outputs, current or bridge configurations (eg piezo-resistive sensors) all depending on the client's specific needs. The main advantages in using from these advanced nodes for WSN monitoring systems are:

- High scalability and low set-up cost of the system due to the expandable network architecture and seamless switch-and-go integration of additional sensors of various type
- Reduced maintenance cost due to our set of advanced nodes that have a life of over 15 years (for readings of simple contacts) and an optimized sensor communication system
- High adaptability and flexibility of the network by means of standard radio communication protocols such as IEEE802.15.4 and Zigbee for transmission on the ISM band
- Maximum security by use of advanced encryption algorithms to transmit data and advanced procedures for recovering erroneous packets
- High reliability of the system thanks to advanced failure and low-battery alerts and tested routing procedures of the mesh network
- High resilience of the system to the highest temperatures (over 60°C)
- Opportunity to recharge batteries via solar panel for those sensors with high consumption
- Reduced dimensions of the system components

#### BENEFITS OF THE GUARDIAN

The Guardian benefits from the advanced features of the nodes developed by I.Co Innovative Company for its WSN monitoring, namely:

- Each node can handle simultaneously two analog sensors with voltage output / current / ratiometric, and a digital one (I2C)
- Each node automatically detects the type of sensor that connects to it (by range of output signal, type of measurement, voltage)
- The sampling period of monitored parameters can be programmed according to the nature of each parameter and the updating rate required by each application
- The system setup is easy and fast and this reduces the sensors positioning time in dangerous areas (risk minimization) or, more in general, the labour time needed to scatter nodes and sensors over vast areas (labour cost reduction)
- The data collected by the server are available on an easy-to-use and secure web page

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

The Guardian profits from the innovative hardware features of the nodes developed by I.Co Innovative Company for the Guardian platform, namely:

- Plug-and-play sensor with no need to set mechanically any component of the node
- Automatic configuration and calibration of each node
- High accuracy ( $\pm 0.1\%$  FSO @ -25 to 85 ° C  $\pm 0.25\%$  FSO @ -40 to 125 ° C)
- Intelligent management of sensor battery (auto-shutdown after reading)
- Power with 2 batteries of 3.6V AA
- 2.4GHz wireless transmission via standard IEEE802.15.4

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Energy service provider who has proven expertise in installing energy efficiency system in public and private buildings



## IBT SRL

Page: **250**

Address	V G. Marconi 31050 - Treviso	<b>Italy</b>
Phone	0422616311	
Email	ibt@ibtgroup.it	
www	www.ibtgroup.it	
Organisation Type	Company	

### Contact Person

Name	<b>Ilario Vigani</b>
Position	CEO

Areas of activity	Type of co-operation
» Biomass, bio-gas	Licence agreement
» Energy saving and efficiency	Technical Co-operation
	Technological Co-operation
	Joint research project
	Manufacturing agreement
	Commercial agreement
	Financial agreement

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

IBT Srl was established in 2000 as a firm specialising in the building automation sector. It develops, manufactures and manages state-of-the-art, integrated solutions for energy self-production, telecommunications and connectivity.

IBT is the exclusive partner for the Greek and Italian market of Capstone Turbine Corporation®, the California-based world's leading producer of low-emission microturbine systems boasting a unique "oil free" technology that can provide cogeneration solutions for all.

#### FIELD OF ACTIVITIES:

Cogeneration trigeneration

#### MAIN PRODUCTS/SERVICES:

Gas microturbine/nature gas and bio fuel/absorption chillers

TECHNOLOGIES: oil free gas turbine (Capstone oil free patent)





**Supplier - To meet both potential clients and business partners interested in our technology in order to promote Capstone's products and values.**

DETAILED DESCRIPTION: IBT Srl main objective is to promote the above technology and company's value in Greece and Italy.

**MAIN ADVANTADGES / BENEFITS:**

The only distributors in the whole of Greece and Italy to distribute Capstone Micro Turbines.

The Microturbine advantages are:

- No lubricating oil or coolant
- Low greenhouse-gas emissions (Nox and CO)
- Possibility to adjust from 0 to 100% power by changing the rotation speed
- Minimal scheduled maintenance and downtime
- Easy to install and commission
- Low noise and vibration
- "Power Quality" of the electric energy produced (as per UPS systems)
- Reliable: Stand-Alone option in case of power failure
- Six scalable marketable sizes: from 30 to 1000 kW.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): Oil free, patented air bearing- no lubricating oil or coolant required

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: any company intereted in cogeneration and trigeneration



**ICAM srl**

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Email	a.borgato@icamtec.com	
www	www.icamtec.com	
Organisation Type	Company	

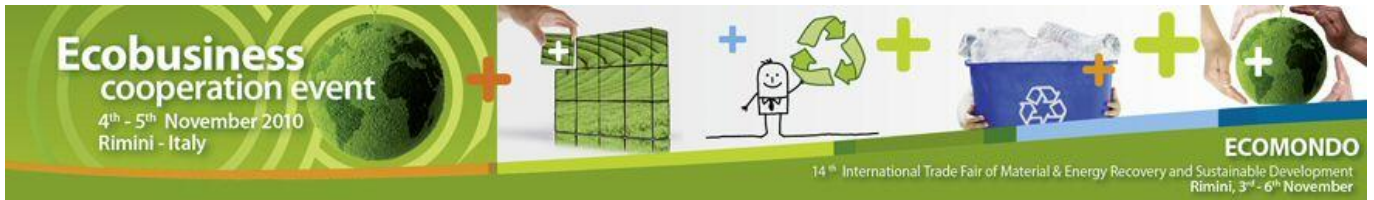
<b>Contact Person</b>	
Name	<b>Ariosto Borgato</b>
Position	Sales & Marketing Manager

<b>Areas of activity</b>	<b>Type of co-operation</b>	
» Waste selection and recycling	Licence agreement	»
» Cooling and ventilation equipment	Technical Co-operation	»
» Other	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	» Offer
	Commercial agreement	» Offer
	Financial agreement	»

**Short description of company**

**ORGANISATION HISTORY/EXPERIENCE:**  
 Since 1971, ICAM works in the environmental improvement field, projecting and installing air and noise treatment plants. To project a technological system means ICAM has to consider several variables and only his expert team is able to analyze:  
 \*the best engineering solution  
 \*the optimal way to insert the new system in a preexistent context  
 \*the lower running costs and the observance of complex laws in force  
 The services ICAM offered are guaranteed by its own Quality System certified according to DIN EN ISO 9001/2008 norms from TUV.  
 The wide experience acquired, its continuous evolution and the agile well-organized structure enable the technical staff to design and to dimension every plant according to specific requirements, guaranteeing maximum result in accordance with all the laws in force for the following activities:  
 \*suction and ventilation plants  
 \*filtration and dedusting plants (Atex execution)  
 \*gases, vapours and odours abatement plants  
 \*industrial sound-proofings.

**FIELD OF ACTIVITIES:**  
 industrial machinery  
 metallurgical industry  
 metalmechanical industry



pharmaceutics and chemistry industry  
 waste treatment, composting and water purification industries  
 paint industry  
 wood/paper industry  
 food and agrofood industry  
 textile industry

**MAIN PRODUCTS/SERVICES:**

- \*Fume extraction and filtration plants: foundries, steelworks, diecasting, mechanical engineering workshops, chemical and food industries
- \*Dust extraction and control plants: mechanical engineering, metallurgical, textile, paper-making and brick/cement production industries
- \*Vapour and mist extraction and control plants: mechanical processes using oil, diecasting, industrial laundries, chemicals production
- \*Extraction and control systems for airborne particles: V.O.C. from gas and other sources
- \*Odour control system: animal husbandry, leather tanning, chemical and food industries, composting and water purification industries
- \*Airborne pollution control systems: paper-making, mechanical engineering, chemical, galvanizing and surface treatment industries
- \*Operator break time cabin
- \*Power machine enclosures
- \*Environmental improvement: partition walls, baffles, soundproof containers, silencers and personalised solutions

**TECHNOLOGIES:**

Dry technology engineering  
 Wet technology  
 Acoustic Division

**Distribution - The research aims at finding freelances (importer/distributor or selling Agent) having knowledges of air depuration and soundproofing system**

**DETAILED DESCRIPTION:**

ICAM designs and builds systems for environmental improvement (air and noise)

**MAIN ADVANTADGES / BENEFITS:**

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Our plants are designed and made on order, but we can not exclude the opportunity to standardize some product lines for dedicated uses.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Agent/Representative with knowledges of air depuration and noise pollution



**Other - All industries and all activities which have the need to reduce pollutants like dust, gases, fumes, odours and noise.**

**DETAILED DESCRIPTION:**

Design and construction of system for environmental improvement (air and noise)

**MAIN ADVANTAGES / BENEFITS:**

Years of experience in all industry sectors.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

We design and build the basis of real customer needs and makes us honored to have designed and built the ventilation systems in the MOSE, the greatest work for the safeguarding of the Venice lagoon

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Companies and users of facilities for the treatment of air and noise

## IDEA SRL

Page: **255**

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Phone	00393357564744	
Email	info@ideasrl.it	
www	www.ideasrl.it	
Organisation Type	Company	

### Contact Person

Name	<b>Filippo Paredes</b>
Position	Manager

Areas of activity	Type of co-operation
» Eco-design and eco-compatible materials	Licence agreement »
» Solar energy	Technical Co-operation » Offer/Request
» Wind energy	Technological Co-operation »
» Geothermal energy	Joint research project »
» Energy saving and efficiency	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Idea was founded in 2006 by a group of entrepreneurs and teachers of the University of Palermo. Idea has started its production activity in May 2007 with moulding of polypropylene components for the automotive sector.

**FIELD OF ACTIVITIES:** The company includes the participation of a qualified pool of university researchers working within the Department of Chemical Engineering, University of Palermo, which ensures the continuous technological updating of the company in the field of materials and industrial processes. The company joins the Mechatronics Production District, recognized by the Sicily Region.

#### MAIN PRODUCTS/SERVICES:

In addition to moulding of polypropylene components for the automotive sector, in 2007 the company dealt with the production of resin garden furniture, exploring new markets. IDEA is currently being restructured to approach the sector of development of innovative technologies in the green economy, with the application of new materials in the field of bioremediation, and the realization of plants for energy production and saving, with particular reference to concentrating solar power and wind power small plants.

#### TECHNOLOGIES:

The company, within its factory of 1,400 sq m located in the industrial area of Termini Imerese, near Palermo, has injection molding machines in the range between 65 and 1,600 tons and, therefore, is able to mould objects of different shapes and sizes in the thermoplastic materials and also in air-moulding. IDEA makes use of advanced



technologies and methodologies to design and solid modelling, and through a partners' network, is able to manage the full production cycle of mechatronic devices.

**Manufacturing - development of innovative technologies in the green economy, through the application of new materials to bioremediation**

DETAILED DESCRIPTION: Ecocompatible materials.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

The company is interested in meeting potential investors and distributors in the sector of innovative techniques applied to green economy and new materials to bioremediation.

## IDROPAN DELL'ORTO DEPURATORI SRL

Page: **257**

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www	www.idropan.it	
Organisation Type	Company	

### Contact Person

Name	<b>MARIELLA SERVIDA</b>
Position	

Areas of activity	Type of co-operation	
» Treatment of wastewater and water for domestic consumptions	Licence agreement	» Offer
» Sewage facilities	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The company started its activities in 1981, The Idropan Dell'Orto born as a family business in 1969 and 1981 becomes srl, is then entered in the register of companies in the 1989.

Idropan performs feasibility studies, design, assembly, sales maintenance of water purifiers in general, plants for the recovery and refining of metals and other technological equipment for water treatment technology makes it possible.

In all these years is handled first by Mr. Italo Servida and Mrs. Augusta Dell'Orto beside which are then sons Tullio and Mariella Servida.

The Idropan in its forty years of experience in water treatment has always sought to provide its customers with the best equipment for water treatment technology that makes it possible to solve case problems related to a single use.

Our company is also part of Silhorko Eurowater group, with whom we have relations for over 30 years and with whom we deal and distribute the best technologies on the market.

All these years we have developed a line of standard products and special products, Plimmer of which will be part of.

Special products come direct from the development of niche technologies as well as the acquisition of licenses and exclusive representatives of technology companies leading carriers.

In 2001 he collaborated with Idropan Arpa Piemonte, Provincia di Novara and Novara Industrial Association of the realization of the book "Guidelines for implementing the environmental management"



**FIELD OF ACTIVITIES:**

water treatment

**MAIN PRODUCTS/SERVICES**

Historically Idropan was always a company that develops and uses advanced technologies. Idropan Compared to the farm size has always had a very high ratio between R&D and sales.

This is proved by the specificity and the extensive range of proposed technologies. In the field of plating baths offer Idropan has always been very interesting. Over time it became an expert in selective separation of metals. An example is the column to remove copper and zinc nickel plating baths, system exported to countries such as Japan, Taiwan and the USA:

The Idropan always been sensitive to the development of solutions to improve the environmental impact. For example, the introduction of the liability for the hexavalent chromium free zinc Idropan was perhaps the first to bring the bath purification systems that extend indefinitely the life by removing iron and zinc and leaving unaltered the content of cobalt and trivalent chromium.

Idropan was also the pioneer in the use of electro-systems long before this technology became widely used in the industry.

The regenerated absorbent polymer technology is the most efficient way to keep the surface before discharge and again the Idropan they have been promoted and is still one of the few European cities can provide this equipment.

Latest addition is the technology Ibryd CDI and with it the Plimmer, technology will revolutionize the field of water treatment.

**TECHNOLOGIES:**

The high degree of technology innovation offering Idropan are:

- CAPACITIVE DEIOIZATION (plimmer)
- the electro-EDI
- recirculation systems. For galvanic washing water with ion-exchange equipment and general border line.
- Purification of metal plating baths
- Purification of nickel plating baths by organic pollution (TOC)
- Cleaning bathrooms after passivation hexavalent chrome free zinc and fluorides.
- Treatment plants such as chemical physical
- Systems to reduce the organic load by "Polymer Adsorbents" regenerated.

**Distribution - collaboration, distribution and/or retail in your country of PLIMMER technology (CDI)**

**DETAILED DESCRIPTION:**

PLIMMER is a new technological method of "capacitive deionization" designed to revolutionize water treatment worldwide. It blends low maintenance costs, high efficiency, reliability, all without the necessity of any chemical substance.

The system has the ability to remove high percentages of Nitrates, Arsenic, Cadmium, other heavy metals, "Humic acids" and to "demineralize waters" up to a TDS >5000ppm.

Water recovery is in the range of 75-85% and salt retention about 80-90%.

**MAIN ADVANTADGES / BENEFITS:** The unit operates at a low pressure (1,5 bars) and does not require expensive pretreatments, tolerates free chlorine and is a cost effective alternative to RO membranes with a energy usage of only a fraction of RO technology.

## Idrostudi Srl

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Email	info@idrostudi.it	
www	www.idrostudi.it	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Luca Falcomer</b>
Position	Manager

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Techniques for the re-use of water	Technical Co-operation » Offer
» Sewage facilities	Technological Co-operation » Offer
» Sewage services	Joint research project » Offer/Request
» Water energy	Manufacturing agreement »
» Geothermal energy	Commercial agreement » Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Established in 2002, the company supplies consultancy services in environmental-hydraulic engineering also related to natural science topics. In order to launch a precious connection between Academy and Companies, we propose, as our main activity, the development of applied research and the application of basic research in a possible new product of interest for the market.

The Company includes among its members mainly PhD engineers, and makes use of wide external specialist collaborations.

#### FIELD OF ACTIVITIES:

IDROSTUDI supplies various kind of services and products:

- Design support by means of numerical and physical modelling finalised to verify and optimize the various project options, to elaborate feasibility studies, etc;
- Consultancy to the technological networks managing companies (sewer and water supply systems) aimed to the monitoring, the management and the optimisation of the networks;
- Field survey design and execution of hydraulic and hydrological quantities

#### MAIN PRODUCTS/SERVICES:

Idrostudi deals with the management of water resources and hydraulic risk, in particular:

- Management and optimisation of water supply and wastewater systems with reference also to water quality;
- River flow control;
- Discharge formation process analysis in natural water bodies;



- Use of naturalistic engineering techniques;
- Numerical modelling of water bodies like rivers, lakes, lagoons, coastal areas by means of mono-bi- and tri-dimensional models;
- Evaluation of solid transport phenomena, coastal erosion, dispersion of polluting agents into water bodies, etc. by means of numerical models;
- Physical modelling at a reduced scale for problems at water- structures interface;
- Discharge forecasting systems by means of soft computing methodologies;
- Field surveys design and execution to measure hydraulic and hydrological quantities (discharge, water level, precipitation, water quality);
- Groundwater hydrology;
- Optimisation of hydraulic systems;
- GIS.

### **Consulting - Find out partners to develop new projects**

Idrostudi srl supplies consultancy services in environmental-hydraulic engineering with particular reference to Water Cycle: water supply systems, sewerage systems and wastewater treatment plants.

In particular, Idrostudi executes numerical modelling of aqueducts and sewerage system networks, perform topographic surveys and the reconstruction of the network hydraulic schema.

In recent years Idrostudi S.r.l. has become leader in Italy in field surveys design and execution aimed to the measure of hydraulic and hydrological quantities (discharge, water level, precipitation, water quality).

The flow measures are usually made in order to:  
 calibrate numerical model;  
 finding out external water intrusion;  
 define critical areas of the sewerage system

In sewerage system topic Idrostudi has developed software able to define the correct quantity of waste water direct to the treatment plants from each single town with the aim to set the correct bill.

In water supply system topic Idrostudi developed a virtual hydric districtualisation system by the means of pressure and flow measures. All the instruments have inside a data transmission system: data are then elaborated by a specific software developed by Idrostudi. By the use of this software it is possible to:  
 define hydric balance of each single district;  
 real time simulation of the hydric network.

Nowadays there are many practical applications in all the North and Centre of Italy.

Moreover, Idrostudi supplies design and planning works activity with reference to water supply and sewerage systems by using the most advanced computational techniques such as genetics algorithm etc.



**IDROTECH Srl**

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Organisation Type	Company	

<b>Contact Person</b>	
Name	<b>Elena Trevisan</b>
Position	Commercial

<b>Areas of activity</b>	<b>Type of co-operation</b>	
» Waste treatment - plants and technologies	Licence agreement	»
» Cooling and ventilation equipment	Technical Co-operation	»
» Other	Technological Co-operation	»
» Other Energy topics	Joint research project	»
	Manufacturing agreement	» Offer
	Commercial agreement	» Offer/Request
	Financial agreement	»

**Short description of company**

ORGANISATION HISTORY/EXPERIENCE:  
 Idrotech has been manufacturing for 20 years fog systems for odour control, waste water treatment, dust suppression, disinfection, humidification and cooling. Our mission is "One client and one market", our goal is supplying complete and customized solutions. Idrotech manufactures fog systems: water is pressurized (10-20 bar) by a pump and atomized into the air through nozzles. Our partner distributors are not final customers.

**Manufacturing - Supplying complete and customized fogging solutions to manufacturers or distributors (not final customers). Our mission is one customer one market.**

DETAILED DESCRIPTION: Industrial fog systems for odour control, dust suppression, humidification, cooling and disinfection

MAIN ADVANTADGES / BENEFITS: Main competitiveness factors are: design, price/quality, quality, technological level products range, a young and modern team.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): Thanks to our high pressure fog machines (which work up to 120 bar) and fog nozzles, the water is nebulised into droplets (8-15 micron) which creates a misting effect ideal for: dust suppression in mines, electric power stations, tunnels, cement factories, conveyor belts; temperature reduction in animal farms, cooling towers of air conditioning systems; cooling entertainment outdoor areas like discos, parks, bars, restaurants, swimming pools; odour neutralization



in dumps, tanneries, industrial chimneys, compost sites, water purification plants; humidification of wood and paper industries, fruit and vegetable counters, wine cellars; disinfection of equipments, floor rooms, vehicles; scenic designs in discos, recreation areas, fountains.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Distributors and importers of professional fogging systems for odour control, dust suppression, cooling, humidification, disinfection; manufacturers of equipment and turnkey plant who complement their production with our solutions.



## Imper. c.a.r.

Page: **263**

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Email	impercar@libero.it	
www	www.impercar.it	
Organisation Type	Company	

### Contact Person

Name	<b>Francesco Rossi</b>
Position	owner

Areas of activity	Type of co-operation
» Waste collection	Licence agreement »
» Waste storage and transport	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Our company was founded in 1997, and has many years of experience in the field of asbestos decontamination and covering in general. Our company has the expertise to carry out any kind of decontamination project: removal, encapsulation, and confinement.

#### FIELD OF ACTIVITIES:

Cement-Asbestos Decontamination, Covering and -Proofing

#### MAIN PRODUCTS/SERVICES:

Asbestos decontamination

### Export - Seeking partners to accept asbestos waste.

#### DETAILED DESCRIPTION:

We seek operators of facilities that treat or dispose of asbestos-contaminated materials, for an ongoing partnership (regularly-scheduled shipments to your plant or structure.

In 2009 we removed 1,658,530 Kg. of asbestos-contaminated construction materials CER 170605 and we expect this amount to increase.





**MAIN ADVANTADGES / BENEFITS:**

Commercial relationship with regularly scheduled shipments.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Disposal or treatment of waste material containing asbestos.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Operator of facility to store or handle asbestos-contaminated materials, or someone with contacts in that sector. We would like to establish an ongoing commercial relationship.

## InGem s.r.l

Page: **265**

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www	www.ingemsrl.com/	
Organisation Type	Company	

Contact Person	
Name	<b>Monica Coppola</b>
Position	CEO

Areas of activity	Type of co-operation
» Solar energy	Licence agreement »
» Energy saving and efficiency	Technical Co-operation » Offer/Request
» Heating equipments	Technological Co-operation » Offer/Request
	Joint research project » Offer/Request
	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> InGem Srl is an engineering company specialised in emergency engineering and environmental safety projects through its activity in environmental impact assessment and feasibility evaluation. The company has a consolidated experience in research, consulting, training and planning to implement forecast, prevention, management and relief activities in case of emergencies of both anthropic and natural origin. InGem offers also to clients the most suitable technical solutions regarding renewable energy and energy saving and efficiency giving a complete service from concept to completion. Experts have skills and expertise in applied engineering, information and communication technology and environmental security and safety management.</p> <p><b>FIELD OF ACTIVITIES:</b> Emergency engineering and environmental safety projects. <b>MAIN PRODUCTS/SERVICES:</b> Technical solutions regarding renewable energy and energy saving.</p>

Services - Research and development of innovative solutions to engineering related emergency
<p><b>DETAILED DESCRIPTION:</b> InGem Srl is a company specialized in research and development of innovative solutions to engineering-related emergency. The company provides professional services and/or support to construction and management of plants fueled by renewable energy sources and training to public and private institutions and production companies.</p>



**MAIN ADVANTADGES / BENEFITS:**

The company offers a wide range of high quality services based on an extensive knowledge of renewable energy and energy saving technologies. It has the know-how to design innovative engineering solutions taking into account the clients needs.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

InGem Srl designs and delivers innovative engineering solutions with particular attention to the areas closely related to the emergency, ordinary and extra-ordinary, taking into account energy efficiency and saving, environmental impacts of projects, using renewable sources of energy. In particular, the company has experience in photovoltaic systems, solar organic cells, for energy supply to industries, consortium and private companies.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Industry, private company, private investors, public authorities involved in engineering-related emergency, renewable energy, energy saving and environment.

## Innoind

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Email	giulio.raimondi@innoind.net	
www	www.innoind.net	
Organisation Type	Other	

### Contact Person

Name	<b>Giulio Raimondi</b>
Position	Tecnichian

Areas of activity	Type of co-operation	
» Energy from waste and biomass	Licence agreement	»
» Solar energy	Technical Co-operation	» Offer/Request
» Wind energy	Technological Co-operation	» Offer/Request
» Geothermal energy	Joint research project	» Offer
» Energy saving and efficiency	Manufacturing agreement	»
» Thermal disposals	Commercial agreement	»
» Energy conversion	Financial agreement	» Request
» Building materials		
» Heating equipments		
» Control/metering equipments for heating in buildings		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Innoind is a group of independent technicians that offer their competence to work in innovation of process and product. It started in 2009 like a brand, and probably next year (January 2011) Innoind will be a Company (an Italian s.r.l.)

#### FIELD OF ACTIVITIES:

Renewable Energy (FV, mini wind application, Geothermal), Energy saving, new product, new process for SME

#### MAIN PRODUCTS/SERVICES:

Innoind offers technical and technological service to develop new products and process to increase competitiveness of SME. These services include monitoring, developing, commissioning, support in erection, support in start-up and technical support in increasing workers' knowledge.

For Innoind, Renewables are a specific process (like other industrial processes) to have low-cost energy to use in factory. Energy is a raw material that is used in industrial value-chain.

#### TECHNOLOGIES:

Monitoring approach, field analysis approach, co-operation approach, lateral thinking, TRIZ, Function Analysis



### **Distribution - Local Electrical Logistic System - LELS**

#### **DETAILED DESCRIPTION:**

The idea is to develop a short distance distribution service based on electrical car. In an industrial area there is some company that makes the distribution of materials to end users for logistic, manufacturing, maintenance issues. Some times this company makes a lot of very short trips.

The idea is to use electrical vehicles to make this short distance transportations, that use electricity produced from local renewables (photovoltaic or wind based).

#### **MAIN ADVANTAGES / BENEFITS:**

Develop a new model for transport issue in which the energy for transportation is produced in site (decreasing energetic footprint). Develop the use of electrical commercial vehicle (i.e. Renault Kangoo). Develop the local generation of electricity

#### **TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

1. to define the best local situation with a lot of SME with a lot of interconnection (a district for example)
2. to define the amount of electricity for transportation issue
3. to define the type of primary source available (wind, solar...)
4. to define a technological masterplan
5. to define a financial masterplan

#### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

SME in a district, local transporter, wind turbine suppliers, FV suppliers, logistic company, investors

### **Other - Docks wind mills**

#### **DETAILED DESCRIPTION:**

The docks of a commercial or turistic sea port, are a good structure for wind mills because it's a man-made place in which other industrial element will be low environmental impact, and because it's a place with high wind potential.

Moreover in a port there is a lot of electrical and fuel consumption by landed ship: in this solution fuel can be partially eliminated by electricity locally produced.

#### **MAIN ADVANTAGES / BENEFITS:**

Good return on investment due to good wind exposure, low environmental impact in case of small wind mills (max 25 meter high), improvement of environmental situation in the port (low consumption of fuel)

#### **TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

1. to define the law permits
2. to define the minimum wind conditions
3. to define the type turbine able to stay around sea
4. to define a technological masterplan
5. to define a financial masterplan

#### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

wind turbine suppliers, law consultants, investors, concrete builder, steel buider



## INNOVA Consorzio per l'Informatica e la Telematica s.r.l.

Page: 269

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Email	info@consorzio-innova.it	
www	www.consorzio-innova.com	
Organisation Type	Company	

### Contact Person

Name	<b>Andrea Di Pasquale</b>
Position	Business Development Manager

Areas of activity	Type of co-operation
» Waste collection	Licence agreement
» Waste storage and transport	Technical Co-operation
	Technological Co-operation
	Joint research project
	Manufacturing agreement
	Commercial agreement
	Financial agreement

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

INNOVA is an Italian SME, founded in 1989 and based in the South of Italy. The company counts today with 27 highly qualified employees and had a turnover of 1,5M€ in 2009.

#### FIELD OF ACTIVITIES:

INNOVA specializes as a technology and service provider for the Earth Observation and Public Administration sector with the following areas of expertise:

- Remote Sensing (RS)
- High Performance Computing (HPC) and GRID
- Geographical Information Systems (GIS)
- Infomobility Solutions (ITS)

MAIN PRODUCTS/SERVICES: Environmental Monitoring Applications based on Synthetic Aperture Radar (SAR) data; System Design and Software Development; Intelligent Transport Solutions.

TECHNOLOGIES: Synthetic Aperture Radar, Radio Occultation, GPRS, GPS, Galileo, Egnos, GIS.





## Services - Intelligent Waste Collection and Transport Solutions

### DETAILED DESCRIPTION:

INNOVA is a technology and service provider of intelligent transport system solutions to manage waste collection container fleets / vehicles.

### MAIN ADVANTADGES / BENEFITS:

INNOVA develops ad hoc solutions to perfectly match each customer's specific requirements.

### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

The system uses GPS/GPRS tracking devices powered by rechargeable batteries providing 1 year of autonomy. The tracking devices signal the location of the container when in movement (thanks to an accelerometer placed within the device) or, when stationary, following a remote call to the device to signal its geographical coordinates in real-time.

Our solution makes it possible to track the position of the container fleet, keep a trip history, but above all to monitor each individual container even while stationary at the waste collection points.

Furthermore, INNOVA has integrated sensors that monitor the amount of waste present inside the containers, notifying the control centre when a container is full so that pick up can be scheduled.

On the software side, we have developed an "intelligent" interface that uses algorithms to solve the TSP (Travelling Salesman Problem) and ensuring an efficient and cost effective management of the containers transport logistics.

The Central Processing Unit that elaborates the system's data is installed at the customer's Headquarters. The system is web-based and can be accessed from any PC with an internet connection.

### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Companies looking to optimize the waste collection process or in need of highly specialized technical solutions regarding Waste Collection and Transport.

## Intellienergia Srl

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Address	Via della Ricerca Scientifica snc 00133 - Rome	<b>Italy</b>
Phone	+39 06 72594065	
Email	info@intellienergia.com	
www	www.intellienergia.com	
Organisation Type	Company	

Contact Person	
Name	<b>Giulio De Simone</b>
Position	CEO

Areas of activity	Type of co-operation
» Biomass, bio-gas	Licence agreement »
» Solar energy	Technical Co-operation » Offer/Request
» Wind energy	Technological Co-operation » Offer/Request
» Energy saving and efficiency	Joint research project »
» Heating equipments	Manufacturing agreement »
» Other Energy topics	Commercial agreement »
	Financial agreement »

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Intellienergia is a university-based spin-off company, characterized by a high technical-scientific profile. The company moves from the scientific excellence of a University group, together with the technical experience and skill of one of the most renowned design group in the Italian panorama, that has already realized plants and infrastructures for a consistent number of MW. Intellienergia offers legal economic-financial and engineering consulting services, together with education and certification activities on renewables, assuring the highest quality standards and impartiality.</p> <p><b>FIELD OF ACTIVITIES:</b> Wind, photovoltaic, biomass, hydroelectric</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Intellienergia provides professional services and support all activities related to construction and operation of Renewable Energy Production Plant, such as:</p> <ul style="list-style-type: none"> <li>• top level consulting and absolute impartiality;</li> <li>• certification of components and plants;</li> <li>• preliminary and executive design, permitting, management and coordination activities of safety;</li> <li>• training of human resources.</li> </ul>



## Services - Renewable energy production plant

### DETAILED DESCRIPTION:

The team, active in energy production, rational use of energy, environmental protection, offers services of design, authorization, direction of the work, coordination of safety during design and execution, macro and micro siting, estimation of the potential for sites and plants, testing and certification of components. For all technologies (wind, photovoltaic, biomass, hydroelectric) the following services are given:

- Project Management;
- Civil and electrical design of plants;
- Permitting and environmental impact studies;
- Works direction;
- Coordination of safety during design and execution;
- Macro and Micro siting, estimation and certification of sites and plants;
- Testing and certification of components;
- Economics;
- Technical due diligences for investors;

### MAIN ADVANTADGES / BENEFITS:

The team is a partner capable of supporting its customers to define the most efficient and innovative methods, processes, materials, technologies to meet customer needs, giving the opportunity to solve problems effectively thanks to a top level engineering team.

It ensures the state of art design even in areas where no standards are available (think the most innovative areas of photovoltaics, wind offshore, thermodynamic solar systems, etc.) that only the presence of University joint to specific engineering experience guarantees.

The team has the know-how to design power system based on organic photovoltaic cells, as well as many other technologies where no standard design methods are available (eg, innovative photovoltaic systems, wind offshore, thermodynamic solar, etc.).

### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Intellienergia designed renewable power plants for over 100 MW photovoltaic plants, 80 MW wind energy plants, 10 MW biomass plants and 150 MVA delivery High Voltage stations . Moreover, due diligence and consulting services (economic-legal-fiscal) have been provided for over 200 MW renewable power plants. A synthesis of the already carried-out design activities is reported on website [www.intellienergia.com](http://www.intellienergia.com).

Intellienergia has designed 8 software (3 for commercial use and 5 freeware) aiding design of renewable energy power plants. Actually over 80.000 users in Italy use our software for design of PV, Wind and CSP power plants.

### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Private companies, investors.

**INTERMEK SRL -INTERWIND**

Page: **273**

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Phone	+39 0434 44183	
Email	info@interwind.it	
www	WWW.INTEREMK.COM - WWW.INTERWIND.COM	
Organisation Type	Company	

<b>Contact Person</b>	
Name	<b>Marco Barbarin</b>
Position	MANAGER

<b>Areas of activity</b>	<b>Type of co-operation</b>	
» Wind energy	Licence agreement	»
	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	» Request
	Manufacturing agreement	» Offer
	Commercial agreement	»
	Financial agreement	»

<b>Short description of company</b>
MAIN PRODUCTS/SERVICES: THE COMPANY IS DEVELOPPING A NEW EOLIC GENERATOR FOR REDIDENTIAL AND DOMESTIC USE

<b>Manufacturing - THE COMPANY IS LOOKING FOR A PARTNER FOR DEVELOPPING EOLIC TURBINE</b>
DETAILED DESCRIPTION:THE COMPANY OFFERS SERVICES AND MANUFACTURES HIGH PRECISION MECHANICAL PARTS USING NUMERICAL CONTROL MACHINES. IT IS DEVELOPPING A NEW MODEL OF EOLIC GENERATOR
MAIN ADVANTADGES / BENEFITS: DURING THE ENTIRE PRODUCTION PROCESS, QUALITATIVE TESTS ARE CARRIED OUT BY DEDICATED STAFF TO ENSURE THE PRODUCT CORRESPONDS TO DRAWINGS

## In-TIME Srl

Page: **274**

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Phone	+39 06 72597296	
Email	paregiani@innovazioniperlaterra.org	
www	www.innovazioniperlaterra.org	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandro Paregiani</b>
Position	Director

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Other	Technical Co-operation » Offer/Request
» Other Energy topics	Technological Co-operation »
	Joint research project » Offer/Request
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

In-Time (Innovation-Technologies Information Methodologies for the Earth) is an Academic Spin-Off Company from the Tor Vergata University of Rome, involved in various activities focused on Civil Engineering, Urban Planning and Environment.

Its general aim is to support all the processes concerning the territory and its environment, from assessment to planning, from management to monitoring, by using innovative methodologies and developing GIS-based integrated Information Systems.

The Company's founders have a very relevant experience, acquired by the collaboration with the Tor Vergata University, that led to design and develop methodologies and technologies used in different fields of activity by numerous institutional public bodies, at national and local level, and private companies.

#### FIELD OF ACTIVITIES:

- Waste management (planning, performance analysis, optimization, increasing of separate collection of waste, fee modulation, fight to fee evasion, benchmarking)
- Water quality management
- Environmental assessment of the intervention concerning the energy production from renewable sources
- Atmospheric and noise pollution assessment in urban areas and 3D impact models
- Food safety
- Natural and man-made risk analysis and management. Civil Protection planning and management
- Protection, valorisation and exploitation of cultural heritage assets
- Urban accessibility for disabled persons





**MAIN PRODUCTS/SERVICES:**

- GIS-based decision support system & consultancy for waste collection planning
- Economic optimization of urban waste management
- GIS-based decision support system for water quality management
- GIS-based decision support system & consultancy for the analysis of natural and man-made risks and for the emergency management
- Geographic data integration and processing

**TECHNOLOGIES:**

Mainly GIS

**Services - Economic optimization of urban waste management**

**DETAILED DESCRIPTION:**

An innovative model developed by In-TIME allows to easily simulate the economic balances of alternatives concerning urban waste collection, treatment and disposal, and consequently to compare them and to choose the best configuration.

The model takes into account that:

- the type of collection system (group of materials collected separately, frequencies, distances) affects costs and quality of materials
- the choose of assimilation criteria (origin of materials, European Waste Codes, other limitations) implies different amounts of waste and different costs/incomes
- differences in contracts generate different grants.

**MAIN ADVANTADGES / BENEFITS:**

This opportunity is addressed to municipalities, intending to avoid losses resulting from wrong planning, and to waste management companies, aiming to optimize their solutions.

It means the capability to:

- design the infrastructure and organization of service, optimal from the economic point of view and consistent with the municipal policy
- draw up provisional and final balance sheets
- draw up technical specifications of call for tenders
- revise collection and management plans
- assess the economic feasibility of new configurations of service
- compare economic provisions of consortium management (CONAI) and private.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The main variables taken into account can be grouped into:

**A. Costs**

- A.1 Collection and transport
- A.2 Selection, treatment and sale
- A.3 Disposal of residues
- A.4 Management and administration

**B. Incomes**

- B.1 Contributions from consortiums
- B.2 Contracts with companies managing plants
- B.3 Fees



The model has been developed on the basis of:

- a general model of the urban waste management cycle and related economic fluxes
- Italian legislation and technical agreements
- statistical data
- an analysis of municipal needs

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

We are looking for a partner that currently works for local authorities or companies directly involved in the urban waste. In-TIME is interested in establish commercial agreements and technical partnerships (in particular in order to develop the model in countries different from Italy).

### **Services - Urban Waste Management Support System UWMSS**

**DETAILED DESCRIPTION:**

In most European big urban areas, the urban waste collection (both separate or not) is performed in a collective form: the citizens leave their waste in collective containers and dump trucks are used for the collection. This means that the companies performing the collection don't have any information concerning the users and particularly how much and what kind of waste each one produces. In this way it is very difficult to plan the collection services in order to better fit the citizens' real needs and to distribute incentives to the users in order to promote the high quality separate collection.

To solve this problem a specific System (UWMSS) has been developed, designed for local authorities and companies, that allows to associate (in a semi statistics way) users (the demand) and containers (the supply). In order to motivate separate collection, the System has been tested in Rome, identifying 30.000 "virtuous users", who obtained Euro 900.000 as fee reductions.

**MAIN ADVANTADGES / BENEFITS:**

By using UWMSS and by monitoring the weight of collected waste (separate or not) it is possible to: plan the services directly referring to the users' demand, measure the services' performance in a spatial articulated form (per container, per street, per zone), identify the users with the higher profile in separate collection, assign incentives.

The implementation of UWMSS will ensure the local authorities or companies to commensurate the service to the actual demand; this is the essential condition to optimize the use of the company's internal resources (both economic, human and instrumental) and to support the increase of the separate collection by implementing a more specific and articulated fee policy.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The UWMSS is a geographical system based on the ESRI technology.

To be implemented, UWMSS requires the availability of these data: a street coded network, the list of containers used to collect the waste (separate or not) with their addresses, the addresses of the users (domestic and commercial). The availability of other data concerning the services (that are the dump truck journeys to collect the waste, separate or not) and the associated costs, will permit a more extensive implementation of the system.

The UWMSS functionalities are listed below:

- build up the spatial image of the supply and of the demand,
- assign to each container a probability level of waste bestowal
- associate or modify the association of each container to a service
- associate the collected waste weight to each container (if needed) and evaluate the users' behavior
- verify (for each container, each street or service) the demand level
- design new services, on the basis of the supply / demand evaluation
- build up statistical reports concerning the supply / demand relationship in a chosen area or in a group of



services

- build up statistical reports concerning the costs related to the services.

To implement the system a spatial statistical model has been developed, which simulates the pedestrian travel from the own address to the nearest containers and assigns a probability value to each container on the basis of the calculated distance gradient.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

We are looking for a partner that currently works for local authorities or companies directly involved in the urban waste management and particularly in the separate waste collection and management. In-TIME is interested in establish commercial agreements or partnerships to integrate different solutions.

## INTINI ENERGIA & INTINI SOURCE

Page: **278**

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Phone	3400055344	
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www	www.gruppointini.com	
Organisation Type	Company	

### Contact Person

Name **EUGENIO DI SANTO**  
Position

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste selection and recycling	Technical Co-operation	» Offer
» Treatment of wastewater and water for domestic consumptions	Technological Co-operation	» Offer
» Techniques for the re-use of water	Joint research project	» Offer
» Biomass, bio-gas	Manufacturing agreement	»
» Pellets	Commercial agreement	» Offer
» Solar energy	Financial agreement	»
» Wind energy		
» Energy saving and efficiency		
» Building materials		

### Short description of company

**ORGANIZATION HISTORY/EXPERIENCE:** Intini Energia and Intini Source are owned by Gruppo Intini SPA, an Italian holding company established in the 1950's.

**INTINI ENERGY** is specialized in energy efficiency and production from renewable sources. Our mission is to build a "green" network (community-based and/or single customer-tailored) able to reduce energy costs, integrate income and diversification and reduce CO2 emissions in accordance with European, national and local standards.

**INTINI SOURCE** provides public administrations with integrated services for facility management and outsourcing, such as waste management (selection&recycling), waste water treatment, urban hygiene services, management of public lighting systems.

**FIELD OF ACTIVITIES:** Realization of greenfield facilities and plants for energy production from renewable sources, energy efficiency in urban & rural areas, waste management (e.g.: waste treatment, re-use of water,..).

#### MAIN PRODUCTS/SERVICES:

##### INTINI ENERGY

- integrated greenfield facilities (photovoltaics, small wind turbines, biomass&biogas exploitation plants) in rural areas, single farm-tailored or consortium-based;



- integrated greenfield facilities (photovoltaics) on urban utilities such as schools&universities, public buildings, gyms&sport facilities;
- land photovoltaic systems.

**INTINI SOURCE**

- Waste management (selection&recycling);
- Treatment of wastewater and water for domestic consumptions
- Techniques for the re-use of water

**TECHNOLOGIES:** photovoltaics, wind turbines, biomass&biogas exploitation plants.

**Supplier - Renewable nergy plants & greenfield facilities**

**DETAILED DESCRIPTION:**

INTINI ENERGY can design and realize plants for energy production from renewable sources as well as greenfield facilities in both rural and urban areas, for single customers or communities.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** Public Agencies/private companies interested in production of energy from renewable resources and installation of greenfield facilities.

**Services - Solid waste management & water treatment**

**DETAILED DESCRIPTION:**

INTINI SOURCE can supply services for waste management, wastewater treatment included

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** Public Agencies/private companies looking for expertise in waste (solid & water) management.



## IRIS-MEC SRL

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Phone	+39 0522 481047	
Email	commerciale@iris-mec.it	
www	www.iris-mec.it	
Organisation Type	Company	

Contact Person	
Name	<b>PATRIZIA BACCHI</b>
Position	Assistant Manager

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Waste selection and recycling	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement »

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Iris Mec Srl in a few years has become a leader in the production of machines to recycle the materials coming from end of life vehicles. Iris Mec products fully answer the demands of a growing market to work quickly, safely and respecting the EC directives to protect the environment. Iris Mec products are easy to use, technologically advanced, and projected to create a working environment efficient and safe. The success of this company comes from the success of its customers, who choose this brand as a synonymous of service and quality. The fidelity of its customers encourages the company to grow up and to offer them all the necessary products to create a working environment safe and in the forefront.</p> <p><b>FIELD OF ACTIVITIES:</b> Manufacturer of machines to recycle the materials coming from end of life vehicles. <b>MAIN PRODUCTS/SERVICES:</b> Machines to recycle the materials coming from end of life vehicles.</p>

Distribution - Looking for distributors or agents
<p><b>DETAILED DESCRIPTION:</b> Looking for distributors for our products with full assistance</p> <p><b>TYPE OR QUALIFICATION OF POTENTIAL PARTNER:</b> Company who can provide with full and complete service and assistance for our products. Distributor able to sell, install and provide for assistance and post-sales assistance with its own workshops.</p>

## ISOLANA SYSTEMS SRL

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www	www.isolana.net	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandro Martini</b>
Position	Managing Director

Areas of activity	Type of co-operation	
» Waste selection and recycling	Licence agreement	»
» End products made with salvaged material	Technical Co-operation	» Offer
» Eco-design and eco-compatible materials	Technological Co-operation	» Request
» Building materials	Joint research project	» Request
» Other Energy topics	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Isolana is a Tuscan Micro Company specialized in the field of sound and thermal insulation performed with 100% bio-compatible brand new materials. Isolana is active by 8 years in the national territory and has got many joint ventures with Italian and international farmers associations to better develop its business. Isolana works with many manufacturing company mainly based in Prato (Tuscany) where the strong competencies in the fields of textiles and carding technologies permit to realize a real short chain production.

#### FIELD OF ACTIVITIES:

Selection of raw materials and production of innovative thermal and sound insulating panels in 100% wool. Commercialization of products.

#### MAIN PRODUCTS/SERVICES:

Isolana produces innovative panels in 100% wool fibres (discarded during sorting for their too much strongness and therefore unsuitable for clothing). These are needled, washed, carded and rolled for producing insulating materials. Isolana also provides technical support for the best use of its products.

#### TECHNOLOGIES:

Textiles (carding) technologies, Sustainable sound and thermal insulation systems, smart building technologies





**Supplier - Looking for distributors and technical/technological partners mainly in Germany, France, Spain**

**DETAILED DESCRIPTION:**

We produce and commercialize insulating panels made of 100% wool, without addition of any glues or other synthetic materials. Discarded wool comes from farmers associations of all Italian Regions thanks to specific agreements that Isolana obtains. The raw materials are washed, needled and carded in Prato by a short chain manufacturing systems to obtain natural insulating panels mainly for buildings sector.

**MAIN ADVANTAGES/BENEFITS:**

Isolana solutions are suitable in the 70% of building types, with a saving of 30 kWh/mq x y. It means that for 100 mq empowered with Isolana products, we have a saving of a 1/3 of the energy used to heat and cold buildings and of 1 ton of CO2 emission. The investment returns in about 2 years; instead in only 2 months the energy needed for panels production is recovered. This is a 100% natural product with no impact on environment, using existing and discarded resources, with a guaranteed duration all through the life period of the product itself.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The thermal insulation capacity have a value of 0,0318 W/mK (UNI EN 12667/2002) and a specific heat value of 1,3 kJ/kgK. The panels have an operational temperature functioning range between -60 °C and 80°C, with a fire temperature of 600°C / Limit Oxygen Index 25. The very good sound absorption coefficient permits to Isolana panels to stay in the A Class provided by the ISO 354. Isolana is a water-repellent product.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

It would be good to have contacts with distributors of building materials and with technical/technological entities to develop new products for new markets.



## Istituto Tecnico Statale Nautico Aeronautico CARNARO - Brindisi

Page: **283**

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Email	gmaella@libero.it	
www	www.itncarnarobrindisi.it	
Organisation Type	Other	

### Contact Person

Name	<b>Giulio Teodoro Maellaro</b>
Position	Professor

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste treatment - plants and technologies	Technical Co-operation	» Offer
» Treatment of wastewater and water for domestic consumptions	Technological Co-operation	» Offer
» Techniques for the re-use of water	Joint research project	» Offer
» Sewage facilities	Manufacturing agreement	» Offer
» Cooling and ventilation equipment	Commercial agreement	»
» Other	Financial agreement	»
» Water energy		
» Energy saving and efficiency		
» Thermal disposals		
» Energy conversion		
» Other Energy topics		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The "ISTITUTO TECNICO STATALE NAUTICO AERONAUTICO "CARNARO" is a high school with a nearly sixty years tradition, active, dynamic, interested in cooperation with the business realities in order to qualify its training and involve students in new and challenging experiences.

#### FIELD OF ACTIVITIES:

Training in the maritime sector specifically aimed at training executive deck and machinery to work in Merchant Navy;

Training in aeronautics;

The school, thanks its large range of facilities and laboratory equipment, extends its offer to the field of energy management, which is the peculiar task of the Chief Engineer and in the field of alternative energy with the study of related issues.

#### MAIN PRODUCTS/SERVICES:

The school offers a specific technical training that markedly regards the use and the management of energy, with



particular reference to naval applications.

**TECHNOLOGIES:**

The school has numerous scientific laboratories, educational facilities, simulators, etc. ...

**Research - Energy from small sea waves**

**DETAILED DESCRIPTION:**

An energy production system exploiting the energy of low intensity waves (which are typical of the Mediterranean) has been designed by the school in cooperation with a local company (GECO – GLOBAL ENGINEERING CONSTRUCTIONS, BRINDISI)

The goal is to harness energy from a source until now considered marginal and analyse environmental impact. The system consists of modular concrete tanks, placed in the sea, partly submerged, located on the side of seawalls and breakwater barriers exposed to the waves or far away, parallel to the coastline, at a certain distance to protect the coast itself. The function of the tank wall exposed to the action of waves is to capture the waves. It is equipped to allow the entry of the waves and to prevent their exit. So, the water in the tank collects, up to a height greater than that of "calm sea" which is located on the sheltered side of the dam. The water collected in the tank has, therefore, potential energy, which can be exploited pouring the water in the calm sea through submerged pipes that come out from the tank and pass through the dam or breakwater barrier.

The transformation of the potential energy is made possible by water turbines inserted into pipes working thanks to the water flow. Each turbine sets in motion the electrical generator which is coupled to produce electrical energy. It is not necessary the use of antifouling substances.

The produced electrical energy can feed the electrical grid after stabilization or can be used for hydrogen production to be then managed using consolidated technologies.

The capturing wall of the tank is made of steel or composite material panels with horizontal openings through which water enters the tank. Each passage is closed by mobile floodgate. The waves open automatically the floodgates, allowing the entry of water into the tank.

Water enters but can not go out because of the automatic closure of the floodgates, caused by the hydrodynamic effect, so it collects in the tank reaching a level depending on the height of the waves. The floodgates act as "check valves".

An estimate of the power involved is difficult, because the exploitation of this energy source has not a historical past and because the proposed installation is completely new.

In the technical literature there are not developed theories or reliable data.

A module about 50 meters long and 6 meters wide should produce a useful power (electricity) of about 180 kW with a sea force 3. The power becomes equal to 2500 kW during periods of sea force 6.

An average annual output of 600 kW can be assumed with an estimated income of about € 430,000 per year. It has to be pointed out that the single module production can be indefinitely replicated along the coast, so amplifying the power to reach very interesting values in optimal conditions of sea.

The cost estimate should result from a final detailed design which can not ignore the choices made and the specific characteristics of the particular site location.

However, assuming a site whose depth is of the order of 10-15 meters, a total cost of approximately from € 800,000 to 1,000,000 can be estimated for each module of 50 meters. The costs may still be reduced by standardizing enforcement procedures.

**MAIN ADVANTADGES / BENEFITS:**

- exploitation of a renewable energy source;
- high power production by small plants;

- low operating costs reduced to maintenance costs;
- no production of CO<sub>2</sub>;
- positive environmental impact during construction, operation and decommissioning unlike other existing processes;
- no risk and dangerous implication;
- occupation of a marginal water-front that can not be used for other purposes;
- no alteration of the sea currents and the landscape;
- large quantities of water coming from offshore (which has been aired by the waves) are transferred beyond the dams, contributing to oxygen and to exchange the water of the closed basins by dikes (ports, etc.);
- collection of waste transported by waves;
- protection of dams and coastlines due to the tanks;
- no waste and wastewater;
- use of common materials, which do not cause recycling problems at the end of the production cycle;
- construction of extended plants using simple modules;
- use of simple technology already tested and used in other fields (protection of the coastline)

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

The school is looking for partners interested in the development of the designed system aimed at implementing a pilot plant to test the real potential of production, before moving to the execution phase of mass energy production.

The partner should have the financial resources required to fund the whole development.



## ITALGRIGLIATI Spa

Page: **286**

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Organisation Type	Company	

Contact Person	
Name	<b>Virginio Dal Col</b>
Position	Owner

Areas of activity	Type of co-operation
» Solar energy	Licence agreement »
» Building materials	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement » Offer
	Commercial agreement »
	Financial agreement »

Short description of company
FIELD OF ACTIVITIES: Production of grates and fences.

Manufacturing - Production of grates and fences.



## ITALPROGETTI engineering SpA

Page: **287**

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Phone	+39.0571.450477	
Email	info@italprogetti.it	
www	www.italprogetti.it	
Organisation Type	Company	

### Contact Person

Name	<b>Daniele Bacchi</b>
Position	Environmental div. Manager

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Saving water in intensive industrial manufacturing	Technical Co-operation » Offer
» Techniques for the re-use of water	Technological Co-operation » Offer
» Treatment and disposal of the resultant sludge	Joint research project » Request
» Sewage facilities	Manufacturing agreement »
» Other	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

ITALPROGETTI engineering is a company specialized in design and manufacturing machines and plants for environmental protection, and is active in more than 50 countries around the world in different industrial sectors.

The company was born in 1977, and is now active in different business area

- Environmental Division
- Food Division:Vegetable oil filtration and polishing
- Tannery Division: Equipment for tanning sector

#### FIELD OF ACTIVITIES:

The company is specialized in the following areas:

- leachate treatment
- tannery, slaughterhouse and textile effluent treatment and recovery
- paper board effluent treatment and recycle
- municipal effluent treatment
- MBR (membrane bio-reactors) compact plants
- liquid-solid separation and oils filtration and polishing plants

#### MAIN PRODUCTS/SERVICES:

The company is specialized in manufacturing the following equipment and systems:

- automatic cleaning screens





- membrane diffusers for aeration
- high pressure filterpresses
- wet scrubber, air and gas treatment, ammonia stripping
- MBR units

**TECHNOLOGIES:**

- MBR
- Solid Liquid separation
- Aeration

**Supplier - Solution for water treatment in our core expertise areas**

**DETAILED DESCRIPTION:**

Find agents, distributors or partner local contractor for free areas.

**MAIN ADVANTADGES / BENEFITS:**

Italprogetti has a strong background in water and effluent treatment, and is used to operate in foreign countries.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

**Export - Find agents and distributor in free areas**

**DETAILED DESCRIPTION:**

Find agents, distributors or partner local contractor for free areas

**MAIN ADVANTADGES / BENEFITS:**

Italprogetti has a strong background in water and effluent treatment, and is used to operate in foreign countries.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

## Klyma srl

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Address	C.so d'Augusto 208 47900 - Rimini	<b>Italy</b>
Phone	00390541020204	
Email	info@klyma.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Lucio Colla</b>
Position	CEO

Areas of activity	Type of co-operation	
» Treatment and disposal of the resultant sludge	Licence agreement	»
» Energy from waste and biomass	Technical Co-operation	» Offer/Request
» Biomass, bio-gas	Technological Co-operation	» Offer/Request
» Energy saving and efficiency	Joint research project	» Offer/Request
» Energy conversion	Manufacturing agreement	» Request
» Secondary fuels	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:**Our team of engineers is involved from many years in applied research in the field of energy production from removable sources and collaborates with different departments of more important Italian Universities. We find our new resources among the graduates that carry on training and or degree thesis inside our company. Our company has been re-established in 2009 to associate the best young people.

**FIELD OF ACTIVITIES:**Thermo chemical process computational modeling and pyrolysis and gasification plant design for biomass and domestic waste. Biological process for carbon dioxide sequestration form combustion flue gas.

**MAIN PRODUCTS/SERVICES:** Consulting services and design; technical and technological support; scientific documentation.

**TECHNOLOGIES:**Thermo chemical and biological process

### **Research - We are looking for partners interested to cooperate in our field for consultancy and or manufacture thermo chemical and biological systems**

#### DETAILED DESCRIPTION:

We offer design services and computational modeling for chemical, thermo chemical and biological processes. We ask for partners interested to enter in foreign markets. We are looking for equipment suppliers in all fields of



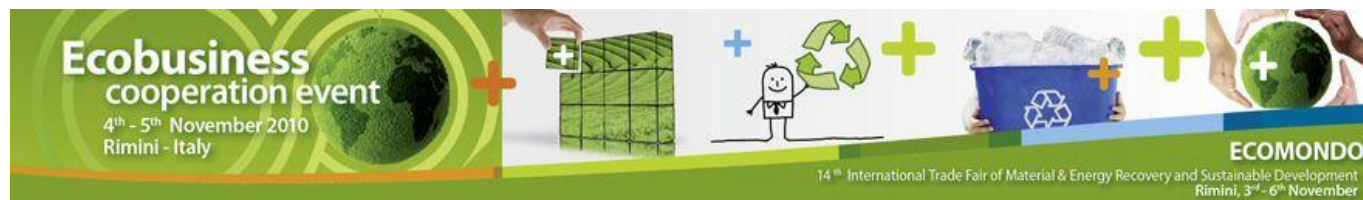
our interest. We are interested in further cooperation and agreements with Universities and Research Institutes  
MAIN ADVANTADGES / BENEFITS:

Know-how exchange and competitive advantages in technological innovation

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Distributor, manufacturer, supplier and subcontractor.



## Labiotech SRL

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Address	Via Pramollo 6 33040 - Grions del Torre	<b>Italy</b>
Phone	+39 0432 634 449	
Email	labio.test@labiotest.it	
www	www.labiotest.it	
Organisation Type	Company	

### Contact Person

Name	<b>Marco Casula</b>
Position	Export Manager

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste collection	Technical Co-operation »
» Waste storage and transport	Technological Co-operation »
» Waste treatment - plants and technologies	Joint research project »
» Waste selection and recycling	Manufacturing agreement »
» Treatment and disposal of the resultant sludge	Commercial agreement » Request
» Cooling and ventilation equipment	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Labiotech is part of LUCI GROUP, a group of companies involved in environmental solution and applications. It comes with more than 20 years experience in Odor Treatment. Labiotech headquarter in Italy has about 15 employees, and a domestic sales network covering territory nationwide. Representative offices are located in Usa, Brasil and China. Direct distributors are located in Poland, Spain, Ireland, Great Britain, Hungary, Australia, Czech Republic, Hong Kong, Holland, Turkey.

#### FIELD OF ACTIVITIES:

Labiotech systems and products for odor abatement are currently used in waste water treatment plants, solid waste collection and treatment, industrial sectors such as laundries, chemical industries, rendering, food production, fats production, paper mills and many others, civil sector, such as hospital, restaurant, offices, hotels and public business in general.

#### MAIN PRODUCTS/SERVICES:

Main product lines are Osmogenic Barriers, biological treatment, activated carbon dry filters, wet scrubbers, covering panels for tanks, dust abatement systems. Labiotech can offer design, installation, maintenance and consultancy for any question related to the application of the above solutions.



#### TECHNOLOGIES:

Labiotech is constantly committed in R&d, thanks to its experience and link with Scientific Park of Udine, Milan Politecnico, University of Udine and other Institutions. Main technologies applied are related to application of specific design products which are properly selected for a specific problem to be solved.

**Distribution - We currently looking for improve our sales network in different Countries, where we are already present and hopefully new ones.**

**DETAILED DESCRIPTION:** Odour abatement system, consisting into Osmogenic barrier, made upon nebulizing systems, or filtering units such dry carbon filter and wet scrubber. We do provide biological products, specifically made by selected bacteria, which are used on organic waste residual to avoid odor emission.

**MAIN ADVANTADGES / BENEFITS:** All Labiotech products are safe for human, can be easily stored and delivered, are not classified as hazardous material and can be transported without specific authorization (ADR). Thanks to the specific formulation, can be used in reduced dilution per liter (such as 0,3%), therefore consumption rate is limited.

#### TECHNICAL SPECIFICATIONS

We describe hereafter the basic knowledge of odor control.

The problem of odors is certainly not a new issue; nevertheless, a growing attention has been paid to it in the last few years (also due to a greater sensitivity of the population regarding this type of troubles).

Although a good number of techniques are available for the prevention and abatement of odors, it is not always easy to identify the most suitable system, as phenomena are rather complex. Another problem is due to the difficulties in using methods permitting to survey and measure malodorous gases; and yet, this activity is essential to test various treatments and evaluate their effectiveness.

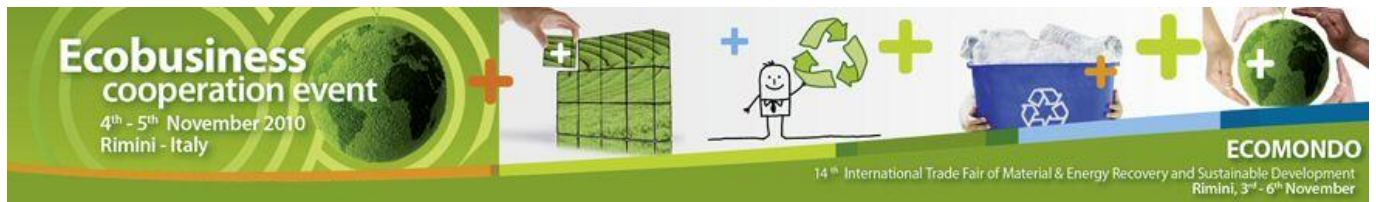
#### MEASUREMENT OF ODORS

The perception of odors is always related to the emission of volatile substances, mostly soluble in water, which can be identified and quantified through usual methods, such as a chemical analysis (colorimetry, gas-chromatography, etc.). For the time being, considering what is known about odors, it is not possible to establish a direct relationship between the olfactive sensation and the concentration of substances responsible for the odor, if not in the case of specific substances (e.g. hydrogen sulphide) and with empirical types of correlations. Odors coming from a landfill, from a waste waters treatment plant or from a composting plant are typical examples of emissions formed by hundreds of volatile, organic and inorganic compounds that are often difficult to identify; besides, their concentration does not give us any clue on their nuisance as regards smells. As an example, it would be like trying to evaluate the taste of a wine by interpreting its chemical analysis. It may be said that the measurement of odors constitutes a much debated aspect of the problem to be defined. This is the reason why it is important to adopt a proper measurement methodology, without which it would be difficult:

- to define design parameters precisely and properly (intensity and typology of odors), which is essential to identify the most suitable technology to control odors in each specific case;
- to evaluate the efficiency of systems used to control odors.

#### OLFACTOMETRY AS AN OBJECTIVATION OF ODOR

The problem of objectivation can be dealt with in two different ways: through an analysis permitting to investigate the quantities and the types of smelly mixtures present in an emission or through senses. For some



MSW treatment and selection plants, waste waters treatment plants, sludge treatment plants, etc., it is impossible to use an analytical approach as there are too many components present in the smelly mixture. The method based on senses for the determination of odors, according to the EC Directive (adopted in Italy as UNI EN 13725), is called “dynamic olfactometry” and considers a judgment based on the perception of the emission. The smelly sample, in such cases, is sent through an adequate dilution system called olfactometer used by a group of judges to evaluate if the sample can be perceived.

#### ACTIVITIES AND TYPES OF ACTIONS

Labiotech is involved in activities regarding three different fields of action:

- osmogenic barriers;
- biological products;
- dry scrubbers.

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Typical partner is currently involved in waste business, normally as distributor of product and appliances for the specific field.

It is welcome a partner with is involved in waste water treatment technology, in all aspects. Other field where a possible partner can be founded are industrial and civil sector, for example supplier of tools for restaurant chain, hospitals, chemical plant.

He does know market dynamics and customer in the territory.



## LADURNER AMBIENTE SPA

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Address	VIA INNSBRUCK 33 39100 - BOLZANO	<b>Italy</b>
Phone	041-4265500	
Email	francesca@idecom.it	
www	www.ladurnerambiente.it	
Organisation Type	Company	

### Contact Person

Name	<b>CAVICCHIOLI LORENZO</b>
Position	

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Energy from waste and biomass	Technical Co-operation » Offer
» Wastes processing and their utilization as secondary raw materials	Technological Co-operation » Offer
» Biomass, bio-gas	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Born in 1990 from the breaking down of the waters purification plant designs activity, Ladurner currently offers 360 degrees solutions in the field of environment issues and in the renewable energy production.

**FIELD OF ACTIVITIES:** Ladurner Ambiente Spa, with its operating subsidiaries, is one of the main organizations in the environmental field in Italy, active in the production and the management of household waste treatment, in the production of renewable energy from liquid and solid waste and from agricultural biomass, systems and machines for the treatment of effluent waters, both civil and industrial, in the technology and machineries marketing, in the contaminated sites reclamation and in the specialistic environmental consulting.

**MAIN PRODUCTS/SERVICES:** renewable energy (Residue derived fuel (RDF) production systems and Biogas production systems), highly value-added technologies and environmental services

#### TECHNOLOGIES:

- Biostabilization systems (RDF and composting)
- Anaerobic systems for the Biogas Production



- Solid waste thermovalorization plants
- Waste treatment machines
- Waste treatment system management
- Electrical Energy production from renewable agricultural sources
- Electrical Energy from Waste production
- Production of Electric Energy from renewable agricultural sources

**Services - OFFER services for waste treatment, production of renewable energy from liquid and solid waste and from agricultural biomass**

we offer cooperation for:

Biostabilization systems (RDF and composting)

- Anaerobic systems for the Biogas Production
- Solid waste thermovalorization plants
- Waste treatment machines
- Waste treatment system management
- Electrical Energy production from renewable agricultural sources
- Electrical Energy from

Waste production

- Production of Electric Energy from renewable agricultural sources



## L.A.V. S.r.l.

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Address	via Nuova Circonvallazione 57/D 47924 - Rimini	Italy
Phone	+390541777213	
Email	lav@lavrimini.com	
www	http:www.lavrimini.com	
Organisation Type	Company	

### Contact Person

Name	<b>Oberdan Pizzoni</b>
Position	Public Relations Manger

Areas of activity	Type of co-operation	
» Other	Licence agreement	» Offer/Request
	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

L.A.V. S.r.l. was founded in 1982 in Rimini (Italy). Since then, it has been providing a wide range of services, from laboratory analysis to technical and legislative consultation.

L.A.V. focuses on customer satisfaction, by investing steadily in new technology and professional updating and by getting every year new qualifying certifications, such as Sinal/Accrditation and ISO 9001 Certification.

#### FIELD OF ACTIVITIES:

L.A.V. is an analysis laboratory and a consultancy centre for industry and the environment.

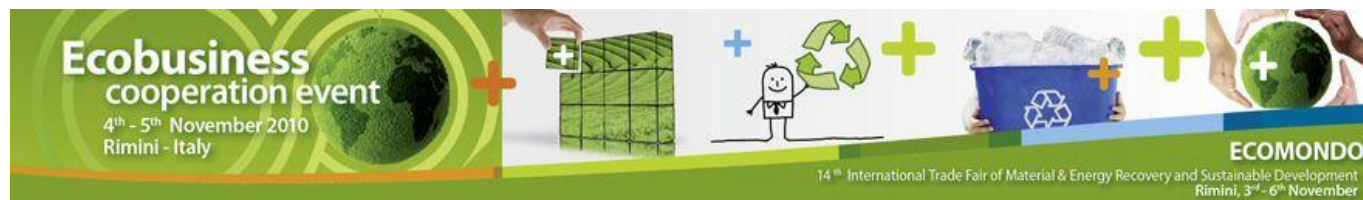
Today the company operates in 6 areas: chemistry laboratory, microbiology laboratory, environment, workplace safety and fire prevention, food hygiene and traceability, system for managing quality-environment-safety.

#### MAIN PRODUCTS/SERVICES:

Chemistry laboratory: chemical and chemical-physical analysis on soils, muds, drinking water, groundwater, waste water, liquid and solid waste, air, foods.

Microbiology laboratory: microbiological anaylis on fodd, drinking water, swimming pool water, waste water, muds, soils, ect., tests on surfaces in workplaces, air tests, technological tests (fabrics, disinfectants, plastics), research into hazardous substances in foods (mycotoxins).

Workplace safety and fire prevention: assistance to employers in evaluating risks to health and safety of workers and production of relative Document, carrying out function of Service Manager, prevention and protection service officer, technical and management support in fulfilling legal requirements for health and safety at work, explosive atmosphere risk assessment (ATEX), etc.



## LEnviroS srl

Page: 297

Address	via Orabona, 4 70125 - Bari	Italy
Phone	0803971186	
Email	info@lenviros.it	
www	www.lenviros.it	
Organisation Type	Company	

### Contact Person

Name	<b>Gianluigi de Gennaro</b>
Position	Technical Director

Areas of activity	Type of co-operation
» Waste management	Licence agreement
» Waste treatment - plants and technologies	Technical Co-operation
» Eco-design and eco-compatible materials	Technological Co-operation
» Other	Joint research project
» Energy from waste and biomass	Manufacturing agreement
» Biomass, bio-gas	Commercial agreement
» Building materials	Financial agreement
» Other Energy topics	

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

LEnviroS srl is a spin off company of the Department of Chemistry of the University of Bari started up in 2005 with the aim to transfer the academic experience acquired in the environmental field to the territory. The company provides high value added services in the environmental field by means of an high scientific and technological knowledge.

#### FIELD OF ACTIVITIES:

Environmental Chemistry

#### MAIN PRODUCTS/SERVICES:

- Sustainable Solutions in:
- Innovative techniques for air quality monitoring (outdoor areas, indoor areas, working environment)
- Planning, carrying out and management of air quality monitoring actions
- Planning and management of informative systems and environmental decisional supports
- Technical support evaluation in olfactive impact of industrial plants and technologies for odor abatement
- Odour substances characterization by means of active or diffusive samplers
- Technical support and development of innovative solutions in order to design products and industrial processes REACH-compliant
- Evaluation of Environmental Impact
- Management of Environmental Data Elaboration Centre

## Services - Evaluation in olfactive impact of industrial plants and technologies for odor abatement

### DETAILED DESCRIPTION:

The emission of Volatile Organic Compounds, which generally results from materials and/or industrial activities, can represent the cause of acute and/or chronic pathologies for exposed people. As some VOC are smelling compounds, regardless of the damage to health, they can cause annoyance for their bad odor. The emission of VOC represents not only an important indicator for the evaluation of air quality but even an element for the estimation of the environmental sustainability of the new materials and technologies.

Lenviros srl performs odor emission monitoring caused by different industrial plants through dynamic olfactometry methodology, described by European Law EN 13725 "Odour concentration measurement by dynamic olfactometry". Currently it is the only available technique able to provide an objective measure of the odor concentration of air sample, valuating the olfactive perception of an odor selected panel.

Olfactory laboratory can execute analysis of samples collected by every type of emitting sources, thanks to the equipment of appropriate instrumentation. Therefore it is possible to carry out sampling both on punctual sources and on areal ones (such as biofilters, tanks, waste cumulus...).

Moreover, studies of odor releases and their relapses at different distances from emissive sources can be realized using dispersion models.

### MAIN ADVANTADGES / BENEFITS:

The services offered by Lenviros srl, concerning odor and material emissions, are supported by a technical and scientific knowledge developed in university and by innovative methodologies.

In fact olfactometric laboratory represents one of the few centres existing in Italy and it is the only one in the South of Italy.

In the perspective of a sustainable planning of industrial areas, this tool could be really useful for the Public Administration, in order to establish the critical sites with the higher olfactory impact on the surrounding areas. At same time, private Companies can use this tool for monitoring and planning their industrial activities.

The services offered by the company are characterized by scientific approach, guarantee of competence and versatility, difficult to find on the market.

### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

LEnviros srl can offer the following services:

- evaluation of olfactory impact of industrial plants through olfactometric analysis, according to UNI EN 13725/2004, for samples deriving from any types of sources (chimneys, biofilters, material accumulations, tanks, etc.);
- evaluation of odor releases and of their relapses at different distances from emissive sources;
- chemistry characterization of emissions through the identification and the quantification of VOC;
- determination of critical phases of an industrial process, that cause odor emission;
- assistance for the prevention and for the reduction of odor emissions;
- assistance for planning and an appropriate management of abatement systems (scrubber, biofilters).
- planning and realization of integrated monitoring plans (dynamic olfactometry – instrumental methods – dispersion models)
- validation of new materials with low emission impact already on the market;
- evaluation of VOC emissions by materials usually used in indoor environments in order to support the development of new materials with low impact and/or enhance the existing ones.



**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Potential partners are represented by:

- industrial plants, having odor emission problems caused by their processes (landfills, civil and industrial wastewater treatment plants, composting plants, tanneries, refineries, slaughterhouses, distilleries). These companies could be interested in the determination of their emissions and in preventing and reducing them;
- industrial companies involved in the production of materials used in indoor environments that could get support to the development of new materials with low impact and/or enhance the existing ones;
- industrial companies dealing with the development of abatement systems for odor emission reduction, interested in testing them;
- Public Administration that can get support in its decisional process in planning activities;
- Research centres interested in collaboration to investigate on several aspects of odor emission field





## Luce di Pagnutti Bruna

Page: **300**

Address	Via S. Maria del Piano di sotto n. 76 47854 - Montescudo	<b>Italy</b>
Phone	0541 983242	
Email	info@lu-ce.com	
www	www.lu-ce.com	
Organisation Type	Company	

### Contact Person

Name	<b>Bruna Pagnutti</b>
Position	Titolare

Areas of activity	Type of co-operation
» End products made with salvaged material	Licence agreement
» Eco-design and eco-compatible materials	Technical Co-operation
» Solar energy	Technological Co-operation
» Energy saving and efficiency	Joint research project
» Other Energy topics	Manufacturing agreement
	Commercial agreement
	Financial agreement

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: "Luce" is a young company that produces components for lighting, focusing in product safety, which are certificated by the European ENEC03 trademark and works with the Quality System complies with ISO 9001-2000.

FIELD OF ACTIVITIES: The company produces a full range of lampholders and accessories for all lighting systems. It works in partnership with companies that produce lighting devices. The line of components produced, comes from by an innovative and simple idea: standardize and integrate the full of products in order to facilitate the use and recycling by involving the fewest resources possible.

MAIN PRODUCTS/SERVICES Production of lampholders and components/accessories for all lighting systems.

TECHNOLOGIES:Luce works using innovative technologies (machineries and informative systems).

### Manufacturing - cooperation business lighting and renewable energy

DETAILED DESCRIPTION: Production of new products designed for using as few resources as possible throughout the life cycle of the product.

Type OR QUALIFICATION OF POTENTIAL PARTNER: Reliable companies interested in collaborating on the industrialization of lighting products.

## LYMPHA s.r.l.

Page: **301**

Address	Viale delle Scienze, Edificio 16 90133 - Palermo	<b>Italy</b>
Phone	0039 091 6615611	
Email	fmontagnino@consorzioarca.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Dott. Fabio Maria Montagnino</b>
Position	Consultant

Areas of activity	Type of co-operation	
» Treatment of wastewater and water for domestic consumptions	Licence agreement	»
» Techniques for the re-use of water	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	» Offer

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The company was set up in 2010 on the initiative of a group of researchers who in recent times have achieved considerable expertise in the development of desalination units powered by non-conventional energy sources. In particular, the company is developing a methodology for a desalination membrane pilot unit completely powered by non-conventional energy, aimed at creating a product designed for small communities of the Mediterranean zones or similar areas or with availability of heat from waste.

#### FIELD OF ACTIVITIES:

The objective of LYMPHA is the production of small units of membrane distillation for desalination of seawater. Compact units, transportable and powered by any type of heat source at low and medium temperature in order to bring clean water to remote sites, at sea or in areas affected by environmental disasters. In addition to desalination large-size plants, smaller plants are increasing their number which are more locally distributed and can better satisfy local specific needs.

#### MAIN PRODUCTS/SERVICES:

The desalination membrane that the company is developing is aimed at a target market consisting of small communities where there are no other options for drinking water supply and where there is a need that the total cost and operational complexity of the process desalination remain low.

The business opportunities of such a desalination system present interesting possibilities for use by market



niches that feel the need to use low-cost systems or are able to take advantage of residual energy from plants that disperse heat from the primary cycle. Further to this work, the company envisages to exploit the value of such a desalination plant in the field of yachting.

**TECHNOLOGIES:**

The technology of desalination by membrane distillation is now still in an early stage of technological development that has already shown, however, an important potential for applications in the field of desalination. A small-scale laboratory unit has already been implemented and tested at the research laboratory the company works with, to identify operational problems, optimization criteria and potential for development.

**Services - Distribution : need to develop external business relationships/Investment - need to contact investors focused on start up innovative companies**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER**

The company is interested in meeting potential investors industrial partners and distributors in the sector of innovative techniques applied to distillation, purification or concentration of water.

## M.M. SR

Page: **303**

Address	Via Antonio Zanussi, 300/302 33100 - UDINE	<b>Italy</b>
Phone	0432 522970	
Email	p.turri@mmgrigliati.it	
www	www.mmgrigliati.it	
Organisation Type	Company	

### Contact Person

Name	<b>Pierpaolo TURRI</b>
Position	Export Manager

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste treatment - plants and technologies	Technical Co-operation	»
» Treatment of wastewater and water for domestic consumptions	Technological Co-operation	»
» Treatment and disposal of the resultant sludge	Joint research project	»
» Sewage facilities	Manufacturing agreement	»
» Cooling and ventilation equipment	Commercial agreement	» Offer/Request
» Other	Financial agreement	»
» Energy from waste and biomass		
» Wind energy		
» Water energy		

### Short description of company

#### DETAILED DESCRIPTION:

M.M. S.r.l. has an enviable experience in the fibreglass reinforced polyester FRP - GRP field, since it has been producing high quality manufactures for over thirty years. It provides its customers with:

- moulded grating (available in a wide range of meshes and thicknesses)
- pultruded grating
- pultruded profiles
- enclosures
- composite structures (parapets, gangways, ladders, stairways)
- fittings, bolts and nuts

M.M. grating and products are characterised by: high resistance to chemical and atmospheric agents, high mechanical/weight ratio, no softening to heat, unlimited life, lightness, dimensional stability, high dielectric properties. They are also easy to install and do not require maintenance.

These products suit many applications in the chemical, galvanic, mining, textile and food industries; as well as electric stations, paper mills, depuration plants and Municipal waterworks. The intrinsic properties of FRP - GRP are mostly exalted in the corrosive environments in general, in particular in the naval industry.

M.M. S.r.l. provides its customers with value-added services, such as technical engineering, structural calculations for composite materials, feasibility study for new FRP - GRP products, corrosion studies, technical

advice, cutting and shaping.

**MAIN ADVANTADGES / BENEFITS:**

Specified above

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

M.M. s.r.l. gives special attention to the developing phase. The company is well aware of the fact that the value added actually arises in the upstream processes, i.e. in defining specific solutions that can satisfy the customers' most diverse needs. The quality of the physical output is then just the concretization of these values.

M.M. s.r.l. can rely on its technical experts, who are able to provide the customers with a valuable advice in the field of plastic materials reinforced by glass fibres ( FRP - GRP ). The team is able to design any kind of product, whether simple or complex, always assuring high quality and precision. Commercial and marketing managers, technicians, production managers work closely together in order to provide the customer with a valuable output.

In particular, its technicians are highly skilled in:

- CAD 2D/3DC design
- structural calculating for composite materials
- feasibility study for new FRP ( GRP ) products
- corrosion studies
- advices on questions/matters related to composite materials.

Technical knowledge, together with a powerful information system, allow an organic planning, from the first formulation to the final restitution of the technical documentation.

For huge projects, M.M. srl activated many collaborations with competent professionals and offices

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Agents or importers

**Distribution - We would like to meet people who want to sell our products in their country.**

We are looking for new business partners, agents or distributors all over Europe, Middle East and Mediterranean area.



## Ma.E.L. ENERGIA

Page: **305**

Address	Luigi Mercantini 16 80125 - Napoli	<b>Italy</b>
Phone	0813444374	
Email	vincenzolazzo@virgilio.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Lazzo Vincenzo</b>
Position	administrator

Areas of activity	Type of co-operation	
» Biomass, bio-gas	Licence agreement	»
» Solar energy	Technical Co-operation	» Offer
» Wind energy	Technological Co-operation	» Offer
» Water energy	Joint research project	»
» Fuel cells	Manufacturing agreement	»
» Geothermal energy	Commercial agreement	» Offer
» Energy saving and efficiency	Financial agreement	»
» Energy conversion		
» Building materials		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The Ma.E.L. ENERGY s.a.s. turns his attention to civil and industrial sectors, and all types of intervention in the energy sector, with reference to electrical, energy management, energy saving direct to cogeneration and renewable generation

#### FIELD OF ACTIVITIES:

Services Engineering and Technological Advice.

#### MAIN PRODUCTS/SERVICES:

ELECTRICAL DESIGN, Systems using renewable energy, ENVIRONMENTAL CONSULTING, Energy Consulting



## MANAGEMENT INNOVATION srl

Page: **306**

Address	Viale della Galassia 43 00040 - Rocca Priora	<b>Italy</b>
Phone	069406339	
Email	emilio.sassone@gmail.com	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Emilio Sassone Corsi</b>
Position	Senior Consultant & CEO

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Eco-design and eco-compatible materials	Technical Co-operation	» Offer
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Technological Co-operation	» Offer
» Sustainable mobility electric vehicles	Joint research project	» Offer
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility	Manufacturing agreement	»
» Energy from waste and biomass	Commercial agreement	» Offer/Request
» Biomass, bio-gas	Financial agreement	»
» Solar energy		
» Wind energy		
» Geothermal energy		
» Energy saving and efficiency		
» Building materials		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Management Innovation (MAIN), is a Consultancy Company founded by a small group of high level managers coming from multinational experiences at the beginning of 2008.

#### FIELD OF ACTIVITIES:

Main activity lines of MAIN are:

- Innovation Services to Enterprises in relation to
- technology
- management and organization
- processes and products
- financial management
- Implementation of support services during incubation and development of newly founded innovative enterprises
- Technology Transfer services between Research institutions and SMEs



- Implementation of Energy Innovation projects
- IT Processes managerial consultancy
- Education on Innovation Themes for SMEs
- Development of an Innovation and New Technologies Observatory.

**MAIN PRODUCTS/SERVICES:**

in the sector of Energy Innovation MAIN cooperates with some researchers in ENEA to address a project that study the possibility to produce Methane from CO<sub>2</sub> and Hidrogen (a specific patent of these researchers). MAIN also study the possibility to apply an energy saving integrated approach to a "green tower" located in Frascati (Rome)

**TECHNOLOGIES:**

use of a patent to produce Methane from CO<sub>2</sub> and Hidrogen

## MARCOLIN COVERING SRL

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Email	federica.sartor@marcolinsrl.it	
www	www.marcolinsrl.it	
Organisation Type	Company	

### Contact Person

Name	<b>LUCA MARCOLIN</b>
Position	TRADE MANAGER

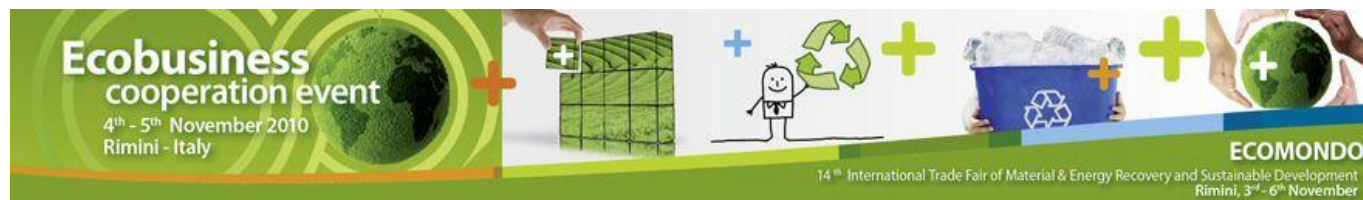
Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Offer
» Waste collection	Technical Co-operation	»
» Waste storage and transport	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

Marcolin Covering, has been projecting, producing and installing PVC coverings for over forty years. In particular, Marcolin Covering produces a wide range of PVC coverings for industrial vehicles and for skips for waste transport and stocking. In over ten years the company has developed several patents, which besides increasing innovative operation solutions, introduced spare parts and optionals to personalize the products as much as possible, and to make solutions improving the quality and functionality of the coverings available. Marcolin Covering is also able to project and carry out covering systems for stocking basins and sites for waste stocking. The coverings produced with metal structure in galvanized steel and covering sheet in PVC, are in compliance with the UNI U50.00.299.0, CNR 10011/88, UNI EN 13782, EC-3, EC-1 prescriptions and enable to cover and uncover also huge areas with minimum dimensions. For all its products, Marcolin Covering offers a high qualified after-sales service, efficient and particularly careful to reduce to a minimum the discomfort to the customers, owing, for example, to the means stop.

### **Export - THE COMPANY IS LOOKING FOR TRADE AGREEMENTS FOR DISTRIBUTION OF COVERINGS FOR SKIPS, CONTAINER AND SHEET OF PROTECTION OF WASTE STOCKING BASINS AND S**

DETAILED DESCRIPTION: Marcolin Covering's Research and development enabled the company to increase innovative differentiated covering solutions according to the different types of means and different customer's requirements. A range of spare parts and optionals completes the offer and enables Marcolin coverings to reach upper quality and functionality levels. The internal design finally enables to reach the maximum degree of personalization of the coverings and guarantees a continuous assistance to the customer during all development phases of the project.



## MEDIASOFT SISTEMI

Page: **309**

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Phone	0039 045 6304236	
Email	stefano.fasoli@msistemi.it	
www	www.msistemi.it	
Organisation Type	Company	

### Contact Person

Name	<b>Stefano Fasoli</b>
Position	Owner

Areas of activity	Type of co-operation
» Sewage services	Licence agreement »
» Other Energy topics	Technical Co-operation » Offer
	Technological Co-operation » Offer
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

FIELD OF ACTIVITIES: This company is specialized in realizing alarm systems for sewage treatment plants, depuration water plants and potable water.

### Distribution - remote control of sewage treatment plants

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: We are looking for companies in the field for the treatment of wastewater and water for domestic consumptions and sewage facilities.

## MEEO S.r.l

Page: **310**

Address	via Saragat, 9 44122 - Ferrara	<b>Italy</b>
Phone	+39 0532 1861501	
Email	pasetti@meeo.it	
www	www.meeo.it	
Organisation Type	Company	

### Contact Person

Name	<b>Stefania Pasetti</b>
Position	Project Manager

Areas of activity	Type of co-operation	
» Other	Licence agreement	»
» Biomass, bio-gas	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	» Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

MEEO was founded in Ferrara in 2004, when 3 physicists (Marco Folegani, Stefano Natali, Simone Mantovani) decided to found a privately-held company in the field of environmental monitoring.

The use of multispectral/hyperspectral satellite data for the most different purposes (air quality monitoring, land use classification, rainfall rate estimation, urbanization monitoring, crop-yield estimation inside) is the current core business of the company.

MEEO is a Value Added Partner of the European Space Agency (ESA) since 2006. In 2009 another company was founded: SISTEMA GmbH, which represents an extension of MEEO commercial, research and development activities.

SISTEMA GmbH works as a foreign branch of MEEO and it is based in Vienna, Austria, a strategic position for commercial initiatives toward central Europe and Eastern European Countries (Czech Republic, Hungary, Romania as first countries).

SISTEMA GmbH is the official distributor of MEEO products and aims also at improving the products realizing specific research and development activities in direct contact with customers and end-users.

#### FIELD OF ACTIVITIES:

Environmental Monitoring, Territorial Management, Information Technology\_

#### MAIN PRODUCTS/SERVICES:

Services for environmental monitoring, such as the following:

-air quality monitoring



- automatic soil classification and temporal evolution analysis
  - important phenomena related to climate change (floods, desertification)
  - heat island
  - urbanization
  - precipitation estimates
  - biofuel crops monitoring
  - agricultural crops growth monitoring and estimation
  - urban expansion monitoring
  - large works monitoring
- SOIL MAPPER, PM MAPPER, MEA are the main products/services.

**TECHNOLOGIES:**

Remote sensing technologies, processing of satellite data.

**Services - Environmental Monitoring Solutions: air quality, soil classification and temporal analysis, biofuel crops, climate change**

**DETAILED DESCRIPTION:**

MEEO S.r.l provides services, consulting and research on environmental monitoring, such as the following:

- air quality monitoring
- automatic soil classification and temporal evolution analysis
- important phenomena related to climate change (floods, desertification)
- heat island
- urbanization
- precipitation estimates
- biofuel crops monitoring
- agricultural crops growth monitoring and estimation
- urban expansion monitoring
- large works monitoring

Its main services are on ESA (European Space Agency) Service Support Environment (SSE) portal at the following link: <http://services.esa.int/portal/user/GetCompanyInfo.do?companyId=0F806B80>.

**MAIN ADVANTAGES / BENEFITS:**

Remote sensing technology based solutions provide a local-to-global scale monitoring.

MEEO S.r.l products offer earth observation maps with a large geographic coverage instead of punctual informations.

MEEO S.r.l is a value added ESA partner and its products are compliant with ESA quality standard ECSS.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The products and services offered are based on remote sensing technology: SOIL MAPPER, PM MAPPER, MEA, consist in satellite images processing by using different sensors.

PM MAPPER provides air quality PM concentration maps with a spatial resolution of 1km;

SOIL MAPPER provides land use classification maps, up to a 50 cm of spatial resolution;

MEA stands for Multi-sensor Evolution Analysis to detect a specific feature from related land cover changes over time.





**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

any European company looking for satellite images processing expertise or willing to expand their business operations or to collaborate on earth observation reasearch project.

**Supplier - Information and Communication Technology (ICT) services**

**DETAILED DESCRIPTION:**

MEEO offers IT expertise for the implementation of an IT project or offers services to design and implement data base, mainly with open source tecnology.

**MAIN ADVANTADGES / BENEFITS:**

Consolidated experiences in database design and implementation.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Expertise in database design and implementation, hardware and software design.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

any European company looking for IT expertise on database design and implementation or willing to collaborate on reasearch project.

## MENDIZZA SRL

Page: **313**

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Email	sales@mendizza.com	
www	www.mendizza.com	
Organisation Type	Company	

### Contact Person

Name	<b>Claudio Greggio</b>
Position	

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Treatment of wastewater and water for domestic consumptions	Technical Co-operation »
» Cooling and ventilation equipment	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### DETAILED DESCRIPTION:

Since 1993, Mendizza operates in the field of humidification in small and large environments. With our wealth of experience, research and specialisation, we can offer the quality of our NEBBIASECCA products with the added value of our professional designing, building, installation and servicing. Our new line of Nebbiasecca® humidifiers can be used and integrated in any area to achieve full benefits with no need for restructuring, as a support to existing conditioning systems or as a system in open air to reduce dust and bad smells. Our team has been specializing through long and continuous experience, training and research to offer customized systems that bring the best solution for any humidification need. The whole process of designing, building, installing and servicing our systems is tailored to each customer's need.

#### FIELD OF ACTIVITY :

MENDIZZA is a company with specific know-how in fog producing, aiming to carry out problem solving of dust, bad smell suppression, electro-static charges, temperature reduction, air quality, weight loss and more, by use of very fine fog.

MAIN PRODUCTS/SERVICES: : Water spray-fog machine, production and installation

#### TECHNOLOGIES:

Innovative system to generate small droplets/fog

### **Distribution - we are looking for importers or agents**

**MAIN ADVANTAGES/ BENEFITS:** Solved problems: Static electricity, Production waste, Suspended particulate matter, Odour suppression, Air quality, Reduction of temperature

**Static electricity:** An uneven or insufficient level of humidity can often damage materials, semi-finished products and machinery, thus slowing down or forcing stops on your production process. In the electronics industry, for example, there are problems with high voltage discharges on electronic parts. This leads to higher production waste and lower product reliability. Static electricity is significantly reduced when relative humidity is kept above a standard level (around 50%). For example, poor control of humidity in a data centre can bring about static electricity accumulation, and shocks from it can erase memories and damage electronic components. Or, if the air is too dry, high speed printers can generate static charges during paper feed operations.

**Production waste:** The correct level of humidity improves quality and reduces waste. A level of humidity that is changeable or too low can often damage materials and semi-finished products: this causes higher waste before and during your production process. In the wood industry, if the air is too dry, wood loses moisture. When wood is cut or processed, its surface may change or even crack. Besides, equipment wears out more quickly if processed materials are not correctly preconditioned. Wood "shrinks", causing cracks or shape changes. The same kind of damage can be seen in paper, fabrics, some kinds of plastic, wax, fruits and vegetables, and other materials that absorb or release moisture (hygroscopic materials). By levelling out the air conditions of your rooms, you can be sure that the size and quality of your wood will be the same throughout the whole production process. You will get better results, reduce waste and improve workability. With our Nebbiasecca® products we can offer you the solution, and your wood will keep its characteristics and its shape unchanged.

We can ensure a correct and constant level of humidity.

**Suspended particulate waste:** Nebbiasecca® microdrops can cut dust particles down -- as they absorb moisture, they get heavier and fall to the ground. This way we can prevent them from flying and spreading in your work environments. Besides, if your products get conditioned before processing, dust particles may not be generated at all.

**Contamination between production lines in one department**

In one work area there are two production lines with two different products or materials. In the textile industry, for example, identical machines can process white or black yarns, so dust from one production line must be prevented from tainting materials in the next production line. The same can happen with flour or cereals processing.

Dry air in winter increases the level of dust in the air. With a correct humidification system, you can improve the quality of indoor air by reducing the concentration of suspended particulate matter.

**Odour suppression:** Articles published regularly in newspapers from the most polluted Italian cities often welcome a weather event that radically changes the air quality and puts an end to annoying, and hardly useful, smog traffic stops. Rain, sometimes tedious, is hailed as a panacea. It is established that asthma, cardio-pulmonary conditions and decreased lung functions are related to pollution by fine dust. While the coarser and heavier particles such as PM 7, PM 10 and TSP settle quickly, finer dust particles such as PM 2.5 or PM 1 will hang in the air for a longer time. So, welcome rain that washes the air clean. This natural principle is used by humidifying systems designed and built by Mendizza s.r.l., and is applied in all cases where suspended particulate matter and odours are a problem. ECOpack micronization systems are aimed at increasing health protection for workers and residents. On the other hand, in some production processes, such systems are required at a technical level, as dust could seriously reduce equipment performance and finished product quality. The system consists of a series of special nozzles that turn water driven by a pump at 70-100 bars into tiny Nebbiafresca® drops, few microns in diameter. This thin barrier acts as a real and effective filter. It captures fine particles and weighs them down to the ground but, unlike the rain, it does not wet the surroundings. Together with water, this system can diffuse products. Products that trigger a chemical odour molecule fragmentation process, resulting in immediate suppression of bad odours. ECOPACK systems are easy to install, can be integrated in any processing



plant and do not require large investments. Water consumption is lower than with other systems, as nozzle operation is controlled by processing units or timers according to set parameters. Mendizza s.r.l. can offer qualified assistance in the development of new system projects or system modification projects, aimed at improving working conditions in: industrial production, waste disposal, collected material sorting and recycling, carpentry, paper mills, painting shops, loading and unloading of dusty materials (earth, ore), crushing machines, etc.

**Air quality:** Proper humidification can cut down suspended particulate matter and improve breathing for people spending long hours indoors, thus reducing the risk of upper airways disease.

**Reduction of temperature:** A significant improvement of temperature and humidity conditions in indoor workplaces can be achieved simply by installing one or more fans with special nozzles that can micronize water to tiny droplets a few microns in size. Rapid evaporation of water and the air current cause a sudden drop in temperature in the area, with improved well-being for people. One or more fans on the opposite side to the humidifiers will blow off warmer air preventing excessively hot and damp air from hanging about.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** General distributor/importer

## Menorifiuti Srl

Page: **316**

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www	www.menorifiuti.it	
Organisation Type	Company	

### Contact Person

Name	<b>Stefano Mucciarella</b>
Position	CEO

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Offer/Request
» Waste collection	Technical Co-operation	» Offer
» Waste storage and transport	Technological Co-operation	» Offer/Request
» Waste treatment - plants and technologies	Joint research project	» Offer/Request
» Waste selection and recycling	Manufacturing agreement	» Offer/Request
	Commercial agreement	» Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Menorifiuti has arisen from the partnership between seasoned professionals in sustainable waste management, economic/administrative consulting, communications and marketing, who decided to share their qualified experiences and professional knowledge to help reduce human impact upon the environment.

Menorifiuti team consists of engineers, biologists, economists, experts in marketing communications, specialized journalists. The company focuses its efforts on:

- planning practices to reduce wastes and increase savings;
- promoting environmental sustainability at all levels.

The projects and planning systems conceived by Menorifiuti help reduce costs and at the same time achieve the maximum efficiency and effectiveness of services, making them more environmentally friendly and sustainable. Menorifiuti provides customer care and support in all phases of start-up and services management, from developing to drawing up technical specifications, from operational planning to communication campaigns, offering customized solutions to meet every kind of requirements.

Menorifiuti has gained experience and appreciation all over Italy, with:

- more than 3 million people involved in curbside collection programs;
- more than 80 Italian Towns involved in collection;
- more than 30 projects realized each year;
- more than 40 publications on National and International Reviews.

All this makes Menorifiuti a national leader in consulting and designing services of waste collection and related activities for both the public and the private sector.



#### FIELD OF ACTIVITIES:

Menorifiuti places its expertise at the disposal of local authorities, private and public companies, offering a wide range of services:

- ideation of new waste sorting and curbside waste collection systems
- advice on technical specifications and operational plans
- communication & marketing
- project management
- design of disposal facilities and waste treatment facilities
- design of ecological stations
- implementation of new tariff system organizations
- training courses, conferences and events on environmental matters

#### MAIN PRODUCTS/SERVICES:

##### Waste reduction:

- Innovative programs of waste reduction
- Collection projects designed for the re-use of waste

##### Waste sorting services:

- Planning and reorganization of collection systems
- Technical and operational start-up services

##### Sorting, processing and recovery:

- Design, construction and management of disposal facilities, storage, composting, digestion and recovery of municipal waste, special and special hazardous waste
- Planning of equipped ecological stations

##### Full technical assistance:

- Consulting and brokerage for disposal and waste recovery
- Implementation and optimization of new tariff systems
- Business Plans development
- Project Management

##### Research & Development:

- Innovative solutions for energy saving and the use of renewable
- Territorial Surveys
- Innovative collection systems designed to re-use waste
- Research and planning on environmental resources

##### Communication & Marketing:

- Communication strategies
- Media Planning
- Information and Awareness Campaigns
- Copy Writing and Creativity
- Editorial Projects and Specialized Publications
- Media Relations
- Press Office (press conferences, press releases, reviews)
- Customer Satisfaction, Monitoring and Redemption
- Training Courses
- Special Events





**Services - Cooperate to increase levels of recycling through innovative strategies and technologies. We project waste solutions as for collection services, comm**

**DETAILED DESCRIPTION:**

Menorifiuti conducts ongoing research in the management of waste and their disposal, analyzing the national and international best practices and developing new ideas and future trends in innovation management services and waste disposal:

- innovative collection systems designed to re-use waste;
- innovative ways to encourage users to collection;
- innovative solutions for energy saving and the use of renewable.

Thanks to the expertise of its technicians, Menorifiuti is able to carry out research and analysis on global and local level, to investigate specific issues, to analyze the new tools offered by the market and to offer innovative technology and new methods for solving problems.

**MAIN ADVANTADGES / BENEFITS:**

In all its projects, Menorifiuti gives top priority to efficiency and savings, ensuring its customers:

- environmental sustainability, with the achievement of high environmental performances (recycling rates higher than 50-60 per cent, reduction and reuse, innovative solutions to rationalize resources);
- economic sustainability, through the optimization of the operating costs of new services, while maintaining the costs for users unchanged.

The projects and planning systems conceived by Menorifiuti help reduce costs and at the same time achieve the maximum efficiency and effectiveness of services, making them more environmentally friendly and sustainable.

**TECHNICAL SPECIFICATIONS:**

Menorifiuti guarantees all stages of setting up projects and activating collection services:

- testing of the plant system available for waste collection
- dimensional calibration of equipment through territorial surveys
- assistance and control on Public Health Services management

Waste reduction:

- Innovative programs of waste reduction
- Collection projects designed for the re-use of waste

Waste sorting services:

- Planning and reorganization of collection systems
- Technical and operational start-up services

Sorting, processing and recovery:

- Design, construction and management of disposal facilities, storage, composting, digestion and recovery of municipal waste, special and special hazardous waste
- Planning of equipped ecological stations

Full technical assistance:

- Consulting and brokerage for disposal and waste recovery
- Implementation and optimization of new tariff systems
- Business Plans development

Research & Development:

- Innovative solutions for energy saving and the use of renewable
- Territorial Surveys
- Innovative collection systems designed to re-use waste

- Research and planning on environmental resources

**OR QUALIFICATION OF POTENTIAL PARTNER:** Local Authorities, Municipalities, Private and Public Companies engaged in collection and waste treatment , Universitie

## Monachino Technology

Page: **319**

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Email	mose.monachino@libero.it	
www	www.monachinotechnology.com	
Organisation Type	Other	

### Contact Person

Name	<b>Mosè Monachino</b>
Position	Technical Manager

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	» Offer
» Waste selection and recycling	Technical Co-operation	» Offer/Request
» Solar energy	Technological Co-operation	»
» Heating equipments	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The company is very experienced in the field of precast building and in the design of equipments and machineries in the same field. In these last years has applied its knowledge and professionalism to propose solution for energy saving to be applied in the construction sector.

Most of the products/technologies have been granted a patent.

#### FIELD OF ACTIVITIES:

Building and Eco-building

#### MAIN PRODUCTS/SERVICES:

Precast mini-plant with both standard and bi-functional photovoltaic panels

Equipments and machineries for building sector

Precast elements (Precast retaining wall , Shoulder bridge - pier artificial Gallery, Prefabricated tunnel anti-seismic, Double panel type sandwich (double plate), Noise barrier).

### **Manufacturing - Precast mini-plant with both standard and bi-functional photovoltaic panels**

#### DETAILED DESCRIPTION:

An Italian inventor has developed an innovative system for prefabricated photovoltaic mini-plants with standard

or bifunctional panels. The plant is preassembled in factory. The innovation of the proposed system consists of precast concrete structure of the photovoltaic (PV) mini-plant and type of photovoltaic panel installed. The support consists of a prefabricated selfbearing concrete slab, that can be used as a floor and easy installed on any ground. Since the prefabricated structure does not require building concession nor a building yard, this leads to assembly time and cost saving. The size is 2.5 m x 6.00 m for a 3 kW. Normally, installing a PV power plant it requires a flat or pitched roof as support or ground. For the proposed system is sufficient to set the mobile plant on the ground or on a flat roof without any infrastructure. The PV mini-plant can be realized using both standard solar panel and an innovative more functional dual panel that produces electricity and hot air at the same time. The PV mini-plant with this type of panel has greater durability and an higher yield because, a greater production of electricity can be obtained due to the cooling effect of the cells and hot air that can be used to heat various utilities to serve. The inventor is interested in companies, and precast concrete companies, universities and research centers for patent transfer. The transfer will be done by ensuring all the needed assistance and advice.

**MAIN ADVANTADGES / BENEFITS:**

Lower installation cost due to ease of process.

Lower production cost (the concrete structure is precast).

Greater guarantee of durability if the panel is the bifunctional one.

Greater production of electricity, if the bifunctional panel is used, due to cells cooling, and if compared to same size products already on the market.

Production of hot air for every heating utility.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

A precast concrete structure for the PV mini-plant: size 2.5 m x 6.00 m for a 3kw

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Company or industries in precast concrete sector and/or universities and research centers for patent transfer.

**Manufacturing - Eco-recycler and manufacturer of filler - Patent transfer agreement and technical co-operation**

**DETAILED DESCRIPTION:**

An Italian invenor has patented an equipment to process waste from stone industry (mining and processing) and from concrete production and prefabrication plants.

In this kind of industries, processing waste are hazardous and their disposal represents a significant cost of the production process. Through the creation of the proposed plant, scraps are transformed into filler of 0.75 micron that can be used for the production of special concretes and for varnish. The fillers that are generated are quite different from those currently used that derive from the fragmentation and aspiration of: calcium carbonate, blast furnace slag and waste of burned coal, products and processing highly harmful to the health of workers and the environment.

The proposed innovative system is also capable of automatically re-enter in the production cycle, all waste, waste production and waste from washing of concrete production and prefabrication plants, transforming inert waste into filler (high-quality product suitable for production of concrete (self-compacting concrete SCC)). The system works using water also that used during the washing phase in the industrial process for concrete or stone. It avoids powder creation. The inventor is interested in companies for license agreement with patent transfer.

**MAIN ADVANTADGES / BENEFITS:**

elimination of disposal costs with the production of new material (filler) which produces valuable revenue;



elimination of hazardous waste (sawmill waste water, processing waste, grinding waste, removal waste);  
usage of oil used for formworks;  
elimination of fine particles in the atmosphere;  
the development of a new process for the automatic transformation of waste into raw materials to low industrial costs;  
special fillers for concrete have a growing market for unmet demand in the area of self compacting concrete (SCC).

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

the produced filler is of 0.75 micron;  
the system works using water, avoiding powder creation;  
patent granted – Country: Italy.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Company or industry in the field of industrial equipment and machinery interested in a licence/patent agreement. The transfer will be done by ensuring all the needed assistance and advice.

## N.C.S. nanocoating systems

Page: **322**

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Email	umbertobino@nanocoating.it	
www	www.nanocoating.it	
Organisation Type	Company	

### Contact Person

Name	<b>Umberto Bino</b>
Position	Founder

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	»
» Waste selection and recycling	Technical Co-operation	» Offer
» Eco-design and eco-compatible materials	Technological Co-operation	»
» Treatment of wastewater and water for domestic consumptions	Joint research project	»
» Other	Manufacturing agreement	»
» Building materials	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** N.C.S. is a company where different experiences merged together and have been working during the last 30 years in the building sector offering different services and putting together their competencies for the safeguard of cultural heritage.

**FIELD OF ACTIVITIES:** The company is specialized in furnishing services and nanotech products for the realization of coatings with high anti-bacterial and antismog activity, anti-odor treatments and air cleaning services environmental friendly.

**MAIN PRODUCTS/SERVICES:** air treatments, coating techniques.

**TECHNOLOGIES:** ultrasonic sieve.

### Supplier - OFFER OF PROTECTIVE COATINGS BASED ON NANO-MATERIALS

**DETAILED DESCRIPTION:** The company is specialized in the production of renewed protective coatings based on nano-technologies, thought for surface treatments and air cleaning techniques.

The company also offers coating solutions for pollutant's emissions reduction (ex. VOCs – Volatile Organic Compounds), improvement of mechanical surface characteristics (anti-scratch properties), with a protective anti-dirt and anti-bacterial action, and hygiene treatment.

The company is able to provide materials based on nano-technologies, such as titanium, silver and colloidal silica





aimed at surface protection. Disposals created and used for the same aims are also available.

MAIN ADVANTADGES / BENEFITS: pollutants emission reduction, surface protection.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): The company can deliver a service of analysis and realization of composite nano-materials for customized applications. Among innovations the company offers new mixture techniques of active ingredients with different matrix nature (inert matrix), with reference to the ultrasonic sieve, available for clients.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Companies

### Distribution - ALGAE DECOMPOSITION KET TECHNOLOGY

DETAILED DESCRIPTION:

BASIC THEORY OF KET DECOMPOSITION MECHANISM

Vegetation such as algae and grass contain much cellulose and hemicellulose which are not easily and quickly decomposed under normal conditions. Cellulose consists of mass of mono sacchaoids (dextrose, fructose, etc.,) with oxygen as coordinating hands. By removing these coordinating hands (oxygen), cellulose is rapidly decomposed.

KET ferrous catalytic agent, through ionic function of Fe, removes oxygen from water, releases hydrogen ion H<sup>+</sup>, takes in oxygen from coordinating hands and thereby decomposes cellulose. The speed of the decomposition is further accelerated by the reaction of Fe ion Fe<sup>2+</sup> Fe<sup>3+</sup>. Deodorization takes place at the same time by the freed oxygen, contributing to efficient decomposition.

Organic substances decomposed to inorganic matter are electrically adsorbed to the surface of clay particles

MAIN ADVANTADGES / BENEFITS: The technology is intended for algae decomposition acceleration and is independent from salt presence.

The E in the name of the technology is intended for Earth, Ecology, Economy, Efficiency, Energy, Environment and Equilibrium

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): Flow of the treatment

Day n° 1 Algae weed + volcanic ash soll, + sprinkeing Ket E 35

Day n° 7 sprinkeing water ( turn and mix well )

Day n°14 sprinkeing water ( turn and mix well )

Day n° 21 sprinkeing water ( turn and mix well )

Treatment is completed in 22 days

The end product is ready for immediate utilization, it will be called algae nutrisoil hereinafter.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Companies dealing with algae treatments, municipalities, or other partners involved in environmental industry and environment friendly products based on algae.





## NC Design

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Address	Via Ferrari, 25 86100 - Campobasso	<b>Italy</b>
Phone	+39 0874 411064	
Email	info@ncdesign.it	
www	www.ncdesign.it; <a href="http://ncdesign.it/nc_design.php">http://ncdesign.it/nc_design.php</a>	
Organisation Type	Company	

### Contact Person

Name	<b>Engineer Nicola d'Ancona</b>
Position	Manager

Areas of activity	Type of co-operation
» Biomass, bio-gas	Licence agreement »
» Solar energy	Technical Co-operation » Offer
» Water energy	Technological Co-operation »
» Energy saving and efficiency	Joint research project »
	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

the firm was established in 2000 in the Molise District thank to the experience of the two owners Mr Nicola d'Antona (engineer) and Ms Caterina Di Iorio (Architect). During the years, because the growth of the activity, the firm enlarges the staff with different experts and high qualified collaborators. At now the firm has 5 internal collaborators and one external over the two owners.

#### FIELD OF ACTIVITIES:

Planning of plants for the alternative energies

#### MAIN PRODUCTS/SERVICES:

##### Planning of:

- plants feeded by renewable sources;
- plants for biomass ;
- plants using vegetable oils;
- photovoltaic plants;
- solar-thermal plants;
- micro hydroelectric plants;
- biogas plants;



- industrial plants;
- building renovation by the use of techniques safeguarding the environment and energy efficiency improvement
- naturalistic engineering works

### Consulting - To find partners to which offer our services

#### DETAILED DESCRIPTION:

The firm aims to meet and find partners operating in its sectors of interest to offer them planning services regarding: the construction of plants feeded by renewable sources , building renovation by the use of techniques safeguarding the environment and energy efficiency improvement, naturalistic engineering works

#### MAIN ADVANTADGES / BENEFITS:

The firm offers a great experience in its fields and a high professionalism and affidabiliyu

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Planning of: plants feeded by renewable sources , building renovation by the use of techniques safeguarding the environment and energy efficiency improvement, naturalistic engineering works

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

producers and/or installers of plants feeded by renewable sources

We look for collaborations with other planning firms that would be complementary to our services  
experts in environmental engineer works



## NESTAMBIENTE S.R.L. GRUPPO ACEGAS-APS

Page: 326

Address	Corso Stati Uniti n. 5/A 35127 - Padova	Italy
Phone	0497921308	
Email	globalservice@nestambiente.it	
www	www.nestambiente.it	
Organisation Type	Company	

### Contact Person

Name	<b>Ilaria Bonaldo Gregori</b>
Position	Sales

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste collection	Technical Co-operation » Request
» Waste storage and transport	Technological Co-operation »
» Waste treatment - plants and technologies	Joint research project »
» Waste selection and recycling	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement »

### Short description of company

Nestambiente Srl belongs to Acegas-Aps Group, that is currently the most important multi-utility company in North-Eastern Italy. AcegasAps was formed on 19th December 2003 by merging the two municipal companies Acegas and Aps; the group is active in the management and distribution of water, electricity and gas, in the collection and treatment of waste as well as in the main municipal services, particularly, in the two areas of Trieste and Padova.

Acegas-Aps entrusted Nestambiente the following activities:

- collecting and storage of dangerous/not dangerous special waste
- waste brokerage
- remediation of contaminated sites
- removal of asbestos coverings

### Services - Looking for new European partners for the recovery/disposal of special waste

Nestambiente works within a national ambit.

Besides, Nestambiente allied itself with foreign partners for the managing of dangerous/not dangerous special waste so to reach waste quantities in order to allow more favourable accesses to disposal/recovery plants and can boast various sole contracts with foreign plants. More specifically the agreement expects some important synergies further to the operative stages of collecting, transport, recovery and final disposal of waste.

Nestambiente is going to participate to Eco Business Cooperation Event with the precise aim to look for new European partners in order to find disposal/recovery plants and so new arrangements for the waste

## NEW CONTACT SRL

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Address	Via Giulio Cesare, 146 80125 - Napoli	<b>Italy</b>
Phone	+39 08119720271	
Email	info@netcontact.it	
www	www.netcontact.it	
Organisation Type	Company	

### Contact Person

Name	<b>Vittorio Trotta</b>
Position	General Manager

Areas of activity	Type of co-operation	
» Treatment and disposal of the resultant sludge	Licence agreement	»
» Cooling and ventilation equipment	Technical Co-operation	»
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Technological Co-operation	» Offer/Request
» Sustainable mobility electric vehicles	Joint research project	»
» Solar energy	Manufacturing agreement	»
» Geothermal energy	Commercial agreement	» Request
» Energy saving and efficiency	Financial agreement	»
» Thermal disposals		
» Energy conversion		
» Building materials		
» Heating equipments		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

### Consulting - Looking for commercial agreements

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## Newster Srl

Page: **328**

Address	Via Montalbano 1377/V 47842 - San Giovanni in Marignano	<b>Italy</b>
Phone	+378 0549 960576	
Email	market@newster.sm	
www	www.newster.sm	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Pier Luigi Bascucci</b>
Position	General Manager

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste treatment - plants and technologies	Technical Co-operation »
» Treatment of wastewater and water for domestic consumptions	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Company Newster Srl was established in 1996. Headquarters are situated in Via Montalbano, 1377/V San Giovanni in Marignano, province of Rimini, in Italy. Newster Srl is a leading European company that designs, produces and services compact systems for the treatment and sterilization of potentially infectious hospital waste, under the Newster® trademark, as well as other products, including plants for the treatment and disinfection of potentially infectious wastewater originating from infectious diseases hospital wards.

Newster's technological partner is Tecno Service First Srl in Serravalle in the Republic of San Marino, which deals with research, development and continual renewal of the technology in the field of ecological hospital services. Newster Srl has manufactured more than 300 systems and has subsidiaries and affiliates that market and service products in many countries world wide:

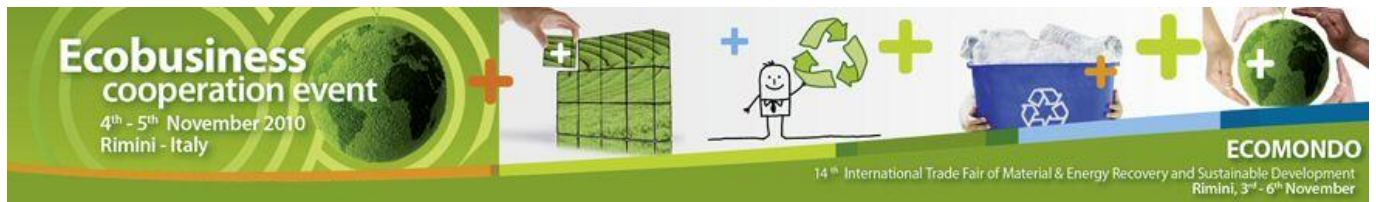
Belarus Brazil Bulgaria Croatia Dominican Republic Egypt Estonia Greece Hungary Iran Italy Kazakhstan Paraguay Poland Romania Russian Federation Tunis Uruguay

#### FIELD OF ACTIVITIES:

- Sterilization of potentially infectious healthcare waste
- Treatment and sterilization of potentially infectious sewage water
- Treatment of laboratory chemical spills

#### MAIN PRODUCTS/SERVICES:

Health care waste sterilization system "Newster 10" and Newster 5 for the sterilization of potentially infectious hospital waste. The Newster 10 machine is aimed to public and private hospital facilities, waste disposal facilities,



institutes for zoonophylaxis and clinical diagnostics.

Water treatment plant “SWT – Safe Water Treatment”– System for the disinfection of hospital waste water. It has been specifically designed for mechanical pre-treatment and final treatment of waste water deriving from infectious-disease hospital wards. The plant is based on an innovative process that, uses a special macerator, to dispel all organic material and eventually cuts all other materials present in waste water. SWT system is aimed at public and private hospital facilities.

Chemical spills neutralizer - PURA — System for the treatment and neutralization of laboratory chemical spills.

**Distribution - We are looking for a well structured company for the distribution of our technology on his territory which is possibly well connected to various health**

**DETAILED DESCRIPTION:**

As manufacturer of technology for the treatment and sterilization of potentially infectious medical waste and of technology for the treatment and sterilization of potentially infectious waste water originating from infective diseases hospital wards, we are searching for a distributor in different countries.

**MAIN ADVANTADGES / BENEFITS:**

Our technology allows reduction of costs on medical waste treatment and disposal. Reduction of potentially infectious diseases spreading due to treatment and sterilization of waste on site, thus avoiding transport of the waste to external dedicated waste treatment facilities. Improvement of knowledge and greater awareness of the hospital staff on the correct management of medical waste in hospitals, resulting in major efficiency and cost-saving.

**TECHNICAL SPECIFICATIONS (The compilation of this field it’s strongly suggested):**

Newster technology for medical waste treatment is based on thermal sterilization. The treated waste, dehydrated, reduced of volume (approximately 75 %) and weight (25/40 % in function of the humidity contained in the waste before treatment ) results unrecognizable and sterile. Our machines have a capacity of waste treatment of up to 15 kg of per cycle (with humidity 10%), with a duration of approximately 30 minutes for each sterilization cycle. Details and ttechnical specifications of our machines can be downloaded from our web-site [www.newster.sm](http://www.newster.sm)

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

The ideal partner should be a well-structured company, involved in the supply of medical waste treatment equipment to private and/or public hospitals, clinics and healthcare structures in general. The distributor should have the necessary structure to guarantee technical assistance and after sales service, where required. Specific technical training programs of the after sales service staff will be carried out by Newster Srl.



## Nex srl

Page: **330**

Address	via Pasolini, 23 41123 - Modena	<b>Italy</b>
Phone	3488090962	
Email	marchimg@gmail.com	
www	www.nex.mo.it	
Organisation Type	Company	

### Contact Person

Name	<b>Maria Grazia Marchi</b>
Position	Managing Director

Areas of activity	Type of co-operation
» Eco-design and eco-compatible materials	Licence agreement »
» Solar energy	Technical Co-operation » Offer/Request
» Building materials	Technological Co-operation » Offer/Request
	Joint research project » Offer/Request
	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement » Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Nex srl is a new company specialized in the health sector and able to supply turn-key solutions and implement health structures of different kind and at different technological level: from the consulting rooms to the nuclear medicine laboratories.

Nex srl origins from the experience of two companies having a 30 year experience in the field of constructions and mechanics, in addition to a competence in the health world coming from the work carried out in the health sector from both of them. Nex srl can offer a great design, technical and operative capacity, thanks to the companies forming it.

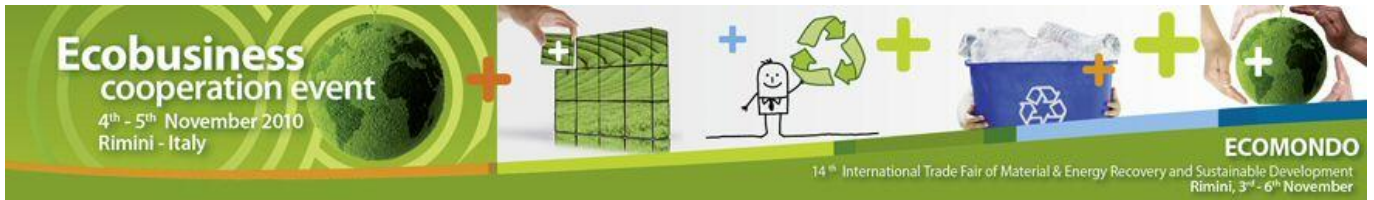
Through the modular system that sees the use of enlargeable iso standard modules and a special connection element it is possible to implement complex structures, such as hospital wards that can be set in any environmental and geographical condition.

With this system a new kind of health environment has been implemented at the Modena General Hospital, able to meet all the necessary requirements for cellular manipulation: the cryobiology laboratory. Nex has implemented a NAT laboratory and has just finished a depot for histological material.

The essential element of Nex's offer is represented by the health module, a highly innovative solution licensed at European level.

#### FIELD OF ACTIVITIES:

Hospitals, health system, constructions, photovoltaic plants.



**MAIN PRODUCTS/SERVICES:**

Research, design, layout, building of hospitals, creation of buildings with low or high technological content (laboratories, dialysis centers, GMP laboratories, nuclear medicine laboratories, operating rooms).  
 Adaptation of specialized and high technology areas to keep up with the required standards.  
 The companies that form Nex also deal in the field of constructions and photovoltaic plants

**TECHNOLOGIES:**

The health modular structure is formed by two basic elements: the technical module and the connecting element.  
 Nex's modules are implemented with a modular system using high technology materials. They are easily enlargeable, stackable, in order to implement any kind of environment, transportable according to ISO standards and fit to be set in any bioclimatic condition, given the extreme customization of the components.  
 Technical module: it includes rooms, consulting rooms, service spaces.  
 Connecting element: it connects the technical modules to each other or to the existing buildings.  
 Both the external wrapping and the internal shell are totally customizable, in order to adjust to the aesthetical, environmental and technological requirements of the specific use classification, as well as it is possible to install only the internal shell to coat existing walls.  
 Between the external layer and the double wall there is therefore a cavity having the double function of isolating and hosting plants.

**Consulting - High- and low-technology health center implemented according to eco-compatibility and using alternative or renewable energy sources.**

**DETAILED DESCRIPTION:**

In collaboration with companies specialized in designing and producing eco-compatible, high performance materials, Nex intends to develop prefabricated health structures to be set also in extreme climate conditions, by using alternative or renewable energy production systems too.

**MAIN ADVANTADGES / BENEFITS:**

Put on the market a high performance product able to provide a real energy saving and which could be as much as possible independent from the energy point of view.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

It is therefore necessary to design and implement a modular system with materials apt to this aim.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Suppliers, manufacturer of insulation materials, photovoltaic panels, designers and manufacturers of plants and systems for the production of alternative or renewable energy; trade collaborations, joint ventures to promote the package in Italy and abroad.

## NGB Genetics

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Address	via Borsari 46 44100 - Ferrara	<b>Italy</b>
Phone	3299508266	
Email	v.lucchini@ngbgenetics.com	
www	www.ngbgenetics.com	
Organisation Type	Company	

### Contact Person

Name	<b>Vittorio Lucchini</b>
Position	President

Areas of activity	Type of co-operation														
» Other	<table border="0"> <tr> <td>Licence agreement</td> <td>»</td> </tr> <tr> <td>Technical Co-operation</td> <td>» Offer</td> </tr> <tr> <td>Technological Co-operation</td> <td>»</td> </tr> <tr> <td>Joint research project</td> <td>» Offer</td> </tr> <tr> <td>Manufacturing agreement</td> <td>»</td> </tr> <tr> <td>Commercial agreement</td> <td>» Request</td> </tr> <tr> <td>Financial agreement</td> <td>»</td> </tr> </table>	Licence agreement	»	Technical Co-operation	» Offer	Technological Co-operation	»	Joint research project	» Offer	Manufacturing agreement	»	Commercial agreement	» Request	Financial agreement	»
Licence agreement	»														
Technical Co-operation	» Offer														
Technological Co-operation	»														
Joint research project	» Offer														
Manufacturing agreement	»														
Commercial agreement	» Request														
Financial agreement	»														

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Spin off of the University of Ferrara. Molecular biology and genetics analysis

FIELD OF ACTIVITIES: Conservation genetics for Wildlife Biodiversity Conservation

MAIN PRODUCTS/SERVICES: Product: Kit for species identifications and Software for genetic variability analysis

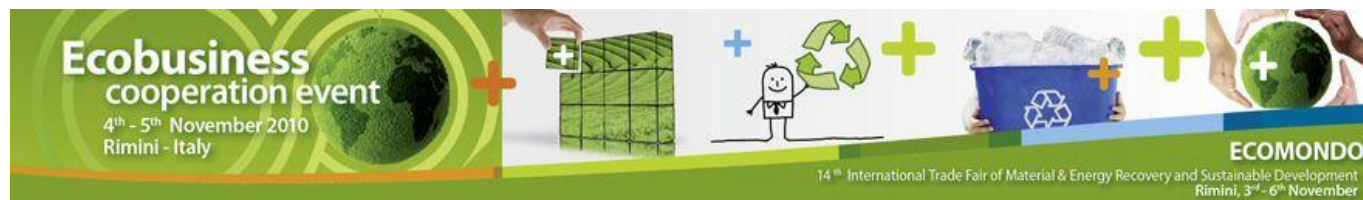
Services: conservation genetics projects, hybrids identifications, Wildlife forensic DNA analysis

### Services - Species Identification kits based on molecular markers and software platform for Wildlife management

DETAILED DESCRIPTION: Species Identification kits based on molecular markers and software platform for Wildlife management

MAIN ADVANTADGES / BENEFITS: To have a management tool to identify priorities in biodiversity conservation programs and to optimize costs in conservation studies for the public administrations.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): Molecular markers, Software  
TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Commercial, Public administration interested in Biodiversity conservation programs



## Nial Nizzoli srl

Page: **333**

Address	v. Fosdondo 48 42015 - Correggio	<b>Italy</b>
Phone	0522637575	
Email	emilio.guidetti@nialnizzoli.com	
www	www.nialnizzoli.com	
Organisation Type	Company	

### Contact Person

Name	<b>Emilio Guidetti</b>
Position	

Areas of activity	Type of co-operation
» Waste management	Licence agreement
» Waste selection and recycling	Technical Co-operation
» End products made with salvaged material	Technological Co-operation
» Solar energy	Joint research project
	Manufacturing agreement
	Commercial agreement
	Financial agreement

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

We are collecting and recycling materials from waste until the 19996. Nial Nizzoli operates in the field of transports and waste storage (especially R.A.E.E.), asbestos's remediation and photovoltaic systems. From the 2005 is operating the Centre for the recovery of inert waste like ash, foundry sand, sludge process and glass (from bottle and tv).

#### FIELD OF ACTIVITIES:

Remediation of land contaminated by hydrocarbons  
Logistic and transports of waste  
Waste recycling

#### MAIN PRODUCTS/SERVICES:

Environmental services

#### TECHNOLOGIES:

Mechanical treatment of waste



**Services - Technical cooperation to improve the recovery of materials from waste and carry out complex projects for renewable energy production**

**DETAILED DESCRIPTION:**

Technical cooperation to improve the recovery of materials from waste and carry out complex projects for renewable energy production

**MAIN ADVANTADGES / BENEFITS:**

Technical capacities

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

40'000m2 of work area to recovery waste. Examples of complex project realized with renewable energy solutions.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Univeristy, Laboratory, company



## O.C.M. s.r.l

Page: 335

Address	Via S.Barbara, 135 48010 - Fusignano (RA)	<b>Italy</b>
Phone	+39-0545-50230	
Email	info@ocmsrl.com	
www	www.ocmsrl.com	
Organisation Type	Company	

### Contact Person

Name	<b>Dario Vaccari</b>
Position	sales manager

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	»
	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

OCM has been active since 1963 on the market of pollution control equipment and processing of stainless steel in general. OCM exports 70% of his production

FIELD OF ACTIVITIES: Waste water treatment. OCM manufactures machines for mechanical dewatering of various type of sludge from municipalities, industries, paper mills, tanneries, distilleries, wood industries, steel mills, quarries, chemical industries

#### MAIN PRODUCTS/SERVICES:

We can offer the whole line for dehydration hall, like:

Belt filter presses, belt thickeners, drum thickeners, polyelectrolite dissolving and dosing stations, conveyors for dewatered sludge, static sludge mixers, sludge pumps.

### Distribution - Waste water equipment and treatment

We are looking for Distributors, Representatives, or Agents that already work on dewatering field

MAIN ADVANTADGES / BENEFITS: We can offer strong experience in the field, large range of machine versions to satisfy different requirements, good prices, good performance ratio, flexibility, and continuous technological improvement.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: knowledge of dewatering field and.



## Officine di Trevi

Page: **336**

Address	S.S. Flaminia Km 145 06032 - Trevi	<b>Italy</b>
Phone	+39 0742 381616	
Email	info@officineditrevi.com	
www	www.officineditrevi.com	
Organisation Type	Company	

### Contact Person

Name	<b>Andrea Fioretti</b>
Position	Manager

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Treatment of wastewater and water for domestic consumptions	Technical Co-operation »
» Other	Technological Co-operation »
» Biomass, bio-gas	Joint research project »
» Water energy	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** Officine di Trevi company was founded in 1968 as a craft business and it is specialized in the production of electric submersible pumps with OFT trademark. Since its establishment, more than 40 years ago, our firm has seen a steady growth

**FIELD OF ACTIVITIES:** The firm works in Italy and in more than 20 foreign countries and meets different requirements of agricultural, domestic, civil and industrial sector

**MAIN PRODUCTS/SERVICES:** Nowadays OFT brand includes a wide choice of electric submersible pumps ranging From 4", 5" and 6" pumps, also with hydraulic parts in stainless steel, to monoblock pumps, last generation pressure plants, fire-fighting systems EN 12845 and Atex pumps.

**TECHNOLOGIES:** The whole production cycle is carried out within the factory with the support of technologically tools. The Research and Development department is constantly working on and realizing project which aim at the innovation of both productive processes and products.



### **Manufacturing - Research of future potential partners**

**DETAILED DESCRIPTION:** Pumps in conformity with ATEX Directives that may be used in potentially explosive atmosphere.

**MAIN ADVANTADGES / BENEFITS:** They guarantee absolute safety in terms of initiation of an explotion. For example the pumping of water and gas in landfill site

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):** Our products are the only one in Europe with ATEX CE 0722 Ex II 2G Ex s mb c II T5 certification and they can pump liquid up to a prevalence of 150 mt.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** technical and engineering offices, workmen who install or do the maintenance of landfill plants.

## OFFICINE MECCANICHE PARENTI SRL

Page: **338**

Address	VIA EMILIA 51/C 40011 - ANZOLA EMILIA	<b>Italy</b>
Phone	+39 051 732190	
Email	info@omparenti.com	
www	WWW.OMPARENTI.COM	
Organisation Type	Company	

### Contact Person

Name	<b>STEFANIA LUCA</b>
Position	EXPORT MANAGER

Areas of activity	Type of co-operation	
» Treatment of wastewater and water for domestic consumptions	Licence agreement	» Offer/Request
» Saving water in intensive industrial manufacturing	Technical Co-operation	» Offer/Request
» Techniques for the re-use of water	Technological Co-operation	» Offer/Request
» Treatment and disposal of the resultant sludge	Joint research project	» Offer/Request
» Sewage facilities	Manufacturing agreement	» Offer/Request
» Energy from waste and biomass	Commercial agreement	»
» Wastes processing and their utilization as secondary raw materials	Financial agreement	»
» Water energy		
» Geothermal energy		

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: After a long experience in manufacturing spare parts and FILTERS for dry cleaning machines, we have engaged our Company and fields of activities.

FIELD OF ACTIVITIES: manufacturing of filtering systems used in agriculture, industries and civil fields

MAIN PRODUCTS/SERVICES: filtering systems to save water/liquid- re-use of water and salvage material

TECHNOLOGIES: mechanical separation of solids from liquids

### Manufacturing - COOPERATE WITH COMPANIES IN ORDER TO CARRY OUT INNOVATIVE PROJECTS

DETAILED DESCRIPTION: filtration systems

MAIN ADVANTADGES / BENEFITS: saving-re-usage of water/liquids and salvage materials

TECHNICAL SPECIFICATIONS : filtration from 5 microns (upon request also from 1 micron) up to 500 microns.  
automatic waste drainage

## OROGEL Soc. Coop. Agricola

Page: 339

Address	Dismano 2830 47522 - Cesena	<b>Italy</b>
Phone	0547/3771	
Email	info@orogel.it	
www	www.orogel.it	
Organisation Type	Company	

### Contact Person

Name	<b>SILVER GIORGINI</b>
Position	Quality Manager & R&D

Areas of activity	Type of co-operation	
» Other Energy topics	Licence agreement	»
	Technical Co-operation	» Request
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	» Offer
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The OROGEL group is one of the leading producers in Italy, and the only organization of its kind that operates across the entire food industry, from fresh produce, to frozen products, to preserves. In terms of size and turnover, with 219,000 tons of products on the market, it is the leader among completely Italian companies in the domestic frozen food segment. Product quality, rapid service, professionalism, and efficiency are some of the reasons why OROGEL has achieved a role of primary importance in the Italian frozen food market. Investments in facilities and in new technology are another important aspect of the OROGEL strategy, as a way of constantly improving on what are already top standards of quality.

#### FIELD OF ACTIVITIES:

- R&D , processing, freezing and packing of vegetable and fruit products, single products and mixes, ready meals also with fish and meat.
- R&D, and processing of jams, fruit compote, fruit jelly, fruit and vegetables chutney
- Marketing of frozen food under own label , private label and producers brand.
- Production, packing and marketing of fresh fruit and vegetables.

#### MAIN PRODUCTS/SERVICES:

Orogel offers a wide range of products for Retail, Food Service and Industry; great attention is paid to all the steps in the production chain, from the constant monitoring of crops from sowing to harvesting and down to the



attention during processing and to final distribution.

- Frozen Products Division: Plain vegetables and mixes, Ready meals with fish and meat, Ice cream, Fish
- Fruit Jam Division : Jams, fruit jellies, fruit and vegetable chutneys and an exclusive line of VIRTU di FRUTTA made with fruit and officinal herbs with no added sugar.
- Fresh Products Division: Fresh Fruit and Vegetables

TECHNOLOGIES: Use of the most advanced technologies applicable to the sector

### **Distribution - Technological innovations to enhance waste and by-products**

DETAILED DESCRIPTION:

- Research for innovative technologies that allow the exploitation of waste material and by-products resulting from industrial processing during the various production stages.
- Define a program for the re-use of organic waste to produce alternative energy

MAIN ADVANTADGES / BENEFITS:

- Adequate management of the industrial waste will benefit the environment
- Exploiting waste, transforming the cost into earnings

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

Companies, Universities, Research Institutes that can offer practical and workable solutions for the recovery of food waste.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Experience in Food



## P.A.N Piante Acqua Natura srl

Page: **341**

Address	Via della Croce Rossa, 112 35129 - Padova	<b>Italy</b>
Phone	3404514150	
Email	info@panspinoff.com	
www	www.panspinoff.com	
Organisation Type	Company	

### Contact Person

Name	<b>Michela Salvato</b>
Position	Administrator

Areas of activity	Type of co-operation	
» Eco-design and eco-compatible materials	Licence agreement	»
» Treatment of wastewater and water for domestic consumptions	Technical Co-operation	» Offer/Request
» Saving water in intensive industrial manufacturing	Technological Co-operation	»
» Techniques for the re-use of water	Joint research project	»
» Other	Manufacturing agreement	»
» Biomass, bio-gas	Commercial agreement	» Request
» Solar energy	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

P.A.N. is a spinoff of the University of Padova, Department of Environmental Agronomy, founded in 2006. The management team is composed of a full professor in Environmental Agronomy at Padua University, two PhD in environmental agronomy, a graduated in science of communication.

Water has emerged over the past ten years from being "just another utility service" that had difficulties in recovering its costs even if is a key part of the essential resources for human survival. It is necessary to increase investments in the traditional water purification techniques but also in natural, innovative and low cost techniques. We developed innovative solutions to treat water in a natural way and directly in the streams.

#### FIELD OF ACTIVITIES:

Natural waste water treatments, constructed wetlands

#### MAIN PRODUCTS/SERVICES:

P.A.N. designs and realizes constructed wetlands also using its patented floating element: Tech-IA system. P.A.N. is specialized in consulting about agro-environmental themes.

#### TECHNOLOGIES:

We patented and now we are selling a floating system that can be installed in river courses, lakes, channels and other water bodies both natural and constructed. This product allows the growing of plants that uptake dissolved nutrients and pollutants directly from the water and finally creates living ecosystems (wild fauna usually





colonizes it as nesting or feeding site and fishes and other water animals use root system for different purpose).

**Services - P.A.N. work in wastewater treatment with constructed wetland especially floating wetland. offers and requests Technical co-operation and requests also**

**DETAILED DESCRIPTION:**

We patented and now we are selling a floating system that can be installed in river courses, lakes, channels and other water bodies both natural and constructed. This product allows the growing of plants that uptake dissolved nutrients and pollutants directly from the water and finally creates living ecosystems (wild fauna usually colonizes it as nesting or feeding site and fishes and other water animals use root system for different purpose).

**MAIN ADVANTAGES / BENEFITS:**

Using our product you can treat waste water directly in the water body, you creates new ecosystems and save money.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The single self floating element of Tech-IA is realized in EVA (ethylen vinyl acetate), rectangular (45\*90 cm), with eight windows each of them with grids that allows to sustain the plants. His weight is about 2 kg and may support a weight of 20 kg. Two elements matched give one square meter of raft. The single elements can be easily linked each other and anchored to the river sides, his frame presents six holes allowing the connection among elements and to the benches. The elements can be easily installed in different designs to fit the shape of the water body and intercept the pollutant flow.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Company involved in traditional waste water treatments that want to improve their products and services with natural waste water technology: constructed wetlands.



## PA Service srl

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Address	Via dell'Adige 16 39040 - Cortaccia	<b>Italy</b>
Phone	+39 0471 068 800	
Email	michele.benvenuti@paservicesrl.com	
www	www.paservicesrl.com	
Organisation Type	Company	

### Contact Person

Name	<b>Michele Benvenuti</b>
Position	

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste storage and transport	Technical Co-operation	»
» Waste selection and recycling	Technological Co-operation	»
» Energy from waste and biomass	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

PA Service Is a Company based in the North of Italy and is specialized in export of industrial wastes.

For our Italian customers we offer global solutions for waste recycling and disposal.

Our services mainly consist in "finding a facility, organize all the documentation, all the administrative and contacts with the local authorities (including guarantees), and also the logistic.

Last year we have handled about 230.000 t of wastes on behalf of our customers (almost entirely shipped by truck/train to German facilities)

We also have recently opened a new "interim storage facility" directly into the harbor of Ravenna in Italy.

Purpose of this solution is offering to our customers the possibility to send the material directly to the facility from where it can be shipped by sea with a reduced charge for the freight costs.

#### FIELD OF ACTIVITIES:

Consulting, brokerage, logistic, interim storage, recycling

#### MAIN PRODUCTS/SERVICES:

Solutions for waste recycling and disposal in Europe

#### TECHNOLOGIES:

Our staff communicate with people in foreign countries in their mother language.

We have an interim storage facility in Cortaccia - Italy.



### **Export - We are looking for disposal and recycling facilities in foreign countries**

#### **DETAILED DESCRIPTION:**

We are looking for cooperation with recycling/disposal facilities in foreign countries. On the other hand, we can offer complete solutions for waste recycling/disposal for our customers suited in Italy.

#### **MAIN ADVANTADGES / BENEFITS:**

For the facilities we can offer a regular delivery of waste due to notification procedure.

For our customers, we offer an alternative recycling/disposal solution to raise their handling capacity.

#### **TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Our mission is to give turnkey solutions to our customer.

#### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

We are always looking for waste treatment plants, waste to energy plants, refuse dumps and every kind of facility allowed to thread and recycle/dispose industrial waste.

## Pala Innovazioni

Page: **345**

Address	Via Capo delle Armi 54 00122 - Ostia	<b>Italy</b>
Phone	06/5662037	
Email	innovazionipala@tiscali.it	
www	www.innovazionipala.it	
Organisation Type	Other	

### Contact Person

Name	<b>Luca Pala</b>
Position	Inventor

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Offer
» Waste collection	Technical Co-operation	» Offer/Request
» Waste storage and transport	Technological Co-operation	» Offer
» Waste treatment - plants and technologies	Joint research project	» Offer
» Waste selection and recycling	Manufacturing agreement	» Offer
» Eco-design and eco-compatible materials	Commercial agreement	» Request
» Treatment of wastewater and water for domestic consumptions	Financial agreement	» Request
» Saving water in intensive industrial manufacturing		
» Sewage facilities		
» Sewage services		
» Cooling and ventilation equipment		
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles		
» Sustainable mobility electric vehicles		
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility		
» Energy from waste and biomass		
» Wastes processing and their utilization as secondary raw materials		
» Biomass, bio-gas		
» Solar energy		
» Wind energy		
» Water energy		

### Investment - Vehicular exhaust gases purification system.

#### Abstract:

motori endotermici montati sui veicoli altamente inquinanti rilascio dei gas di scarico e le tecniche convenzionali non riescono a purificare e / o eliminare fumi in misura soddisfacente. Un innovativo sistema è stato brevettato

**Other - Compressor + Turbine + Alternator” to convert combined wind/solar energy into electrical energy.**

An Italian company (with a know-how that ranges from processes for the purification treatment of dusts/exhaust gases to systems for the contemporary exploitation of wind- and solar-energy) has specified the technical features of an additional set “Compressor +Turbine+Alternator” to generate electrical energy from systems made by solar concentrators, focalization chambers, sun beam captators and sheaf of pipes.

A company manufacturing the specified additional set with high reliability is sought.

**Description:**

Innovative systems for the contemporary exploitation of wind- and solar-energy can be described according to the following structure: a series of solar concentrators with focalization chambers and means for the captation of the sun beams (e.g. Fresnel lenses) plus a sheaf of pipes carrying water for thermic and sanitary use, passing through the above mentioned focalization chambers. These systems also comprise the following elements (with a frame to support them):

- an air conduct connected to a fan for leading the air inside the air conduct;
- tubular conducts for the reciprocal connection and for the connection with the air conduct , of the solar concentrators for the air passage, introduced by the fan , inside the focalization chambers and of the air conduct;
- an additional set “Compressor +Turbine+Alternator” represented by the interconnection of these three components (the electric generator is operated by wind turbines moved by the air flow passing inside the air conduct; a compressor is connected to the air conduct; the electric generator can be connected to a battery of accumulators having the function of a continuity group).

The additional set “Compressor +Turbine+Alternator” is therefore considered very important for a full and effective exploitation of the whole system and the search for a company manufacturing this additional set with high reliability and excellence requirements has been defined as high priority activity.

**Technical Specifications / Specific technical requirements of the request**

The additional set consists in the interconnection of three basic elements: the compressor, the turbine, the alternator. The main features of the three components are:

- high-pressure air compressor (approx 90 – 350 bar)
- turbine typology: trunk-conical
- synchronous alternator driven by transformer (option 1: approx min 6 KVA, max 30 KVA; option 2: approx min 6 KVA, max 100 KVA)

**Current and Potential Domain of Application**

Thermo-mechanical systems, electricity generation systems, purification treatment systems (fumes, dusts, exhaust gases), post-combustion processes.

**List of Keywords**

Technology

Mechanical Engineering, Hydraulics, Vibration and Acoustic Engineering related to construction technology  
Gas Safety

Generators, electric engines and power converters

Turbines, fluid machinery, reciprocating engines, combined heat and power



Air Pollution / treatment

Collaboration Type

License Agreement

Joint further development

Adaptation to specific needs

Assembly

Engineering

Technical consultancy



## PELLICANO VERDE S.p.A.

Page: **348**

Address	VIA APPIA s.n.c. 85054 - MURO LUCANO	<b>Italy</b>
Phone	097671745	
Email	c.selvaggi@pellicanoverde.it	
www	www.pellicanoverde.it	
Organisation Type	Other	

### Contact Person

Name	<b>SELVAGGI CARMINE</b>
Position	ADMINISTRATOR

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste collection	Technical Co-operation »
» Waste treatment - plants and technologies	Technological Co-operation »
» Waste selection and recycling	Joint research project » Request
» Treatment of wastewater and water for domestic consumptions	Manufacturing agreement »
» Wastes processing and their utilization as secondary raw materials	Commercial agreement »
	Financial agreement »

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** It works in the field of waste and remediation for decades.

#### FIELD OF ACTIVITIES:

Reclamation of polluted sites; Remediation of asbestos; Recycling, recovery and sale of waste and secondary raw materials. The collected secondary raw materials and waste packages are sorted and prepared for recycling. The company's equipment allows top quality sorting. The Pellicano Verde is entitled to receive from your system all types of non-hazardous waste for recovery (eg paper, cardboard, plastic, glass, aluminum, iron, wood, textiles, printer cartridges, etc. ..)

**MAIN PRODUCTS/SERVICES:** It provides the services mentioned above.

### Services - Bonifiche e commercializzazioni rifiuti

#### DETAILED DESCRIPTION:

We are looking for contacts to offer our services for site remediation and asbestos. We are looking for suppliers and buyers in the marketing of recyclable waste

## Planiplastic Ecologia Srl

Page: **349**

Address	Via Dell'Industria, 40 63033 - Monteprandone	<b>Italy</b>
Phone	0735/710771	
Email	info@planiplastic.it	
www	www.planiplastic.it	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandro Renzi</b>
Position	Managing Director

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Solar energy	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** Planiplastic Ecologia is a company founded to offer effective solutions for the European markets specialized in water treatment.

Structured into four company divisions – Water, Sewer/Drains, Construction Yards, and Planeco Water Treatment – Planiplastic Ecologia offers a vast range of products made of rotomoulded polyethylene, particularly appreciated for their light weight and resistance and, no less important, 100% recyclability.

The company's entire activity is regulated by a quality system conforming to the requirements of the UNI EN ISO 9001 standard

**FIELD OF ACTIVITIES:** Structured into four company divisions – Water, Sewer/Drains, Construction Yards, and Planeco Water Treatment – Planiplastic Ecologia offers a vast range of products made of rotomoulded polyethylene, particularly appreciated for their light weight and resistance and, no less important, 100% recyclability

**MAIN PRODUCTS/SERVICES:** polyethylene tanks, modular-element systems for the treatment of civil and industrial wastewaters, chemical and flushing portable toilets, mobile road barriers, inspection pits

**TECHNOLOGIES:** rotomoulded polyethylene



## Export - Exporting our products

### DETAILED DESCRIPTION:

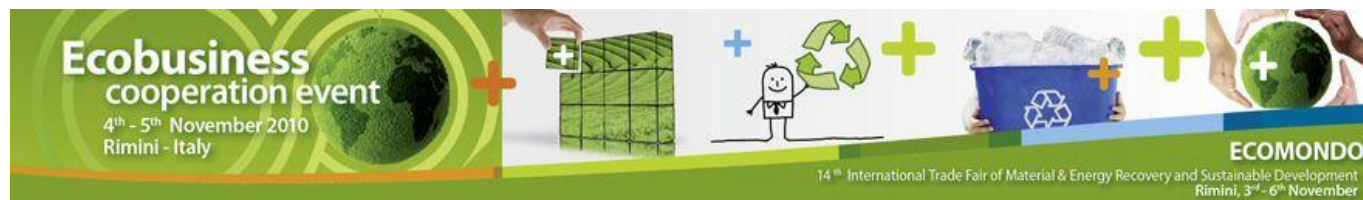
**INDUSTRIAL PRODUCTS:** tanks, drums, containers, tote bins, nesting pallets, pump bodies, septic tanks, sewage aerators and lifting units, machine instrument and appliance housings, mannequins, point-of-stage storage and display racks, temporary shelters, utility sheds, salad bars, air ducts, fishnet and navigational floats, portable toilets, grass catchers, and composting containers.

**TRANSPORTATION PRODUCTS:** truck-bed boxes, liners, and tool boxes, ventilating ducts, fuel tanks, crash-test dummies; battery cases, motorcycle saddle bags and fairings; go-kart bodies; highway signs; barricades, bumpers;

**CONSUMER PRODUCTS:** infant and adult furniture such as tables, chairs, beds, desks, and benches; insulated food and beverage containers: decorative planters, urns, vases, mail boxes; and doghouses.

**RECREATIONAL PRODUCT:** wading pools; sand boxes; playground equipment, row, motor, and sail boats; kayaks and canoes, playhouses, bowling equipment and furniture, toy storage boxes; carousel and hobby horses, camper tops; exercise equipment; and balls of all types and sizes.

**AGRICULTURAL PRODUCT:** water tanks; animal feeding and watering troughs; tractor cabs, harvesting-machine panels, and grain bins.



## politecnico di torino

Page: 351

Address	corso duca degli abruzzi 24 10129 - Torino	Italy
Phone	+390115643354	
Email	francesca.coletta@polito.it	
www	www.polito.it	
Organisation Type	University	

### Contact Person

Name	<b>Francesca Coletta</b>
Position	researcher

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste storage and transport	Technical Co-operation	» Offer
» Eco-design and eco-compatible materials	Technological Co-operation	»
» Energy from waste and biomass	Joint research project	» Offer/Request
» Biomass, bio-gas	Manufacturing agreement	»
» Solar energy	Commercial agreement	»
» Wind energy	Financial agreement	»
» Fuel cells		
» Building materials		
» Heating equipments		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Politecnico di Torino represents a leading public university, in Italy and in Europe, in technical-scientific teaching and research. Founded 150 years ago, nowadays Politecnico di Torino has three Schools of Engineering, two Schools of Architecture, a School of Economics and Management, plus a Post-Graduate School. In the last ten years new teaching centers have opened: Alessandria, Aosta, Biella, Ivrea, Mondovi and Vercelli. The Politecnico has about 26,000 students studying on 115 courses (39 Bachelor's degree; 35 Master of Sciences; 23 Doctorates and 18 specializations). Each year, between lectures, laboratories and practical exercises there are 170,000 hours of teaching. There is a staff of over 900 professors and researchers, and around 1000 administration and technical staff. Research activities are organized in the 18 "Dipartimenti" and in 12 service centres. Furthermore, the "Dipartimenti" provide Faculties and the Schools with teaching staff.

#### FIELD OF ACTIVITIES:

The Politecnico is a research university interested in the balanced development of both theoretical and applied research. It has closed relationships with international institutions, companies, local government and other types of association and takes social and economic consideration into account. With more than 150 bilateral international agreements and 40 double degree agreements, PT has links with the most prestigious Universities in Europe and in the world and participates in various initiatives to promote and encourage the student mobility and the attainment of degrees in its partner institutions. Moreover PT is part of some of the major European



interuniversity networks, such as CESAER, CLUSTER, E.C.I.U, EUA, CMU. These contacts will permit to spread and disseminate information and project results to a wider number of institutions. The participation to many international projects allows PT to count on a great experience both in project scientific and administrative management. In the 5th Framework Programme, Politecnico di Torino was involved in 88 EU projects and in 6th Framework Programme in 87 projects. In the 7th Framework Programme it has so far been involved in 45 project. It has moreover a strong experience in project coordination. For any further information about the Politecnico di Torino and its Departments, please see <http://www.polito.it>.

**Research - co-operation with enterprises and SME for developing european projects/for acting as subcontractors**

**MAIN ADVANTADGES / BENEFITS:**

we are looking for colloborating with eneterprises and smes to participate to european projects

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

- biomass
- solar
- grids
- ict
- nanotechnology
- energy storage

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

SME involved in the energy sector

## Pollution srl

Page: **353**

Address	Via Guizzardi 52 40054 - Budrio	<b>Italy</b>
Phone	051 6931872	
Email	pmonticelli@pollution.it	
www	www.pollution.it	
Organisation Type	Company	

### Contact Person

Name	<b>Matteo Monticelli</b>
Position	CEO

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Request
» Treatment of wastewater and water for domestic consumptions	Technical Co-operation	»
	Technological Co-operation	» Offer/Request
	Joint research project	» Offer/Request
	Manufacturing agreement	» Offer
	Commercial agreement	» Offer/Request

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: The factory produces Portable gaschromatographs and FID, as well as multipoint samplers. Pollution is also distributor of gas mass analyzer, water analyzer and particle analyzers

FIELD OF ACTIVITIES: Quality of the air and water

TECHNOLOGIES: Gaschromatography Mass spectrometry, Infrared PA Fotoacoustic, Flame ionisazion detector  
PORTABLE INSTRUMENTS

### **Manufacturing** - Manufacturer and dealer of poratble monitoring instruments for air quality gas control and water analisys

DETAILED DESCRIPTION: Miniaturized instruments

MAIN ADVANTADGES / BENEFITS: Field analysis

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): The knowledge is on miniature and low energy instruments

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: End utilizer, distributor, SMI involved in detectors field



## Portamivia by Imeca Srl

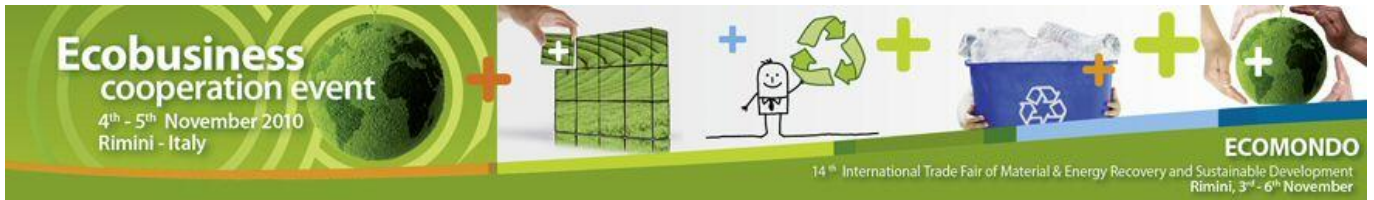
Page: **354**

Address	Via Amendola 123 06134 - Ponte Pattoli	<b>Italy</b>
Phone	+390755941366	
Email	info@portamivia.it	
www	www.portamivia.it	
Organisation Type	Company	

Contact Person	
Name	<b>Luca Marcaccioli</b>
Position	Export Manager

Areas of activity	Type of co-operation
» End products made with salvaged material	Licence agreement »
» Eco-design and eco-compatible materials	Technical Co-operation »
» Building materials	Technological Co-operation »
	Joint research project »
	Manufacturing agreement » Offer/Request
	Commercial agreement » Offer/Request
	Financial agreement »

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Our background originates from the pride that we always had in our work and that continues to grow thanks to our strong roots and thanks to the people that make this growth stronger day by day. Our activity began in 1800 and nowadays it is based on a factory producing wooden doors for builders, contractors and also for carpentries and largest industry in Italy and abroad because of the many years experience in the field. The latest generation includes extremely important investments in woodworking equipment and machineries, allowing us to remain a key player and model company in the constantly changing market requirements.</p> <p><b>FIELD OF ACTIVITIES:</b> Interiors and wood accessories</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Manufacturing of interior doors and accessories Production of wood made gadgets and accessories out of recycled and regenerated woodworking scraps.</p> <p><b>TECHNOLOGIES:</b> First italian producer of ecological interior doors and accessories. Producer of the first do-it-yourself door ever.</p>



**Export - Ecological interior doors and do-it-yourself doors manufacturer. From forest to town responsibly.**

**DETAILED DESCRIPTION:**

We are looking for contractors, dealers, public organizations who are interested in cooperating with us. We grant high-quality wood products for creative and also low-cost solutions in any type of residence, office, public venue and community centre.

**MAIN ADVANTADGES / BENEFITS:**

Do It Yourself, modular internal door supplied as a kit, assembly required.  
 Easy, quick assembly, with illustrated instructions, that is accessible to everyone.  
 Creative, design and colour your door choosing from a vast range of models and varnishes.  
 Versatile, suitable for both right and left openings on all wall types.  
 Inexpensive, purposely designed to eliminate production and distribution costs (factory purchasing).  
 Ecological, wood used exclusively from responsibly managed forests.  
 Renewable, transform and reinvent your door whenever you choose.  
 Made In Italy, high-quality Italian solid wood and hardware.  
 Custom, the size you want.  
 Great flexibility, modular production open to whatever solution like custom-made measures and manufactures personalization (designing/shaping, finishing and accessories).  
 Manufacturing process oneness, handicraft more than industrial workmanship of the product as result of singleness and originality of the process, according with the company beginning.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Wooden doors made by all certified woods and recycled wood from post-consumptions.  
 Large-scale production of solid wood interior doors and related accessories addressed to handicraft wood workshops and wood industries.  
 Materials selection, production engineering and components uniformity mark out the whole range of the products:  
 interior doors, doorframes, architraves, raised panels and other accessories.  
 Various wood species available.  
 Producer of gadgets and accessories wood made of recycled and regenerated woodworking scraps.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

We are seeking reputable partnerships to sell and to deal with our products. The profile provides wide courtesy and full engagement that ensures an undoubted return of profit with the max mutual satisfaction.

**Import - Certified wood suppliers seeking, blockboard, finger-joint, plywood, MDF, veneer**

**DETAILED DESCRIPTION:**

Seeking of certified and recycled wood suppliers.

**MAIN ADVANTADGES / BENEFITS:**

Flexible and wood-minded suppliers granting services, courtesy and engagement

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

We evaluate the following wood suppliers dealing with:  
 Blockboard / Finger-joint / Plywoods / MDF / wood veneers / wood scrap

## POVELATO SRL

Page: 356

Address	VIA DELLE MACCHINE 15/17 30038 - SPINEA	<b>Italy</b>
Phone	+39(0)41991622	
Email	povelato@povelato.it	
www	www.povelato.it	
Organisation Type	Other	

Contact Person	
Name	<b>POVELATO DAMIANO</b>
Position	DIRECTOR

Areas of activity	Type of co-operation	
» Other	Licence agreement	»
	Technical Co-operation	» Offer
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	» Offer
	Commercial agreement	»
	Financial agreement	»

Short description of company
FIELD OF ACTIVITIES: POVELATO S.R.L. manufactures blades for granulators, grinders, shredders, crushers, dieers, cutters, granules cutters and custom-made knives, made of steel-chrome alloy, special HSS (high-speed steel) and new powder steel

<b>Manufacturing - Manufactures blades for granulators, grinders, shredders, crushers, knives for industry</b>
<p>POVELATO S. R. L. is pleased to introduce itself to you as a possible new supplier. Our presence in the field of plastic and other non-ferrous materials cutting goes back decades. However, the market currently requires advanced qualifications, equipment and technology, which is why we have concentrated our efforts in this sector to guarantee our customers a service focused on providing totale quality.</p> <p>Our modern workshop has CNC machines for blade milling and grinding, thus obtaining high levels of precision. The treatments are predominately carried out with furnaces in a controlled environment, giving the material a perfect uniform structure that provides the blade itself with high resistance to wear and mechanical stress.</p> <p>We are supplies for all the major manufacturers of Italian grinders, who chose us for our product's quality, for our reasonable prices and the continuous assistance we offer so that our customers can be more competitive with the best products on the market.</p> <p>Do not hesitate to inform us of your particular needs We will be pleased to explain how our products and service can best meet your requirements.</p>

## Primis srl

Page: **357**

Address	taverna dell'alba, 3 650'24 - Manoppello	<b>Italy</b>
Phone	+39 0858562053	
Email	info@primissrl.it	
www	www.primissrl.it	
Organisation Type	Company	

### Contact Person

Name	<b>Leo Cipressi</b>
Position	

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste collection	Technical Co-operation »
» Waste storage and transport	Technological Co-operation »
» Waste selection and recycling	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

**COMPANY PROFILE / EXPERIENCES:** Primis srl is an organization skilled in trading services for the field of explosive goods since more than 15 years. They accumulated a lot of international working experiences both for the military field as well as for the civilian / industrial ones.

#### WORKING FIELD:

Explosives disposal both when under the waste regulation and when under public security standards and laws.

#### PRINCIPALI PRODOTTI / SERVIZI:

Disposal of air bag, reacting of labs dealing with explosive risk, H1 waste typology; disposal of the material classified as "explosives" by the Unique Text of Public Security Laws and Regulation, arms, nautical signals, etc.

**TECNOLOGIE:** selection, treatment and inertization

### Import - Import – Opening new commercial trading abroad to our services in the field of explosives disposal

Descrizione dettagliata: Esclusivamente negoziazione dei Nostri Servizi

**ADVANTADGES MAIN / Benefici:** Difficult in finding a specific specialization relevant to the management of explosives

**CARATTERISTICHE TECNICHE (La compilazione di NB Tutti Gli Ingredienti e campo fortemente Consigliato):**

Skilfulness in waste trading and strong know-how of the legislation in force in ea. referred country.

**TIPO o le qualifiche di potenziale partner:** Experience in waste trading

## ProAcqua Group Srl

Page: **358**

Address	Via Maioliche 137 38068 - Rovereto	<b>Italy</b>
Phone	+390464425222	
Email	info@proacquagroup.com	
www	www.proacquagroup.com	
Organisation Type	Company	

### Contact Person

Name	<b>Cristiano Ferrari</b>
Position	Gen. Man.

Areas of activity	Type of co-operation														
» Other	<table border="0"> <tr> <td>Licence agreement</td> <td>»</td> </tr> <tr> <td>Technical Co-operation</td> <td>»</td> </tr> <tr> <td>Technological Co-operation</td> <td>»</td> </tr> <tr> <td>Joint research project</td> <td>»</td> </tr> <tr> <td>Manufacturing agreement</td> <td>»</td> </tr> <tr> <td>Commercial agreement</td> <td>» Request</td> </tr> <tr> <td>Financial agreement</td> <td>»</td> </tr> </table>	Licence agreement	»	Technical Co-operation	»	Technological Co-operation	»	Joint research project	»	Manufacturing agreement	»	Commercial agreement	» Request	Financial agreement	»
Licence agreement	»														
Technical Co-operation	»														
Technological Co-operation	»														
Joint research project	»														
Manufacturing agreement	»														
Commercial agreement	» Request														
Financial agreement	»														

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** ProAcqua Group S.r.l. is a subsidiary of German ProMinent Holding which was founded in Heidelberg in 1960 thanks to the unique passion for technology of Sen. Prof. Viktor Dulger, president of the company.

In 1994 it obtained the ISO 9001 certification joined with the prestigious TÜV seal on its products.

The direct subsidiaries worldwide are 41, with a workforce of 1,400 skilled technicians, in addition to the commercial service there are 70 representative agencies ensuring worldwide coverage of the assistance.

ProMinent has produced thousands of public and private facilities so far, establishing its leadership worldwide for the special quality of mechanical and electronic technology.

ProMinent is often preferred supplier for the construction of high-tech control panels: complex swimming pool, remote-controlled sports facilities, cruise ships are the most usual applications of our top-qualified customers. Many of our prestigious customers use ProMinent even on simpler installations trusting the reliability of our products to eliminate unpleasant after-sales operations and the respective customer dissatisfaction.

**FIELD OF ACTIVITIES:** public water treatment

**MAIN PRODUCTS/SERVICES:**

VonTaine City: a new Concept of public Fountain

The water from aqueduct has never been so good! ... still or sparkling?

**TECHNOLOGIES:** The VonTaine City is the modern version of the public water fountain. It produces still and sparkling fresh drinking water of high quality. The VonTaine becomes a meeting point for the community as in the past and the old traditional values will be rediscovered and enhanced through the use of this modern





technology. Additionally, the VonTaine City is environmentally friendly because it helps to reduce energy costs and plastic waste. The advantage of supporting a new sustainable development will be immediate.

**Manufacturing - we are looking for distributor of VonTaine City that's a new GREEN Concept of public Fountain**

The VonTaine City is the modern version of the public water fountain. It produces still and sparkling fresh drinking water of high quality. The VonTaine becomes a meeting point for the community as in the past and the old traditional values will be rediscovered and enhanced through the use of this modern technology. Additionally, the VonTaine City is environmentally friendly because it helps to reduce energy costs and plastic waste. The advantage of supporting a new sustainable development will be immediate

**MAIN ADVANTADGES / BENEFITS:**

- It helps to promote the quality and safety of public water
- It reduces the consumption and disposal plastic bottles
- It helps to promote a commitment to the environment
- It helps reduce costs to the community

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

It produces still and sparkling fresh water in unlimited amounts

- Either as an Island or alternatively in the wall position
- Conforms to regulations for disabled use
- Vandal proof design
- Safety canopy protection
- Internal insulation to give protection against freezing
- Choice of still or sparkling water
- Shelf for bottles with a drip tray to catch any overflow
- LED night lighting
- Space for advertising, communication and information

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

**Supplier - vonTaine City - The new public fountain**

VonTaine City public water dispensing system.

VonTaine City is a modern version of a public fountain.

It dispenses still and sparkling fresh drinking water, to promote tap water enhancing its quality and safety. Moreover, as it was in the past, it becomes a place that favors aggregation and socializing. You can rediscover an important tradition's value enhanced by a contemporary fountain which uses the latest water technology, with particular attention to the environment by using all the new available resources to save energy and reduce the amount of plastic waste with all its subsequent disposal problems.

The advantages of supporting a new sustainable development policy are immediate.

Each VonTaine City installed saves on average 30.000 bottles in PET avoiding 1500 of Co2 emission in the atmosphere.

Also, it's a self financing tool for local government and public bodies while producing a "km 0" fresh drinking water to avoid usage of bottled water.





## Proclesis Srl

Page: **360**

Address	Via Emilia, 18 20090 - Segrate	<b>Italy</b>
Phone	+ 39 02 21871307	
Email	alessandra.boldreghini@proclesis.it	
www	www.proclesis.it	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandra Boldreghini</b>
Position	Sales Manager

Areas of activity	Type of co-operation
» Energy saving and efficiency	Licence agreement »
» Control/metering equipments for heating in buildings	Technical Co-operation »
» Other Energy topics	Technological Co-operation » Request
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

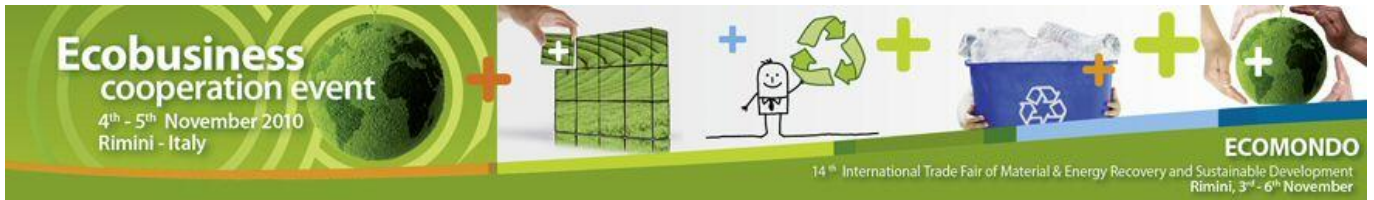
Proclesis is an IT company established in 1995 by two ex-ibm employees, part of Ibm central technical support. We realized global solutions thanks to our cross experiences and competences. We are working directly with producers to better choose the right hardware and software solution.

#### FIELD OF ACTIVITIES:

Market Segmentation  
Automotive  
Pharmaceutical  
Distribution  
Insurance  
Production  
Health: Hospital  
Energy

#### MAIN PRODUCTS/SERVICES:

Cabling  
Networking  
Voice  
Operating systems



Servers and clients  
 Security  
 Network/systems management  
 Disaster recovery-business continuity  
 Make us a solution integrator

**TECHNOLOGIES:**

The company has developed an application that allows to monitor power consumption in order to identify how to operate to reduce it and energy costs. The software is available as a SaaS (Software as a Service) through personalized web pages and connections HTTPS (Hypertext Transfer Protocol over Secure Socket Layer) to assure privacy and security.

**INNOVATIVE ASPECTS:**

The Energy Saving Project tool is web based , developed on open software. The tool collects :  
 - All kind of asset present in a company related to energy; - Cost ( invoice); - Data related to monitoring about the consumption trough WIFI, SD, GSM and other specific technical instruments.

Using the ESP Energy Saving Project it is possible to have all information , trend , compare between real energetic consumption and invoices paid for it.

The tool also provide different type of graphic results. ESP “Energy Saving Project“ it is an application that can be used in any average and small society independently from the market segment to which it belongs.

The application allows to monitor power consumption in order to identify how to operate to reduce it and energy costs.

The software is available as a SaaS (Software as a Service) through personalized web pages and connections HTTPS (Hypertext Transfer Protocol over Secure Socket Layer) to assure privacy and security.

The ESP application can be personalized for all specific needs and can be used from the company of any sector.

**Services - Provide tools to monitoring and managing Energy cost and consumption**

**DETAILED DESCRIPTION:**

The company has developed an application that allows to monitor power consumption in order to identify how to operate to reduce it and energy costs. The software is available as a SaaS (Software as a Service) through personalized web pages and connections HTTPS (Hypertext Transfer Protocol over Secure Socket Layer) to assure privacy and security.

**MAIN ADVANTADGES / BENEFITS:**

The Energy Saving Project tool is web based , developed on open software. The tool collects :  
 - All kind of asset present in a company related to energy; - Cost ( invoice); - Data related to monitoring about the consumption trough WIFI, SD, GSM and other specific technical instruments.

**TECHNICAL SPECIFICATIONS (The compilation of this field it’s strongly suggested):**

Using the ESP Energy Saving Project it is possible to have all information , trend , compare between real energetic consumption and invoices paid for it.

The tool also provide different type of graphic results. ESP “Energy Saving Project“ it is an application that can be



used in any average and small society independently from the market segment to which it belongs.

The application allows to monitor power consumption in order to identify how to operate to reduce it and energy costs.

The software is available as a SaaS (Software as a Service) through personalized web pages and connections HTTPS (Hypertext Transfer Protocol over Secure Socket Layer) to assure privacy and security.

The ESP application can be personalized for all specific needs and can be used from the company of any sector.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

We are looking for a commercial agreement with technical assistance and technical cooperation with company that should add to their products/services our tool related to energy cost saving.

## PROG.EL. S.N.C.

Page: **363**

Address	VIA XI SETTEMBRE, 11 47020 - LONGIANO	<b>Italy</b>
Phone	0547-666165	
Email	progel@progelimpianti.it	
www	www.progelimpianti.it	
Organisation Type	Company	

### Contact Person

Name	<b>GIANPAOLO ORLANDI</b>
Position	Agent

Areas of activity	Type of co-operation	
» End products made with salvaged material	Licence agreement	»
» Eco-design and eco-compatible materials	Technical Co-operation	»
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility	Technological Co-operation	» Request
» Energy from waste and biomass	Joint research project	»
» Solar energy	Manufacturing agreement	»
» Geothermal energy	Commercial agreement	» Request
» Energy saving and efficiency	Financial agreement	»
» Energy conversion		
» Control/metering equipments for heating in buildings		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

PROGEL snc has been on the market of renewable energies since 2002, assuring a complete and constant assistance both to the civil and industrial sector, both public and private.

#### FIELD OF ACTIVITIES:

We supply a service of consultancy, design, installation and maintenance of photovoltaic plants, geothermal plants, for residential, trading and industrial use, collaborating with the main manufacturers of modules and inverters, aiming at identifying the best possible solution for every kind of plant.

#### MAIN PRODUCTS/SERVICES:

Ground and roof photovoltaic plants and geothermal plants.

#### TECHNOLOGIES:

Monocrystalline, polycrystalline and amorphous.



## **Manufacturing - New technologies for the production of solar panels**

### **DETAILED DESCRIPTION:**

Progel has always been interested in the search for new technologies in the photovoltaic sector.

### **MAIN ADVANTADGES / BENEFITS:**

In particular, we are looking for new solutions and ideas to manufacture solar panels offering a higher energy performance through the use of new silicon materials with concentrator lenses and new installation methodologies to guarantee fastest installation times.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Panels photovoltaic builders and research institutes

## PROGEPITER s.r.l.

Page: **365**

Address	Antondomenico Rossi n.38 29121 - Piacenza	<b>Italy</b>
Phone	05231885661	
Email	energia@progepiter.it	
www	www.progepiter.it	
Organisation Type	Company	

### Contact Person

Name	<b>Daniele Sogni</b>
Position	CEO

Areas of activity	Type of co-operation	
» Wind energy	Licence agreement	»
» Water energy	Technical Co-operation	» Offer
» Geothermal energy	Technological Co-operation	» Offer
» Energy saving and efficiency	Joint research project	»
» Energy conversion	Manufacturing agreement	»
» Other Energy topics	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

PROGEPITER s.r.l. develop energy management systems. An Energy management system allow you to define policy, opportunities, and programs to improve energy efficiency, lead to reductions in costs and GHG emissions, introduce a continuous improvement process, lead to more efficient energy use and create energy monitoring plans as well as energy analysis

FIELD OF ACTIVITIES: renewable energy, energy savings, energy efficiency, energy management system, EN 16001:2009

MAIN PRODUCTS/SERVICES: consulting activities about energy management systems, renewable energy project, energy audits, audit & implementation of energy systems for companies and organizations as municipalities, associations, etc.

### Consulting - Implementation of Energy management system for companies or organizations

DETAILED DESCRIPTION: PROGEPITER s.r.l. develop energy management systems. An Energy management system allow you to define policy, opportunities, and programs to improve energy efficiency, lead to reductions in costs and GHG emissions, introduce a continuous improvement process, lead to more efficient energy use and create energy monitoring plans as well as energy analysis





**MAIN ADVANTADGES / BENEFITS:** Reduction in energy costs, improve business performance, increase productivity and competitiveness and reduction in GHG emissions and meet legal requirements and other requirements submitted by organization

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested): our reference is the standard EN 16001:2009 about energy management system. The standard specifies the requirements for an energy management system to enable your organization to develop and implement a policy, identify significant areas of energy consumption and target energy reductions. An energy management system is suitable for any organization – whatever your size, sector or geographical location. It is particularly relevant if you operate in an energy intensive industry or one facing GHG emission legislation.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** service company, consultants, energy intensive companies, PMI, municipalities.

## PROMEKO SpA

Page: **367**

Address	MUGIASCA 4 22100 - COMO	<b>Italy</b>
Phone	+393472668485	
Email	franzini@promeco.it	
www	www.promeco.it	
Organisation Type	Company	

### Contact Person

Name	<b>FRANZINI SERGIO</b>
Position	SALES DIRECTOR

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	»
» Waste selection and recycling	Technical Co-operation	»
» End products made with salvaged material	Technological Co-operation	»
» Treatment and disposal of the resultant sludge	Joint research project	»
» Energy from waste and biomass	Manufacturing agreement	»
» Wastes processing and their utilization as secondary raw materials	Commercial agreement	» Offer/Request
» Biomass, bio-gas	Financial agreement	» Request
» Pellets		
» Secondary fuels		
» Other Energy topics		

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** PROMECO SpA is an Italian company involved in engineering, planning & turnkey building of MSW and Industrial Waste treatment plants for waste processing (urban, industrial, agricultural, hospital's...); it was founded in 1996 and through the years has strengthened its technical knowledge, according to the existing laws.

In 2002 PROMECO SpA acquired the activity of its partner DOKEX SRL (a Swiss former technology) for the world patented production of the Extruder System, a multi purpose strong machine world wide known for RDF high density pellets and briquettes production

Promeco SpA is pleased to promote itself as your partner for the evaluation and the realization of your projects in joint effort with your technical, productive and commercial teams. More than 200

machines and turkey plant realise since PROMECO's birthday. The last MSW PROMECO® integrated process project have receive from ONU the accreditation project for protocol of Kyoto to PROMECOplant give definitely a value added to PROMECO experience. Now a days PROMECO work in different world country, our ambition and target is a worldwide presence, we for work for a better world!

**FIELD OF ACTIVITIES:** Turn key plant, Waste treatment plant , waste to energy, , waste & plastics machines production.

**MAIN PRODUCTS/SERVICES:** Shredders, briquettes machines, agglomerator machine, pelletizer machine,



centrifuge, washing line, densifier, mechanical drier, technologies distribution, engineering, outsourcing waste engineering for waste company and investors

TECHNOLOGIES:MSW turn key plant with PROMECO® integrated process ,waste treatment plant, high quality RDF turn key plant, granulator, RDF briquettes technologies and machines, biogas plant for waste organic fraction, anaerobic digestion mechanical pre-treatment, sorting plant, turn key plastic recycling plant, two shaft shredder, one shaft shredder, centrifuge and mechanical drier for plastic recycling, agglomerator, pelletizer, PROMECO plant technologies end waste to products, PASTIC TO DIESEL technology plant, biomass treatment for Syngas plant, hospital waste turn key plant.

### **Export - to sell PROMECO's machines and tecnolgies outside italian country**

DETAILED DESCRIPTION:Shredders, briquettes machines, agglomerator machine, pelletizer machine, centrifuge, washing line, densifier, mechanical drier, technologies distribution, engineering, outsourcing waste engineering for waste company and investors

MAIN ADVANTADGES / BENEFITS: High tecnologies level, high efficiency, very low management cost, strong and durability macines.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): MSW turn key plant with PROMECO® integrated process ,waste treatment plant, high quality RDF turn key plant, granulator, RDF briquettes technologies and machines, biogas plant for waste organic fraction, anaerobic digestion mechanical pre-treatment, sorting plant, turn key plastic recycling plant, two shaft shredder, one shaft shredder, centrifuge and mechanical drier for plastic recycling, agglomerator, pelletizer, PROMECO plant technologies end waste to products, PASTIC TO DIESEL technology plant, biomass treatment for Syngas plant, hospital waste turn key plant.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Distributor, trader, import trader, waste equipment selling.

## RCM Spa

Page: **369**

Address	Via G.Tiraboschi, 4 41043 - Casinalbo di Formigine	<b>Italy</b>
Phone	+39059515320	
Email	dsambati@rcm.it	
www	www.rcm.it	
Organisation Type	Company	

### Contact Person

Name	<b>Daniele Sambati</b>
Position	Sales Director

Areas of activity	Type of co-operation
» Waste collection	Licence agreement »
» Treatment of wastewater and water for domestic consumptions	Technical Co-operation »
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Technological Co-operation » Request
» Fuel cells	Joint research project »
	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** RCM is a manufacturer of sweeping and scrubber dryer machines for industrial and urban applications.

**FIELD OF ACTIVITIES:** Industry, municipalities, cleaning contractors, Ho.Re.Ca (hotels, restaurants, catering).

**MAIN PRODUCTS/SERVICES:** Walk behind and ride on industrial or urban sweepers, walk behind and ride on scrubber-driers.

**TECHNOLOGIES:** RCM machines are diesel or gasoline engines or lead-acid or gel battery powered; we use also electric motors and hydraulic ones.

### Research - New technologies and solutions ecosustainable related to the sector of sweepers and scrubber-dryer machines

**DETAILED DESCRIPTION:** We are looking for new solutions in dust filtering system, electric motors low consumption, litio batteries, ultrasound or ozone or ultraviolet cleaning methods, collected water (by scrubber-dryer) treatment and all the technology related to the sweeping and/or scrubber-dryer machines.

**MAIN ADVANTADGES / BENEFITS:** All the new solutions ecosustainable can improve the quality of environment.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):** Alla the solutions can meet the applications to the sweeping and/or srubber-dryer machines RCM is manufacturing.

## REGENESI SRL

Page: **370**

Address	PIAZZA SAN MARTINO 3 40126 - Bologna	<b>Italy</b>
Phone	051 239808	
Email	INFO@REGENESI.COM	
www	WWW.REGENESI.COM	
Organisation Type	Company	

### Contact Person

Name	<b>MARIA SILVIA PAZZI</b>
Position	CEO

Areas of activity	Type of co-operation
» End products made with salvaged material	Licence agreement »
» Eco-design and eco-compatible materials	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement » Offer/Request
	Commercial agreement » Offer/Request
	Financial agreement » Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Regenesi designs, manufactures and markets original design products – with a high reputation for quality – produced from post-consumer recycled materials. The intention is to promote “sustainable beauty” and so represent a genuine lifestyle.

It amounts to a storehouse of products of various types, ranging from household objects to fashion accessories. The common thread lies in the novel use of post-consumer materials – previously employed only for goods in everyday use or incorporated in non-visible product components – that are used, from now on, not only in a functional, healthy and appropriate way but also to generate something attractive and up-to-the-minute. Aluminium, glass, plastic, leather and cardboard – when treated with novel processing techniques that ensure quality standards identical to those of virgin raw materials - become desirable objects.

The company is responding, in this way, to the craving for eco-sustainability, an ever more widespread and popular demand in the modern world.

The ambition is actually to promote the imprinting of Italian design and the quality of a product that is also ethically attractive – on a worldwide community of “responsible consumers”, leaving its mark in a field in which we are the envy of the world and to which it adds enormous value, the Italian Lifestyle.

The collections are created by the best-known international designers, such as matali crasset, Marco Ferreri, Giulio Iacchetti, Setsu e Shinobu Ito, Denis Santachiara, Kaisli Kiuru, who - through interpretations with unfamiliar materials and a different creative approach - have produced objects with the potential to excite and release new





energy. Regenesi will also give opportunities to up-and-coming young designers, both through projects undertaken with Italy's best design colleges and with the international community, progressed through the company's website. Partnership arrangements are currently in place with the Polytechnic University of Turin and the University of Venice.

Products are for sale online at [www.regenesi.com](http://www.regenesi.com), selected shops in the world (Merci – Paris, Triennale – Milano, Palazzo delle Esposizioni – Roma, etc..) and temporary showrooms during the most important international events dedicated to art and design. These occasions will be announced directly on the events section of the site.

**FIELD OF ACTIVITIES:**

Design&Fashion.

**MAIN PRODUCTS/SERVICES:**

Home, office and fashion accessories.

**Manufacturing - Co-Brand Project - Creation of design products made of recycled materials for your internal communication, events/exhibitions and customers**

**DETAILED DESCRIPTION:**

Regenesi aims at being a partner for all the companies who perceive eco-sustainability as a value and who look for products able to give this business value visibility. In fact, our objects can be customized thus giving the possibility to give as a present, for Christmas or for specific business events, an Italian design and quality product which is also ethically beautiful.

**MAIN ADVANTADGES / BENEFITS:**

Creation of design products made of recycled materials for your internal communication, events/exhibitions and customers

Support for your social responsibility projects

Co-brand Projects/Products:

- Realization of specific products from salvage of your industrial waste (product life cycle responsibility)
- Organization of common events.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

You can see the catalogue of products currently on sale at the following link :

<http://www.regenesi.com/en/B2B.html> while, out of catalogue, we develop specific projects for corporate communication that can go for example - from documents holder in different sizes up to I-pad holder.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

companies



## Renew Energy

Page: **372**

Address	E. Orabona 4 70125 - Bari	<b>Italy</b>
Phone	080-5963590	
Email	info@renewenergy.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Silvano Vergura</b>
Position	CEO

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer
» Wind energy	Technical Co-operation	» Offer/Request
» Energy saving and efficiency	Technological Co-operation	» Offer
» Building materials	Joint research project	» Offer/Request
» Control/metering equipments for heating in buildings	Manufacturing agreement	»
» Other Energy topics	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Renew Energy is an Academic Spin-Off of the Politecnico di Bari. Its innovative activities regards the monitoring of the energy performance for RES.

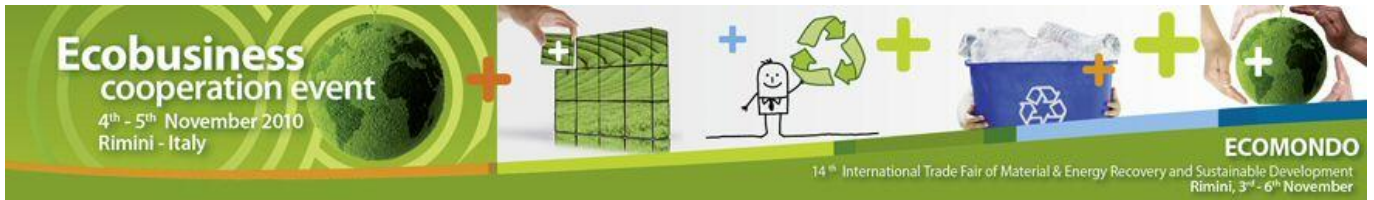
FIELD OF ACTIVITIES:Renewable energy sources (specially photovoltaic and wind plants) and Green ICT

#### MAIN PRODUCTS/SERVICES:

a) monitoring of electrical and energy performances of RES based on advanced statistical techniques developed within the Department of Electrotechnics in Politecnico di Bari;

b) non-destructive diagnostics of RES by thermo-graphical analysis (acquisition, pre-processing and procesising of the infrared images).

c) Designing and feasibility studies on RES



**Services - to sell our services related to the monitoring of energy performance for RES and to activate partnership for R&D on RES**

**DETAILED DESCRIPTION:**

The Italian research group based in southern Italy, has been involved for several years in research activities related to the RES. The most recent achieved results have led to start up a Spin-Off company with the intention to turn research results to an innovative product.

A prototype of monitoring systems has been implemented based on:

- i) inferential statistics for Photo Voltaic (PV) and wind plants applications
  - ii) a processing mechanism of high resolution infrared camera data for fault diagnosis of PV and wind plants.
- In many European countries, the energy production deriving from RES is directly related to the economic support obtainable. Then, the monitoring of the energy performances is very important task for both technical and economic points of view.

In a standard approach for energy efficiency monitoring of the RES plants (specific case of PV plant), the descriptive statistical analysis allows taking information about the operation of the PV plant related to a past long period; in this manner all the electrical and energy data available for a time range are taken into account. This analysis allows detection of happened or happening mis-operations/failures. Similar approach and analysis can be easily utilized for wind farms

Unlike in the standard approach, inferential statistics allows the PV plant to be monitored during its operation. This approach is effective only if a preliminary analysis of the PV plant has been carried out in order to characterize the typical performance parameters of the PV plant related to the installation conditions. This step allows the expected values of the performance benchmarks to be compared with the real ones in order to evaluate the amount of the mismatches (if they're present) and their causes.

A second methodology is based on Infrared thermography by means of high-resolution thermo-cameras, for pre-fault and fault diagnosis of PV and wind plant. The utilized cameras are able to:

- 1) highlight present failures with better accuracy than ensured by low-resolution cameras
  - 2) give light information characterizing the pre-fault conditions through image pre-processing and processing
- The pre-processing step is used to eliminate or reduce the noise of the infrared thermographs, while the processing step enables the extraction of the image features.

**MAIN ADVANTADGES / BENEFITS:**

When a failure for RES happens, the energy production decreases, then, also the economic revenue decreases. The innovation of the proposed technology consists in applying advanced statistics tools to study in depth the behaviour of a plant under test. The proposed approach, unlike the other ones on the market, allows a misoperation to be highlighted before it becomes a failure. Then, the behaviour of the plant results optimized and the reduction of the economic benefit is minimal.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):** Procedure, algorithms and software which are going to be implemented in SCADA system for automatically monitoring PV and wind plants.

## Ribes Ricerche S.r.l.

Page: **374**

Address	Via Laboratori Vittime del Col du Mont 2 11100 - Aosta	<b>Italy</b>
Phone	+ 39 0165 305585	
Email	info@ribesricerche.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Gian Paolo Salvador</b>
Position	Researcher

Areas of activity	Type of co-operation	
» Treatment of wastewater and water for domestic consumptions	Licence agreement	» Offer
» Other	Technical Co-operation	» Offer/Request
» Other Energy topics	Technological Co-operation	» Offer/Request
	Joint research project	» Offer
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

FIELD OF ACTIVITIES: Research, Precompetitive Research, Prototypisation and Process Innovation  
TECHNOLOGIES: Optical sensor for CO2 monitoring

### Research - Optical sensor for CO2 monitoring by means of a nanostructured porous silicon substrate

#### DETAILED DESCRIPTION:

An Italian SME, focused on industrial research, developed and tested an optical CO2 sensor characterized by a nanostructured porous silicon substrate (modified NDIR method) for indoor and outdoor applications. This sensor can offer a better selectivity, even at low gas concentrations, than the most of commercial carbon dioxide sensors.

The company is looking for technical co-operation with academic/industrial partners available to customize the prototype and to adapt it to specific needs.

#### MAIN ADVANTADGES / BENEFITS:

An Italian SME, focused on Industrial Research, Precompetitive Research, Prototypisation and Process Innovation has developed and tested innovative optical sensors, characterized by a nanostructured porous silicon substrate for the environmental monitoring.

The company, on the market since its foundation in 2005, presents itself as a qualified actor for the sensor technologies research.

In particular it developed expertises in:

- microrobotic and process engineering
- nanotechnologies
- wireless networks and communication protocols
- sensoristics for indoor and outdoor applications
- energy saving techniques

This CO<sub>2</sub> sensor is based on NDIR method to detect the gas; the classical method was modified by using an optical porous silicon structure as filter. This let the sensor be more selective and sensitive than other CO<sub>2</sub> commercial sensors.

The technology can be applied to the realization of a large range of different gas sensors (e.g. NO<sub>2</sub>, CH<sub>4</sub>, CO, SO<sub>2</sub>, benzene, NH<sub>3</sub>, etc.), that can be used in a lot of application fields.

Another interesting feature that is related to this technology is that it is cheap and let customers project a monitoring network easily and more efficient than the commercial solutions, available at the moment; even choosing which kind of alimentation and data transmission system.

Actually the SME is interested in expanding its activities, through commercial agreements and technical co-operation with academic/industrial partners available to customize the prototype and to adapt it to specific needs.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

Sensor technologies;

Control electronics of sensor microsystem;

Interface on "general purpose" level

Communication system;

System prototipe of communication and final integration

This technology can be used to detect other gases, just opportunely tuning the porous silicon substrate. It is also cheap and can be used to project a more efficient monitoring network for environmental or safety purposes.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

SMEs, Research centre, universities and public administration involved in the environment monitoring

Environment protection, sensor technologies

## RISANASARDA RICERCA E SVILUPPO

Page: 376

Address	Loc. Poggio dei Pini str. 4 n. 4 09012 - Cagliari	<b>Italy</b>
Phone	1786069081	
Email	paolocaredda@risanasarda.it	
www	www.risanasarda.it	
Organisation Type	Company	

### Contact Person

Name	<b>Paolo Caredda</b>
Position	Director

Areas of activity	Type of co-operation
» Treatment and disposal of the resultant sludge	Licence agreement »
» Other	Technical Co-operation » Offer
» Other Energy topics	Technological Co-operation » Offer
	Joint research project » Offer
	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** RISANASARDA R&S began in August 2008 as a project by two young university Ph.D. researchers. In the same year RISANASARDA won the award "Creazione Imprese Innovative Giovani Imprenditori - P.O.R. Sardegna 2000 – 2006 - Misura 3.13 Ricerca e Sviluppo Tecnologico nelle Imprese e Territorio" for innovative research and development business ideas.

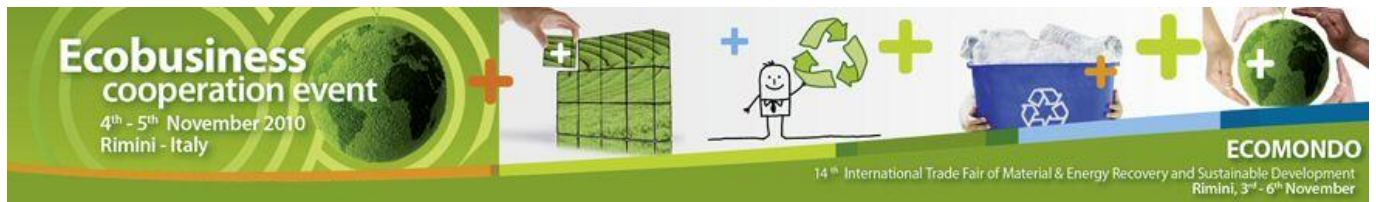
#### FIELD OF ACTIVITIES:

The main activities of RISANASARDA R&S are related to contaminated sites remediation. In particular:

- Consulting, environmental monitoring and sampling
- Research and development

**MAIN PRODUCTS/SERVICES:** RISANASARDA R&S is a reference consultant and a local support for remediation of contaminated sites. The company is able to manage the whole remediation process, from the initial characterisation to the final certification of reclamation.

**TECHNOLOGIES:** RISANASARDA R&S is involved in research activity in collaboration with Italian Universities in the fields of bioremediation i.e. site specific applications, selection of hydrocarbon degrading bacterial strains. RISANASARDA R&S applies the most recent biological technologies together with engineering technical support and specific instrumentation for process monitoring.



### **Services - Offer of Bioremediation of contaminated sites**

**DETAILED DESCRIPTION:** Several microorganisms can favour the remediation of hydrocarbon contaminated matrices owing to different biochemical mechanisms which are able to mineralize or cometabolically transform the pollutants. Microorganisms have developed enzymatic systems able to attack every chemical in the Earth. In the last years, a growing interest have been observed in the use of these abilities for remediation of contaminated sites because of the grater environmental acceptability and lower costs of this type of approach in comparison with chemico-physical technology. Bioremediation techniques consist in stimulation of the activities of the natural occurring bacteria by removing factors that limit biodegradation (i.e. oxygen deliver, nutrient, pH, temperature) or by adding specialized bacteria isolates from different sources.

**MAIN ADVANTADGES / BENEFITS:** Innovative methods applied to soil remediation.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested): stimulation of the activities of the natural occurring bacteria by removing factors that limit biodegradation (i.e. oxygen deliver, nutrient, pH, temperature) or by adding specialized bacteria isolates from different sources.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** Partners dealing with contaminated sites and interested in new techniques and processes developed.



## Rising s.r.l.

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Address	Via Palazzetti,5 40068 - S.Lazzaro di Savena (BO)	<b>Italy</b>
Phone	+39 051 790082	
Email	marinella.maurizzi@isolaverde-pegus.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Marinella Maurizzi</b>
Position	Copartner

Areas of activity	Type of co-operation	
» Pellets	Licence agreement	» Offer
» Energy saving and efficiency	Technical Co-operation	»
» Energy conversion	Technological Co-operation	» Offer
» Heating equipments	Joint research project	» Request
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: Company in which works a University engineering group and a technical group with different know how in Stirling motor and pellet heating

FIELD OF ACTIVITIES: Search in domestic cogeneration

MAIN PRODUCTS/SERVICES: Pellet cogeneration heating boiler that produce hot water, heating and electricity

TECHNOLOGIES: Pellet heating with a Stirling motor

### Other - I'm searching a pellet heating manufacturer or a company who is interested in new renewable energy willing to commercialize this system in different c

DETAILED DESCRIPTION: Domestic Co-generation pellet heating boiler (hot water, heating and electricity)

MAIN ADVANTADGES / BENEFITS: with pellet heating we use a recycling fuel with a very small production of CO2 (cleaning energy). People can have in the same time hot water, heating and electricity paying just for heating, and they save the money for electricity and hot water. Cost reduction, low environmental impact, utilization of renewable energy.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): The engine-equipped co-generation system is capable of utilizing thermal energy, without waste, and offering high thermal usage efficiency at every stage of the thermal energy utilization process. The system has a Stirling motor in the combustion chamber and with 28 KWH Heating boiler can guarantee 4 KWH electricity.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Pellet Heating boiler productor or a Company that is interested in new renewable energy

## Risorse Solari

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Address	Via Piave 27 21040 - Lozza	<b>Italy</b>
Phone	+39 0332 264579	
Email	info@risorsesolari.com	
www	www.risorsesolari.com	
Organisation Type	Company	

### Contact Person

Name	<b>Sig. Santolo Saporito</b>
Position	Entrepreneur

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer
» Energy saving and efficiency	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	»
	Manufacturing agreement	» Request
	Commercial agreement	»
	Financial agreement	» Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

RISORSE SOLARI is a manufacturer of thermal solar collectors of new generation. The activity was started in 1975 with the production of the first solar collector of its own construction. Alongside the increased experience in the conventional heating, providing customers with equipment and latest technologies, in order to achieve greater energy savings.

#### FIELD OF ACTIVITIES:

Production of thermal solar collectors.

#### MAIN PRODUCTS/SERVICES:

Thermal solar collectors.

#### TECHNOLOGIES:

RISORSE SOLARI has developed a thermal solar collectors with a new technology, characterized by the use of vacuum-packed components, with a good efficiency and a very low price.

**Manufacturing** - The company is looking for financial partners to start up production, or companies interested in producing the collector with a licence agreement

DETAILED DESCRIPTION:



The new solar collector is easy and fast to assemble. It consists of only three elements: two “half-shells” and the absorber, that compose the whole solar collector. The usual insulating material is replaced by the vacuum-packed zone.

**MAIN ADVANTADGES / BENEFITS:**

The main innovative aspects of the new solar collector are:

- It's very competitive if compared with the glass collector
- It's unbreakable
- It's very easy to install.

The availability of two installation solutions makes the collector more attractive for clients and 'retrofit' installation designers as well as for new property designs.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The originals measures are 190x100 and the weight is 25 Kg. Unlike the solar collectors already on the market, the new collector uses all the irradiation of the occupied surface.

The transparent covering can be made of thermoformed compact polycarbonate both glass and cell-like polycarbonate sheets easy fitting for each kind of roof.

An Italian patent was granted in 2009; an European extension has been required.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Financial partners to start up production, or companies interested in producing the collector on their own with a licence agreement.

## Romagna Innovazione srl (shortened: Rinnova)

Page: **381**

Address	C.so Garibaldi 49 47121 - Forlì	<b>Italy</b>
Phone	+39 0543 32087	
Email	matteo.campana@romagnainnovazione.it	
www	www.romagnainnovazione.it	
Organisation Type	Company	

### Contact Person

Name	<b>Stefano Torelli</b>
Position	Project Manager

Areas of activity	Type of co-operation	
» Treatment of wastewater and water for domestic consumptions	Licence agreement	»
» Saving water in intensive industrial manufacturing	Technical Co-operation	» Offer/Request
» Techniques for the re-use of water	Technological Co-operation	» Offer/Request
» Cooling and ventilation equipment	Joint research project	» Offer/Request
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Manufacturing agreement	»
» Sustainable mobility electric vehicles	Commercial agreement	» Offer/Request
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility	Financial agreement	» Offer/Request
» Energy from waste and biomass		
» Biomass, bio-gas		
» Solar energy		
» Wind energy		
» Water energy		
» Energy saving and efficiency		
» Thermal disposals		
» Energy conversion		
» Secondary fuels		
» Building materials		
» Heating equipments		
» Control/metering equipments for heating in buildings		
» Other Energy topics		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Rinnova is a non-profit organisation (within the meaning of European Recommendation) and also a SME of engineering of the innovation.

Rinnova has been recently involved in an innovative project for the design and prototypization of a set of innovative wind turbine. It has successfully coordinating and managed an interdisciplinary group of engineers in



the field of fluid-dynamics, mechanics, and electronics.

Rlnnova has also successfully implemented an ambitious project focused on sustainable mobility for the public transport organization of Cesena ad Forlì. As result of this project a sustainable urban mobility plan, based on a photovoltaic installations and electric-bus, has been successfully developed.

The company has also develop a set of feasibility studies on different fields of renewable energy related innovative techniques, such as solar cooling, and energy efficiency in buildings.

#### FIELD OF ACTIVITIES:

Rlnnova takes advantage of the expertise of the University of Bologna, and in particular of its Scientific and Technological faculties in Forlì and in Cesena. It can therefore display cross-competences as regards:

- Sustainable mobility electric vehicles
- Solar Energy
- Wind Energy
- Energy saving and efficiency
- Solar Cooling
- Electronics
- Computer Science
- Telecommunications
- Automation and Control
- Bioengineering
- Mechanical design and rapid prototyping
- Mechanics of solid and fluid materials

#### MAIN PRODUCTS/SERVICES:

Aimed at supporting the competitiveness of enterprises and public administration through the implementation of the technological innovations, Rlnnova offers a complete set of services in the area of the engineering of the innovation, such as:

- Technology transfer
- Scouting of technologies and solutions
- Market analysis
- Assessment of procedures, technologies, products and services
- Feasibility studies, planning and projects of innovative products and services
- Development of prototypes
- Engineering or re- engineering of procedures
- Project management

For all these services Rlnnova guarantees the respect of the norms concerning confidentiality, intellectual property, time, expenses, procedures and result quality.

### **Services - Any public or private organizations interested in implementing project in the fields of renewable energy sources, sustainable mobility, energy efficie**

#### DETAILED DESCRIPTION & MAIN ADVANTADGES / BENEFITS:

Rlnnova main strong points are the multidisciplinary approach to the planning and the development of innovative solutions focussed on the customer's demands, the capability of integrating the academic knowledge with the best technologies and solutions available on the market, the competence in managing the introduction of new solutions in the company procedures. Rlnnova takes advantage of the expertise of the University of



Bologna, and in particular of its Scientific and Technological faculties in Forlì and in Cesena. It can therefore display a set of cross-competences.

**TECHNICAL SPECIFICATIONS:**

RInnova is now carrying out projects in the various field of energy management and distribution, renewable energy sources:

RInnova has been recently involved in an innovative project for the design and prototypization of a set of innovative wind turbines. It has successfully coordinated and managed an interdisciplinary group of engineers in the field of fluid-dynamics, mechanics, and electronics.

RInnova has also successfully implemented an ambitious project focused on sustainable mobility for the public transport organization of Cesena ad Forlì. As result of this project a sustainable urban mobility plan, based on a photovoltaic installations and electric-bus, has been successfully implemented. Moreover, RInnova is actually involved in the definition of the energetic strategic plan (PEC) of Cesena district.

The company has also develop a set of feasibility studies on different fields of renewable energy related innovative techniques, such as solar cooling, and energy efficiency in buildings.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Any public organizations involved in

- Renewable energy sources
- Energy-efficient transport
- Energy efficiency



## Rovatti A. & Figli Pompe S.p.a.

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Phone	+390522665000	
Email	info@rovatti.it	
www	www.rovatti.com	
Organisation Type	Company	

### Contact Person

Name	<b>Samuele Torelli</b>
Position	Sales Manager Italy

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Saving water in intensive industrial manufacturing	Technical Co-operation »
» Cooling and ventilation equipment	Technological Co-operation »
» Biomass, bio-gas	Joint research project »
» Water energy	Manufacturing agreement »
» Thermal disposals	Commercial agreement » Offer/Request
» Heating equipments	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

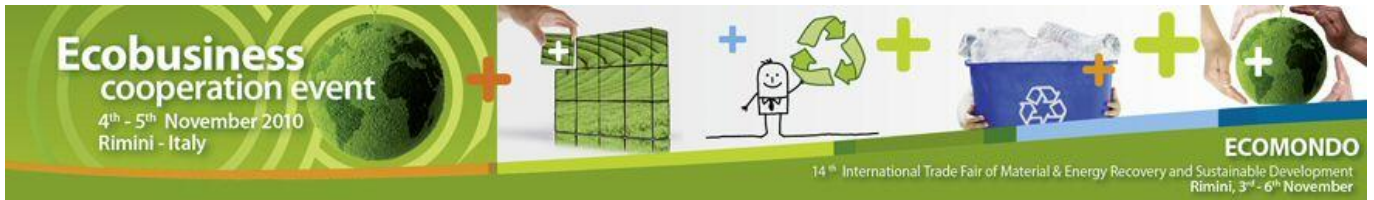
Since 1953, the name of Rovatti Pompe has been synonymous with the production of high quality water pumps. Over the years the company has diversified its activity from the production of pumps for agricultural applications to include pumps for industry, drainage and sewage. The company policy is to guarantee quality and compliance of Rovatti products to the specific requirements of UNI-EN ISO 9001/2008 including the design, manufacture, sale and after sales service support.

#### FIELD OF ACTIVITIES:

Rovatti's production covers a wide range of centrifugal pumps for surface and submersible installations to satisfy a multitude of applications. Rovatti pumps are designed and manufactured for potable and industrial water supplies, agricultural water supplies and irrigation, domestic and industrial sewage and waste, drainage, washing, boosting, fire fighting and artificial snow making, to name but a few.

#### MAIN PRODUCTS/SERVICES:

Green Line: is our wide range of centrifugal pumps for clean water. Suitable for civil, agricultural and industrial applications. Available in two versions: SURFACE (horizontal, bareshaft and flanged, single and multistage pumps) - SUBMERSIBLE (borehole electric pumps, vertical lineshaft pumps driven by electric motors, diesel engines and tractors).



Orange Line: is our wide range of centrifugal pumps designed for waste water with some solids in suspension. Suitable for industrial, civil and agricultural applications. Available in three versions: HORIZONTAL SINGLE-STAGE BARESHAFT AND FLANGED - SELF PRIMING - CLOSE COUPLED, ELECTRIC SUBMERSIBLE.

Extreme: is our wide range of pumps engineered and designed for efficient and reliable pumping even of aggressive water and corrosive liquids in residential, municipal and industrial applications. Available in different versions: SUBMERSIBLE (borehole electric pumps, vertical lineshaft pumps driven by electric motors) - SURFACE (vertical multistage electric pumps).

**TECHNOLOGIES:**

To produce innovatively designed, high efficiency, long life, environmentally friendly pumps with reduced energy requirements. This philosophy is fully linked to and the main driver of Rovatti's manufacturing strategy, which incorporates a vigorous and on-going programme of research and development. Technological innovation, advanced performance and accelerated wear testing are integral in the production of every Rovatti pump. Rovatti Pompe is a highly motivated flexible organisation with unrivalled experience in the design, manufacture and marketing of reliable centrifugal pumps for the world.

**Supplier - We are looking for partners for possible future business.**

DETAILED DESCRIPTION: Manufacturer of water and waste-water centrifugal pumps

**MAIN ADVANTADGES / BENEFITS:**

Hi-efficiency products, microcasted stainless steel products.

## SA.M.E. srl

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Address	VIA FERRIERA 68 06089 - TORGIANO	<b>Italy</b>
Phone	0755996528	
Email	info@samesrl.com	
www	www.samesrl.com	
Organisation Type	Company	

### Contact Person

Name	<b>FILIPPO SARGENTINI</b>
Position	GENERAL MANAGER

Areas of activity	Type of co-operation
» Eco-design and eco-compatible materials	Licence agreement »
» Energy saving and efficiency	Technical Co-operation » Offer
» Building materials	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

S.A.M.E. Srl is an Italian leading firm in the production and sale of reflective thermal-acoustic insulating materials

#### FIELD OF ACTIVITIES:

Thermal-acoustic insulating for buildings

#### MAIN PRODUCTS/SERVICES:

**THERMOLIVING 3B-** Acoustic insulation material for floor providing an excellent reduction in the footstep noise

**EXTERNAL REFLECTIVE SYSTEM-** The patented external coating system E.R.S. by S.A.M.E., unlike the traditional systems, is based on the use of reflective insulations and of a wide range of shockproof finishes

#### TECHNOLOGIES:

### Manufacturing - SALE OF REFLECTIVE INSULATION

#### DETAILED DESCRIPTION:

The patented external coating system E.R.S. by S.A.M.E., unlike the traditional systems, is based on the use of reflective insulations and of a wide range of shockproof finishes. Furthermore, it can be installed both on vertical (walls) and on horizontal surfaces (flat roofs).

The installation consists in applying continuous parallel series of especially shaped stanchions, inserting in the stanchions up to three layers of reflective insulation. The number of layers to be inserted varies depending on

the limits established in the different climate zones.

**MAIN ADVANTAGES / BENEFITS:**

**MAINTENANCE:** The traditional coatings are subject to frequent damages because of weather events (hail, wind), acts of vandalism, accidental shocks. They consequently require frequent maintenance which is not necessary when using a reflective coating, because its rigid covering protects it from the possible damages above described. Thanks to such characteristic the system by S.A.M.E. features a significantly longer product life, with a consequent large recovery of the initial investment.

- **WIDE CHOICE OF FINISHING:** the structure of the stanchions allows the installation of several different exterior finishing (such as magnesium oxide, cement slabs, reconstructed stone panels, wood, aluminium, grès, etc.)
- **HIGH MECHANICAL RESISTANCE:** the external rigid coating assure the strength of the system.
- **EASY TO INSTALL:** the dry installation system makes the installation easier with the further advantage of being able to operate even in unfavourable climate conditions.
- **NO CONDENSATION:** the air cavities enable the drainage of condensation.
- **INSULATION INSTALLED IN CONTINUOUS UNITS:** the product can be installed without junctions.
- **LONG PRODUCT LIFE:** every component of the system is conceived to assure performance stability over the long term; when it is necessary to inspect the underlying structures it will be possible to remove the single panels easily.
- **MADE FROM RECYCLED MATERIALS:** the stanchions and the insulation are mostly made from recycled materials
- **NO PLASTER DEMOLITION:** the product does not require the demolition of the deteriorated plaster for its installation, thus reducing the consequent costs for disposal and reconstruction. In order to install a traditional coating on a "powdery" support it is necessary to hydroclean the surface thus allowing the glues to properly adhere. When using the external reflective coating by S.A.M.E. the conditions of the surface are irrelevant.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Certified thermal resistance:  $R=2,254 \text{ m}^2 \text{ K/W}$  ( $U=0,443 \text{ W/m}^2\text{K}$ )

The data evaluation was carried out in compliance with the UNI EN ISO 6946, UNI EN ISO 10355 and UNI EN ISO 10456 regulations, considering a 97mm stanchion, a single layer of ISOLIVING and two 44mm air cavities.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

We are interesting to meet potential distributors of our reflective materials



## SA.RO srl

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Email	info@sa.ro.it	
www	www.sa.ro.it	
Organisation Type	Company	

### Contact Person

Name	<b>Rosario Curatolo</b>
Position	CEO

Areas of activity	Type of co-operation	
» End products made with salvaged material	Licence agreement	» Offer
» Wastes processing and their utilization as secondary raw materials	Technical Co-operation	»
	Technological Co-operation	»
» Energy saving and efficiency	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

SARO srl was founded by current CEO Rosario Curatolo after years spent in the coal, cement and minerals industries gaining experience related to problems caused by abrasion.

Based on the technologies and methods of the time SARO initially used different steels to combat abrasion. As SARO is a company that always seeks to stay at the forefront of technological developments alternative products were introduced and implemented. In the 16 years that have passed since SARO's inception these have included products using materials such as polyurethanes and hard metal sheets. At present SARO believes sintered ceramics are most appropriate solution for our customers due to the high anti-abrasion qualities and cost effectiveness and as such this material at the heart of the SARO product range.

By using the best products currently available and continually seeking to develop new anti-abrasion solutions SARO has been able to solve abrasion and wear related problems for a wide range of industries including cement, mining, ceramics, chemical and in recent years an increasing number of companies that specialise in recycling of materials such as wood and glass.

As a result today SARO can boast an extensive knowledge and understanding of abrasion and wear related problems and is able offer a complete service for companies suffering these problem by examining, analysing and providing the solution.

#### FIELD OF ACTIVITIES:

Recycling industries - e.g. Wood, glass and plastics



Industrial Plants - e.g. Cement, coal and minerals  
Pneumatic Transport

**MAIN PRODUCTS/SERVICES:**

ARO's high performance anti-abrasion and wear resistant coatings consist of the products below. All the products and services are tailored to specific customer requirements.

**SAROSINT MOSAIC**

A mosaic of Hexagonal or Square pieces of Sarosint vary-ing in size provide a thin but highly protective layer against abrasion. Sarosint Mosaic is a simple but extremely versatile design that can be installed on both complex and large machines with minimal disruption.

**SAROSINT CERAMIC**

A version of Sarosint that can be created into different shapes dependent upon the customer's requirements. The ability to create different shapes enables SARO to offer a tailor-made solution for a specific machine.

**RESINAL CERAMIC**

Micro spheres of Sarosint are mixed with Saroplast T250 A/B to produce a hard setting substance that can be applied to any surface to provide it with the protective qualities of Sarosint. It is ideal for areas where other Sarosint products cannot provide protection. It can also be used to provide repairs to small areas that have been damaged.

**SAROSINT SEGMENTS**

Rings of Sarosint are joined together to create pipes that are ideal for Pneumatic transport and protecting the outside of pipes or tubes that are exposed to abrasion. When used for Pneumatic transport they are reinforced with cement and 3mm of steel to provide extra stability. Sarosint Segments are produced to be straight (trunks) or with various degrees of curvature (curves).

**SAROSINT RUBBER PIPES**

Developed in conjunction with Parker, Sarosint Rubber Pipes are an innovative solution to Pneumatic transport abrasion is-sues. NR/BR black rubber pipes are lined with Hexagonal Sarosint Mosaic. The use of rubber enables the pipes to be highly flexible and since it is also lighter than steel it can be installed in areas that are usually too tight for Pneumatic transport. NR/BR black rubber has high anti abrasion qualities and is reinforced with a continuous steel spiral to ensure that the diameter of the pipe is maintained no matter how it's bent. Strips of copper also run down the length of the rubber pipes to prevent a build up of electro static. Sarosint Rubber Pipes are typically heat resistant up to 70°C but a high temperature version is also available that resists heat up to 164°C.

**SAROSINT RUBBER PANELS**

Sarosint Rubber Panels are designed to protect areas susceptible to shock abrasion. By embedding Sarosint into panels of NR/BR black rubber SARO have developed a product that provides both excep-tional shock and abrasion resistance. Noise pollution is also reduced by 80% when compared to steel. Sarosint Rubber Panels are typically heat resistant up to 70°C but a high temperature version is also available that resists heat up to 164°C.

**SAROSINT BELT SCRAPER**

An alternative to traditional steel scrapers that will not damage a conveyer belt. This is achieved by embedding





Sarosint into polyurethane bars that unlike steel do not create sharp edges when damaged. The polyurethane is reinforced with a steel core for extra strength and the porosity 0 of Sarosint also means that nothing sticks to Belt Scraper resulting in a more effective cleaning of the conveyor belt.

Sarosint Belt Scrapers are available in 3 different forms:

**Standard Sarosint Belt Scraper:**

A singular polyurethane bar embedded with Sarosint that comes in variable sizes to fit most conveyor belts worldwide.

Standard Sarosint Belt Scrapers are suitable for conveyor belts that have an even surface.

**Modular Sarosint Belt Scraper:**

The Modular Sarosint Belt Scraper is an evolution of Standard Sarosint Belt Scraper as it allows conveyor belts with uneven surfaces to be cleaned.

This is made possible by using smaller 'modular' pieces of Sarosint Belt Scraper rather than one singular piece. The result is that the modular pieces of the Sarosint Belt Scraper can move up and down depending on the surface of the conveyor belt and are therefore able to clean uneven surfaces.

Additionally individual modules of the Sarosint Belt Scraper can be replaced if damaged as opposed to having to replace the whole unit.

**Reversible Modular Sarosint Belt Scraper:**

This is the final stage in the evolution of the Sarosint Belt Scraper product.

The Reversible Modular Sarosint Belt Scraper has all the same features as the Modular Sarosint Belt Scraper but it's herringbone design also offers the ability to change the direction of which the conveyor belt is working without needing to change the position of the Sarosint Belt Scraper.

#### TECHNOLOGIES:

Sarosint is an extremely durable ceramic with a coefficient of mineral hardness (upto 9 mohs) only second to diamond - it's this unique characteristic that enables SARO to solve problems caused by abrasion.

Sarosint is a product designed using the modern technologies of sintering atomised powder consisting of aluminium oxide and alpha. It's this special production process that creates a material of extreme hardness and a particularly compact structure (porosity 0). These features allow the resistance of the most severe wear and chemical attack (except hydrofluoric acid). Also it reduces packing and oxidation issues.

**Distribution - SARO is looking for agents, dealers or potential partnerships to grow our international portfolio.**

SARO is offering our product range (please see previous sections for more details) to any prospective dealers, agents or businesses interested in a potential partnership agreement.

**MAIN ADVANTADGES / BENEFITS:** Customers of SARO see a significant reduction in costs and waste associated with maintenance, repair and replacement of machinery.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):

Please visit [www.sa.ro.it](http://www.sa.ro.it) for more technical information



## SARTORI AMBIENTE S.R.L.

Page: **391**

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Phone	+39 (0) 464 531643	
Email	info@sartori-ambiente.com	
www	www.sartori-ambiente.com	
Organisation Type	Company	

### Contact Person

Name	<b>Ludovica Casolla</b>
Position	commercial assistant

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Offer
» Waste collection	Technical Co-operation	»
» Waste treatment - plants and technologies	Technological Co-operation	»
» Eco-design and eco-compatible materials	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Sartori Ambiente's experience in the waste and environment sector dates back to 1996. The headquarter is located in Arco, Northern Italy.

Sartori Ambiente is focused on supplying systems and containers for waste segregation and waste management.

#### FIELD OF ACTIVITIES:

Sartori Ambiente produces and supplies kitchen caddies and kerbside containers for separate collection of waste, compost bins and wheeled bins

#### MAIN PRODUCTS/SERVICES:

Sartori Ambiente manufactures caddies for food waste collection, vented caddies, with a wide range of capacities of containers for collecting dry waste e.g. paper, glass, plastic and cans for recycling and wet waste e.g. kitchen food waste and garden residual waste.

#### TECHNOLOGIES:

All products we devise are designed to be:

- Innovative in terms of ergonomics, efficiency and storage space
- o stackable or with wall mounting bracket
- o easy handling (recesses on the lid and hand grip on the base)
- o lid locking mechanism and round edges for holding a sack



- Innovative in aesthetic design
  - o Modern and pleasing styles
  - o Wide range of colours to choose from
- Innovative in choice of materials and accessories
  - o hot foil printing, IML (photo injection moulded label)
  - o transponder (microchip) application, barcode tagging, serial numbers
  - o Virgin or recycled material content options for production

### **Distribution - Collaborate with foreign distributors**

#### **DETAILED DESCRIPTION:**

we are looking for distributors in foreign countries

#### **MAIN ADVANTADGES / BENEFITS:**

spreading of waste segregation and collection systems

#### **TECHNICAL SPECIFICATIONS :**

Systems and containers by Sartori Ambiente are suitable either for door-to-door collection schemes or for bring bank systems for all types of domestic waste.

Sartori Ambiente manufactures caddies for food waste collection, vented caddies, with a wide range of capacities of containers for collecting dry waste e.g. paper, glass, plastic and cans for recycling and wet waste e.g. kitchen food waste and garden residual waste

#### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

the partner should understand our philosophy, products and management

## SCOLARI SRL

Page: **393**

Address	VIA PADANA SUPERIORE 178 25035 – OSPITALETTO (BS)	<b>Italy</b>
Phone	0306848012	
Email	commerciale@scolarisrl.com	
www	www.scolarisrl.com	
Organisation Type	Company	

### Contact Person

Name	<b>Cristina Raccagni</b>
Position	

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	»
» Treatment of wastewater and water for domestic consumptions	Technical Co-operation	»
» Energy from waste and biomass	Technological Co-operation	»
» Wastes processing and their utilization as secondary raw materials	Joint research project	»
» Biomass, bio-gas	Manufacturing agreement	»
» Pellets	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

FIELD OF ACTIVITIES:  
DRYING AND COMPOSTING PLANTS

MAIN PRODUCTS/SERVICES:

DRYING PLANT

series A - mechanic removal

series T - movable conveyors

series LFV - fluid vibrating bed

series VERTICAL for cereals

series C - drawers

series ES - static

COMPOSTING PLANTS

series MR - movers

COOLING PLANTS

series 1T - movable conveyor

TOASTING PLANTS

series TC

## Seneca Srl

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Email	info@senecasrl.com	
www	www.senecasrl.com	
Organisation Type	Company	

### Contact Person

Name	<b>Marilena Cascone</b>
Position	Commercial Director

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	»
	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

**DETAILED DESCRIPTION:**Our process permits the micro-inonization, that multiples for 60.000 the change area between the active product and the air, working large volumes through small quantities of product. We use ultrasonic technique the among the dry diffusion.

**MAIN ADVANTADGES / BENEFITS:**The ultrasonic technology offers many advantages: treatment of small and large volumes, regular propagation, homogeneous mixture, the multiplication of the exchange area between the product and the atmosphere service very simple, no noise moderate cost, low maintenance.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):** The traditional methods of atmosphere treatment (electric diffusers, lamps, aereosol ...) operate through warming or burning of a product that moved release liquid particles.

This procedure denatures the widespread product and arouses volatile compounds that disperse in the air in way harmful for the humans and the environment. This is a "wet spread", in which the air treatment is ineffective because the liquid particles fall on the ground very quickly limiting the remainder process.

The automatic nebulizers however changes the active or fragrant liquid compounds of micro volatile dry particles (gas); in this way there is a "wet dry" that permits to the particles to spread in natural manner in the air.

Seneca, developing this revolutionary technology permits:

- disinfection (hospital rooms, nursing homes for elderly people, public place, trains, buses, planes, ect --- combating the proliferation of bacteria, nosocomial diseases)
- perfume, purify, repulsion and / or destruction of insects (Flies, mosquitoes, wasps, fleas, bedbugs, etc ..., Anti-red fever, malaria, West Nile)





- neutralization of odors in industrial sites, commercial, public or domestic (farmas, landfills, factories, gyny, locker rooms, toilets, garages, kitchen scraps, covered parking,...)
- distributors scented environment (habitats, shops, halls, airport, stadiums, hotel, offices...)

### Services - looking for companies that provide goods and services

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- distributors scented environment (habitats, shops, halls, airport, stadiums, hotel, offices...)

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**Companies that provide goods and services (maintenance services, rental services, office equipment/fitness center/hair shops, disinfection, purify, repulsion and / or destruction of insects, neutralization of odors, distributors scented environment).

### Services -

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- distributors scented environment (habitats, shops, halls, airport, stadiums, hotel, offices...)

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Companies that provide goods and services (maintenance services, rental services, office equipment/fitness center/hair shops, disinfection, purify, repulsion and / or destruction of insects, neutralization of odors, distributors scented environment).

## Sepra S.r.l.

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Email	info@sepra.it	
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Organisation Type	Company	

### Contact Person

Name	<b>Giancarlo Tanzi</b>
Position	Technical Manager

Areas of activity	Type of co-operation
» Saving water in intensive industrial manufacturing	Licence agreement »
» Techniques for the re-use of water	Technical Co-operation » Offer/Request
» Biomass, bio-gas	Technological Co-operation » Offer/Request
	Joint research project » Request
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

25 years experience in membrane separation and gas/liquid transfer

#### FIELD OF ACTIVITIES:

Waste water treatment, landfill leachate, special liquid waste treatment, energy from biomasses, anaerobic digestion

#### MAIN PRODUCTS/SERVICES:

Components, packages, engineering. Membrane separation, injectors for gas/liquid transfer, ozone generators

#### TECHNOLOGIES:

Membrane bioreactor with external membranes and air-inside technology, membrane bioreactor with submerged membranes, landfill leachate treatment, nitrogen reduction in digestate from anaerobic treatment.

### Supplier - Exchange information on membrane based technologies for difficult liquid waste

**DETAILED DESCRIPTION:** Complete membrane treatment processes (from ultrafiltration to reverse osmosis) for highly contaminated fluids (leachate, digestate, etc.). A combination of membrane based biological treatment system and reverse osmosis concentration allows to reduce nitrogen content and overall volume in waste from anaerobic treatment



MAIN ADVANTADGES/BENEFITS: Low energy and chemical consumption

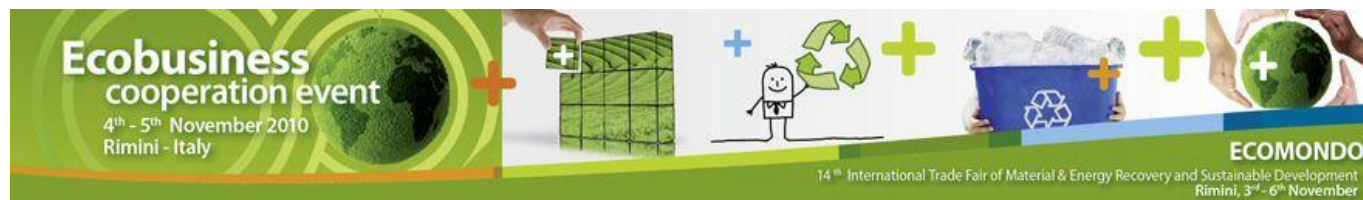
TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

biological nitrification/denitrification process, ultrafiltration with air?inside technology, reverse osmosis

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

OEMs and contractors involved with waste water projects

Farmers and any other partner interested in waste to energy projects where low nitrogen is a key issue.



## Serint Group Italia Srl

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www	www.serintgroup.com	
Organisation Type	Company	

### Contact Person

Name	<b>Enzo Mataloni</b>
Position	

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Eco-design and eco-compatible materials	Technical Co-operation »
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Technological Co-operation »
» Sustainable mobility electric vehicles	Joint research project » Offer/Request
» Energy saving and efficiency	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement » Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Serint Group was founded in 1996 by a group of friends with the idea of forming a modern company for research, projects, consultancy and services able to be a unique reference for "Integrated Services" for companies, associations and public administrations. Our company has strong roots in the territory (operating also on a National level) focusing on professionalism and on the seriousness of our approach. We have also taken on the challenge of an Eco-Office which aims at reducing the environmental impact of our activities with the goal of offering services with zero impact.

This project has received a Prize for the best sustainable initiative in the 8th edition of Sodalitas Social award (2010).

Besides working closely with small-to-medium companies we also work for important clients such as the Ferrovie dello Stato (National Railways), Italian Post Office and Italian Motorways.

#### FIELD OF ACTIVITIES:

Research & Projects: dealing with important innovative projects on themes such as Social responsibility, planning and sustainable management of landscape and territory, definition of standards of evaluation and discipline of services in reception and tourism, "Mystery Client" services or "Mystery Guest" to evaluate brands, models, service or corrective lists, programming and supply of environmental and civic education towards aspects such as social responsibility, sustainability and other related themes.

Management Systems: Consultancy for management systems in the widest possible sense with activities



including: Quality (ISO 9001 and other schemes sector) and Environment (ISO 14001, EN 16001, EMAS), Health and Safety in the workplace (OHSAS18001) and Information safety (ISO 27001, ISO 20000), Social Accountability (SA8000) in the field of Company Social Responsibility.

Medical Services, Health and Safety in the workplace: This service satisfies legal requirements for health and safety in the workplace, Hygiene for food products in respect of HACCP.

Training: This area specialises in training professionals. All course programmes are aimed at developing individual potential and increasing skills. Serint Group uses its experience to prepare tailor-made programmes.

Corporate Governance and Risk Management:

Working on a variety of themes such as: developing organisational models, management and control according to Italian D.Lgs. 231/01, Analysis and evaluation of risk (Risk Assessment), evaluation of data integrity in accordance with legal specifications and regulations, Safety of information and risks of computer networks, Organisational models for information technology and its safety (ISO27001, ISO20000, ITIL).

MAIN PRODUCTS/SERVICES:

Consultancy for the development of organisational systems for energy (in compliance with EN 16001) and for improvement programmes for energy use by companies. Planning and delivery of programmes for environmental education and civic education aimed at aspects such as Social Responsibility, sustainability and other related themes.

**Consulting - We are interested in developing projects regarding the sustainability and efficiency of energy use, both for private companies, for Local authorities**

DETAILED DESCRIPTION:

We are interested in developing projects regarding the sustainability and efficiency of energy use, both for private companies, for Local authorities and for Institutions of higher learning covering awareness and environmental education.

MAIN ADVANTADGES / BENEFITS:

The projects for energy sustainability and efficiency aim to support private companies and local associations to favour the reduction of cost and CO2 produced. In the case of High Schools the aim is to raise awareness to improve the culture of sustainability and environmental education in order to create a society that in the future will approach daily life with sustainable behaviour.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

At present specific technological solutions have not been found, these should be evaluated on a case by case basis depending on the project that is to be developed.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Suppliers of technical solutions, other companies who have experimented projects for the environmental sustainability of energy both for private companies, local associations and Institutions of higher learning



## SERMAN ENERGY Rsl

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www	www.sermansrl.it	
Organisation Type	Company	

### Contact Person

Name	<b>Perluigi De Cesero</b>
Position	Owner

Areas of activity	Type of co-operation	
» Water energy	Licence agreement	»
	Technical Co-operation	» Offer
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

FIELD OF ACTIVITIES: Sitem and plants for the production of clean and high effcenty energy from hydropower.

**Manufacturing** - Sitem and plants for the production of clean and high effcenty energy from hidropower.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: We are looking for partners to supply hydropower plants.





## SICURAL S.R.L. CONSORTILE

Page: **402**

Address	VIA DISMANO 2855 47522 - CESENA	<b>Italy</b>
Phone	0547 377303	
Email	szuccherelli@orogel.it	
www	www.sicural.it (non ancora attivo)	
Organisation Type	Other	

### Contact Person

Name	<b>SILVIA ZUCCHERELLI</b>
Position	Laboratory Director

Areas of activity	Type of co-operation	
» Other Energy topics	Licence agreement	»
	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

SICURAL Laboratory has been established in January 2010 from the fusion of two important activities in the section of fruit&vegetable business in the Cesena area : Laboratory of Consorzio Fruttadoro di Romagna and the Laboratory Agri.Lab Trade Cesena. It holds 21 Companies and the major shareholders are : Gruppo Orogel and Gruppo di esportatori EUR.OP. Fruit.

From the Laboratory of Consorzio Fruttadoro it has inherited the accreditation of SINAL – ACCREDIA n.0126 obtained in 1996 that includes a range of analysis and implies that the laboratory is subject to external and strict controls to guarantee the maximum accuracy and reliability of the analytical results (the list can be consulted in the web site of ACCREDIA) The current accreditation has been re-confirmed and expanded to new and more sophisticated analysis for the determination of pesticide residues on fruit and vegetable matrices. The laboratory avails a multi-year experience in the cultivation of fruit and vegetables gained over years and thanks to the ongoing relationship with the principle actors of the agricultural chain (farmers & exporters). The SICURAL Laboratory also holds expertise, equipment and protocols tracing all the necessary microbiological analysis for industrial hygiene checks, food safety (HACCP) and in the respect for the ecological and agronomic systems.

#### FIELD OF ACTIVITIES:

The activity of the laboratory is divided into four areas: Organic Chemistry, Inorganic Chemistry, Microbiology, Molecular Biology and Chemistry.

Sicural performs a wide range of analytical services for the agri-food sector and matrices such as water, soil, sludge, environmental swabs, fruit & vegetable and in general on prepared food It also performs biochemical



and molecular analysis to detect the presence of allergens and GMOs in food for human consumption-

**MAIN PRODUCTS/SERVICES:**

We do analysis of contaminants in food and environment. The main analysis carried out are: pesticide residues on fruit and vegetable matrices, chemical parameters, physical and microbiological on water, chemical and physical parameters on soil chemical and microbiological parameters of food products for human consumption, microbiological parameters on environmental swabs.

Sicural aims at a constant activity of research and development in analytical analysis applied to food safety, focusing on innovation and advanced technology with cooperations of the most influential National and International Research Institutes to improve customer support, which is increasingly demanding in terms of safety on food and environment.

**TECHNOLOGIES:**

The Laboratory uses the most advanced protocols and the latest analytical technologies. For pesticide residues and chemical analysis, some of the instruments used are: LC / MS / MS, GC, HPLC, ion chromatography. For microbiological, biochemical and molecular analysis we use ELISA and PCR techniques..

**Research - Looking for Farms, Producers Associations, Research Institutes, Universities, Industries searching for or proposing solutions for the recovery of waste**

**DETAILED DESCRIPTION:**

- Analysis for the determination of chemical physical and biological parameters of wastewater coming from industrial or agricultural processing facilities. Development of analytical profiles to assess and eventually re-use wastewater in the full respect of the environment and health protection. -
- Analysis of waste material from the agro-processing industries to the of purpose of self-control (HACCP) and eventual re-use as compost.
- Analysis on compost (from sewage sludge, waste from maintenance of green areas, and other biomass) at different stages of maturation: microbiological and chemical parameters to assess whether the material under test can be used as fertilizer for farming techniques defined as "sustainable."

**MAIN ADVANTADGES / BENEFITS:**

- Re-use of by products from industrial processing and farming
- Promote development of new composting centers
- Promote development of "sustainable" farming

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Farms, Producers Associations, Research Institutes, Universities, Industries searching for or proposing solutions for the recovery of waste water, sludges, compost.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Experience in the agro-industrial sector and knowledge of issues related to environmental protection.

## SIMPEC SRL

Page: **404**

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www	www.simpec.it	
Organisation Type	Company	

### Contact Person

Name	<b>ANDREA BOTTINI</b>
Position	EXPORT MANAGER AND BUSINESS DEVELOPMENT

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Saving water in intensive industrial manufacturing	Technical Co-operation » Offer/Request
» Techniques for the re-use of water	Technological Co-operation » Offer/Request
» Other	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Simpec works in the design, construction, installation and service of industrial water and wastewater treatment plants. Simpec works for all the industries that use and consume water in their different production processes. Simpec realizes also plants for landfills (leachate treatment), plants for zootechnical effluents and for digestate treatment coming from biogas production. Simpec constructs also treatment plants for third waste disposal.

#### FIELD OF ACTIVITIES:

WATER AND WASTE WATER TREATMENT PLANTS

#### MAIN PRODUCTS/SERVICES:

Demineralization Plants  
Waste Water Treatment Plants  
Membrane Technology  
Primary and Process Water treatment plant  
Sludge Treatment  
Batch Treatment Plants  
Skid Compact and Containerized Plants  
Special Plants



**Manufacturing - We are looking for agents/distributors all over the world in order to improve our sale network. We produce Water and Wastewater treatment plants.**

DETAILED DESCRIPTION:

Demineralization Plants

Waste Water Treatment Plants

Membrane Technology

Primary and Process Water treatment plant

Sludge Treatment

Batch Treatment Plants

Skid Compact and Containerized Plants

Special Plants

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Companies or Agents that are involved in environment sector

## SINERGIA SISTEMI SPA

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www	www.sinergiasistemi.com	
Organisation Type	Company	

### Contact Person

Name	<b>Stefano Guerzoni</b>
Position	President of company

Areas of activity	Type of co-operation	
» Biomass, bio-gas	Licence agreement	»
» Pellets	Technical Co-operation	» Offer/Request
» Solar energy	Technological Co-operation	»
» Geothermal energy	Joint research project	»
» Energy saving and efficiency	Manufacturing agreement	» Offer/Request
» Building materials	Commercial agreement	» Offer/Request
» Heating equipments	Financial agreement	» Offer/Request
» Control/metering equipments for heating in buildings		
» Other Energy topics		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Sinergia Sistemi is an engineering and plant engineering company founded in 2006, positioning itself as a market leader in energetic certification and diagnosis.

The Company is also an E.S.Co. (Energy Service Company) specialized in the study, design and implementation of high efficiency solutions for energy saving addressed to interventions in civil and industrial context, by intervening both through the necessary investments for the realization of the project and through the search for financial partners ready to support the projects.

#### FIELD OF ACTIVITIES:

Sinergia works in the following fields of activity according to its organization structure:

Energetic certification and diagnosis of buildings, consultancy and advisory on energetic systems and sustainability, design and implementation of high efficiency plants for the production of energy from renewable sources, design of integrated systems, with a particular vocation towards innovation in the supply of energy services.

#### MAIN PRODUCTS/SERVICES:

- Certification
- Energy Audit





- Advisory / Energy Management
- System Integration
- Project Management
- EPC (Engineering, Procurement & Construction)
- O&M (Operation & Maintenance)
- Search for risk capital / debt for plants implementation

**TECHNOLOGIES:**

PHOTOVOLTAIC – CO-GENERATION – TRI-GENERATION

**Investment - ENERGY EFFICIENCY FOR INDUSTRIAL PLANTS AND LOGISTIC PLATFORMS IN ROMANIA**

**DETAILED DESCRIPTION:**

Sinergia Sistemi avails itself of a branch in Romania, Sinergia Energy Management, with whom they have implemented, in partnership with Cefin Real Estate, energetic diagnosis and feasibility studies in order to realize energy saving interventions and photovoltaic and tri-cogeneration plants in civil, industrial and business buildings in Romania.

**MAIN ADVANTADGES / BENEFITS:**

Energetic requalification of production areas, savings on the energy supply costs, sale of credits for CO2 emissions saving.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

Feasability studies to identify interventions for the energetic qualification of the Romanian real estate and implement photovoltaic plants in industrial areas and on the roofs of logistic centers, particularly numerous in the Romanian territory.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Companies, industrial groups, Italian and foreign investors having branches/plants in Romania and/or willing to start a business in Romania, Chambers of Commerce, Italian and foreign companies, production areas, farming companies in Romania interested in implementing similar projects in the Romanian territory.

**Investment - THE PRODUCTION CHAIN OF VEGETABLE OILS TO FUEL TRI-COGENERATION CENTRALS**

**DETAILED DESCRIPTION:**

We intend to structure a production chain starting from the cultivation of the raw material, to refining up to consumption of vegetable oil. This enables to control the cost of the operation and to not bind the project feasibility to the variations of the fuel price on the market.

**MAIN ADVANTADGES / BENEFITS:**

Creating a production chain able to autonomously produce energy by sel-fueling.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Companies, industrial groups, Italian and foreign investors having branches/plants in Romania and/or willing to start a business in Romania, Chambers of Commerce, Italian and foreign companies, production areas, farming companies in Romania interested in implementing similar projects in the Romanian territory.



## Sintenergy

Page: **408**

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Email	a.cutrupi@sintenergy.it	
www	www.sintenergy.it	
Organisation Type	Company	

### Contact Person

Name	<b>Antonino Cutrupi</b>
Position	R&D Director

Areas of activity	Type of co-operation	
» Water energy	Licence agreement	»
	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	» Offer
	Manufacturing agreement	» Offer
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** SintEnergy is a consortium operating in the field of applied research on marine and fluvial renewable, clean technologies and environment. The consortium is structured as a spin-off incubator of the University of Calabria and it is composed of hi-tech enterprises, university departments and research institutions, connected to the industry.

**FIELD OF ACTIVITIES:** SintEnergy is a consortium with specific know-how in renewable energies aiming to carry out research on aquatic environment.

**MAIN PRODUCTS/SERVICES:** energy production with plants using self stabilizing turbines, research activities, environmental monitoring by tools in the plants.

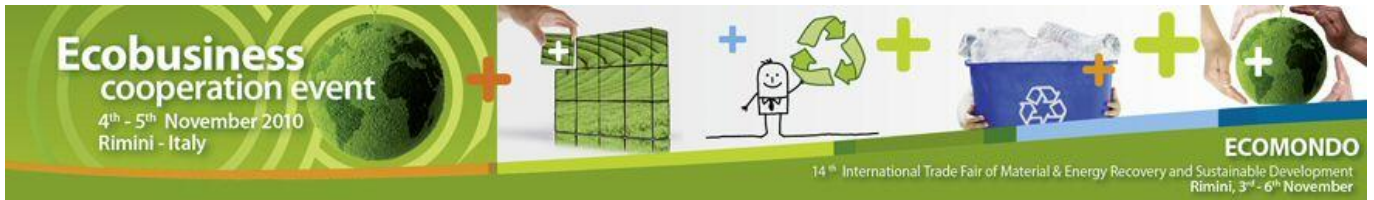
**TECHNOLOGIES:** Innovative system to generate electrical energy from natural water currents

### Manufacturing - Innovative multidirectional turbine

#### DETAILED DESCRIPTION:

The company, in collaboration with the University of Calabria, developed products implementing a new type of self stabilizing turbine, that has been patented.

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested):



A multidirectional turbine with a power up to 4 MW for tidal plant (entirely funded by the licensee industrial builder).

The system is innovative in terms of energy gathering and conversion as it develops 5.4 KW/ square meters of impeller in water currents of 3 m / s; the plant is very adaptable in aquatic environments with high natural value.

Sintenergy proposes to entrust the plants management by franchising to SMEs and research institutes interested in studying aquatic environments by funding research

### **Manufacturing - Nautical Micro Turbine for sailing boat**

#### **DETAILED DESCRIPTION:**

The Nautical Micro Turbine developed by the company can be used during the shipping and the stop both in the sea and in the rivers.

#### **MAIN ADVANTADGES / BENEFITS:**

Compared to the solar technology, the technology allows to eliminate solar panels on board, to reduce the risk of rupture of them and the lower amount of the investment. Compared to the mini wind power technology, the advantages are the elimination of the encumbrance on board, the elimination of noise and vibrations of the mast and the lower investment.

#### **TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

In both cases the micro-generation is ensured during the navigation or the stop in the rivers by the continuous working of the turbine, that in the current technologies is guaranteed only in presence of sun or wind. Finally, the product may be used also to provide electricity to isolated farmhouses.

#### **TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Sintenergy looks for interested parties in order to support the pre-competitive development of the nautical micro turbine

## Sintenergy2

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www	www.sintenergy.it	
Organisation Type	Company	

### Contact Person

Name	<b>Antonino Cutrupi</b>
Position	D&R Director

Areas of activity	Type of co-operation	
» Water energy	Licence agreement	» Offer
	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	» Offer
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

**ORGANISATION HISTORY/EXPERIENCE:** SintEnergy is a consortium operating in the field of applied research on marine and fluvial renewable, clean technologies and environment. The consortium is structured as a spin-off incubator of the University of Calabria and it is composed of hi-tech enterprises, university departments and research institutions, connected to the industry.

**FIELD OF ACTIVITIES:** SintEnergy is a consortium with specific know-how in renewable energies aiming to carry out research on aquatic environment.

**MAIN PRODUCTS/SERVICES:** energy production with plants using self stabilizing turbines, research activities, environmental monitoring by tools in the plants.

**TECHNOLOGIES:** Innovative system to generate electrical energy from natural water currents

### Manufacturing - Pocket Nano turbine

#### DETAILED DESCRIPTION:

The company is developing a Pocket Technological Nano turbine 12-24 W with voltage regulator for charging various electronic products (mobile, PC, iPad, PSP, Playstation, radio, MP3 players) with the water currents in nature



**MAIN ADVANTADGES / BENEFITS:**

The product is competitive because it's pocket, and easy to carry anywhere (it weights less than a mobile phone), it has an estimated production level of 50 times in comparison with the wind power technology in excellent wind conditions, and there is no need of any permission, as for the special characteristics it is self-adjusting in static equilibrium within the flow.

The product may be industrialized on a large scale and solves the problem of the limited battery power of the technological equipments used during the leisure time, weekends and mountain hikes.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Sintenergy favours investors with experience in marketing actions on an international scale.



## Sis.Ter srl

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Email	l.panzacchi@sis-ter.it	
www	www.sis-ter.it	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandro Seravalli</b>
Position	CEO

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Biomass, bio-gas	Technical Co-operation » Offer
» Solar energy	Technological Co-operation » Offer
» Control/metering equipments for heating in buildings	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

we provide GIS Analysis. We build and analyse databases by producing thematic cartography and specialist studies. We develop information systems for managing the assets in a project in collaboration with the client. Our references are Hera holding, Iren holding, Elettronica Santerno, ecc.

#### FIELD OF ACTIVITIES: ICT and GIS analysis

MAIN PRODUCTS/SERVICES: real estate, water supply networks, digital networks, GIS Analysis

TECHNOLOGIES: CAD and GIS, Remote sensing, Web

### Subcontracting - Urban digital life: Complexity and usability solution for urban development and city management

DETAILED DESCRIPTION: We provide GIS Analysis, assets management and communication systems and services. We build and analyse databases by producing thematic cartography and specialist studies. We develop an information system for managing the assets in a project in collaboration with the client. We provide geomarketing analysis on demand basing ourselves on the client's requirements.

MAIN ADVANTAGES / BENEFITS: young and skill company, multitask and multilevel, flexibly and fast

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): Web solution for management and analysis city object and phenomena. Real Estate, Geomarketing, Tourist Communication, Photovoltaic, Water Supply Networks, Public Green, Public Lighting, Road Signs

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: public utility, GDO, Industry, service company

## Solterra PV Park srl

Page: **413**

Address	Corso Venezia,61 20121 – Milano	<b>Italy</b>
Phone	349-4974780	
Email	migliavaccadue@gmail.com	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Michele Bignami</b>
Position	CEO

Areas of activity	Type of co-operation	
» Biomass, bio-gas	Licence agreement	» Request
	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The company is active in the sector of PV plants since 1994 but would like to enlarge its activity in the sector of energy from biomass.

The company is looking for a CHP (Cogenerator of Heat and Power) system to be fed by chipped wood, wood industry residuals or agricultural residuals. The maximum size of the plant has to be 1 MW (electric power), with a efficiency of 20 % or better (about 1 ton per hour of chipped wood).

The technology requested has to be fully developed.

#### FIELD OF ACTIVITIES:

Renewable energy

#### MAIN PRODUCTS/SERVICES:

The company is operating in renewable energy production, in particular in construction and operation of PV plants

#### TECHNOLOGIES:

In order to broaden its range of products and services the company is interested in energy from biomass power plants. The size of the plant has to be no more than 1 MW (electric). "Modular" plants to reach the maximum size of 1MW of the installation are required, so it will be possible to adapt the final size of the plant to the real amount of biomass.

There are no specific preferences for the technology of the co-generation system: gasification, external





combustion, ICE (Internal combustion engines), turbines are accepted.  
The electric efficiency of the plant must be 20 % or better.  
The feedstock of the plant must be wood, residual of wood industry or agricultural residuals.  
Municipal solid waste will not be considered.

**Distribution - Technology request for biomass cogeneration plant for heat and power generation from wood, wood residuals and agricultural residuals**

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):  
The maximum size of the plant has to be 1 MW (electric power); it may consist in a single system, or more modules.  
The most appropriate technology is probably wood gasification and syngas cleaning to feed a internal combustion engine; other technologies can be considered too.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:  
Research centre, university or company owner of a technology ready for the market

## SORTRON SRL

Page: 415

Address	via Saba 541 47023 - Cesena	<b>Italy</b>
Phone	3479098432	
Email	agolfarelli@sortron.com	
www	www.sortron.com	
Organisation Type	Company	

### Contact Person

Name	<b>Alessandro Golfarelli</b>
Position	President of company

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Energy saving and efficiency	Technical Co-operation » Offer
» Control/metering equipments for heating in buildings	Technological Co-operation » Offer
» Other Energy topics	Joint research project »
	Manufacturing agreement »
	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Founded in 2005 by a group of your researchers, all engineers graduated at the II Faculty of Engineering of the University of Bologna, Forlì branch, Sortron is a company characterized by a specific know-how in research, design and development of electronic systems and innovative sensors for industrial applications. Translating research into innovative products useful to industrial development is the challenge that Sortron has decided to take up.

The skills in electronics, telecommunications, computing and sensoristics are the basis of the prototypal and industrial systems developed by Sortron. In this framework at present Sortron boasts a good range of clients and has already obtained several prestigious recognitions, among which the award as winner of the "PRIMI" competition (in April 2006) for innovative entrepreneurship, and more recently, in 2008, the Young Entrepreneurs Award from CNA Forlì-Cesena.

The idea becomes a prototype, the prototype turns into a product: this is the typical dynamic leading all of Sortron's projects. Multidisciplinarity, dynamism, flexibility and the ability to "customize" products are the elements that define Sortron.

#### FIELD OF ACTIVITIES:

Sortron develops multisensor intelligent systems for different fields of application:

Food industry, pharmaceuticals, health and wellness, automation, industrial control, logistics, environmental services.



**MAIN PRODUCTS/SERVICES:**

- Multisensorial in-line systems for the counting, the morphological analysis and the integrity analysis of small and medium sized objects (mm – cm) to be applied in the food, pharmaceutical and industrial small parts sectors.
- detection systems for the pressure profile generated by bodies or fluids to be applied in the sectors of fluid-dynamics and health and wellness (posture and stress areas of the human body)
- analysis systems for the density and viscosity of fluids to be applied in the food and civil engineering sectors
- monitoring systems for waste transfer
- wireless systems for environmental monitoring
- energy harvesting systems from environmental sources
- systems to monitor landslides.

**TECHNOLOGIES:**

- Sortron develops customized electronic systems for the interfacing /conditioning of sensors and actuators using different kinds of buses (I2C, 1-Wire, SPI, RS232, Ethernet...). Sortron’s electronic systems use intelligent and microcontroller units able to:
  - interface commercial sensors and new sensoristic solutions
  - manage multi-sensor networks and condition actuation systems
- Sortron’s electronic systems can be powered by line power, battery, photovoltaic panels, Energy harvesting devices.

**WIRELESS MULTISENSOR ELECTRONIC SYSTEMS**

- Sortron develops multi-sensor wireless systems availing itself of their own technologies and standard technologies ( Zigbee a 2.4GHz e ZWave a 868MHz )

**INNOVATIVE TECHNOLOGIES:** electric field sensors for integrity analysis, pressure profile calculation, energy harvesting systems from different sources, own wireless platform, piezoelectric technologies, UWB technologies for localization.

**Investment - Search for a partner interested in experimenting and trading monitoring systems for environment, water and landslides.**

**DETAILED DESCRIPTION:**

Sortron has developed a multisensor wireless technology for monitoring environmental variables such as waters, climate parameters, land movements. Sortron is looking for a partner interested in experimenting, manufacturing and spreading the developed technology.

**MAIN ADVANTADGES / BENEFITS:**

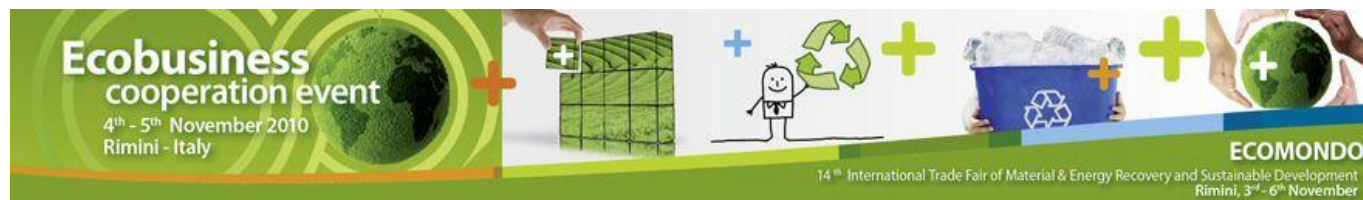
Costs, performance, liability, remote monitoring.

**TECHNICAL SPECIFICATIONS (The compilation of this field it’s strongly suggested):**

Multisensor intelligent system, energetically independent, with remote data.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Manufacturer, investor



## Studio Cortesi S.a.s.

Page: **417**

Address	via Passo Pioppe 17/1 40013 - Castel Maggiore	<b>Italy</b>
Phone	+39051714753	
Email	paolo@cortesiconsulting.it	
www	www.cortesiconsulting.it	
Organisation Type	Company	

### Contact Person

Name	<b>Paolo Cortesi</b>
Position	Technical Director

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste collection	Technical Co-operation	» Offer/Request
» Waste storage and transport	Technological Co-operation	»
» Waste selection and recycling	Joint research project	» Offer/Request
» Other	Manufacturing agreement	»
» Other Energy topics	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Studio Cortesi was founded in 1995 as a management consulting company with the aim of building organizational systems certified for quality and environment. The partners have over thirty years experience in Management Systems and Business Management, Auditing, Risk Assessment and Management. The activities range from consulting engineering sector, manufacturing, social services, food processing, packaging, construction, engineering.

#### FIELD OF ACTIVITIES:

Consultancy for Food Industries, Packaging and Packing industries, including Printing, Building Materials and Recycling building materials, Manufacturing, Hydraulics and Air Conditioning Systems, Health and Care Services Companies.

#### MAIN PRODUCTS/SERVICES:

Strategic, Legal and management Consultancy about the following subjects: Safety in the Workplace, environment, ethics and corporate social responsibility, privacy, hygiene and food safety, traceability along the supply chain and supply chain management; energy management of buildings and factories, waste management, generation and energy production;

#### Other Activities:

- Advice on internationalization;
- Advice on risk management;
- Advice on Mergers and Acquisitions;



- Research and market studies;
- Research and Development;
- Support, Promotion and Marketing;
- Training;
- Data Processing and Information technology Consulting, document management, process management, planning, implementation and management of computer networks;
- Software and Hardware Technical assistance and services;
- Translation Activities and texts reworking in any language;
- Contracts and budget Commercial advice ;
- Administrative and Financial Consulting;
- Design, management and support of research projects and their development;
- Assistance in finding private and public funding for innovation, training, research and development, obtaining certification to international standards, the use of marks of origin, quality, geographical indications, designations;
- Purchase, sale, management and use of patents, trademarks, know-how and innovative technologies;
- Study, research design, including the cooperation of third parties or escrow production, commercial brokerage, with or without warrant, with or without deposit, new product technologies and production processes;
- Business Recruitment, delivery and management of agency mandates with power of attorney and representation, management of commercial networks.

### **Consulting - Consult companies and Projects in assessing the environmental aspects and impacts**

#### **DETAILED DESCRIPTION:**

EMAS and ISO 14001 Certifications, Risk analysis and assessment. ENVIRONMENTAL MANAGEMENT SYSTEMS.

#### **MAIN ADVANTADGES / BENEFITS:**

- Economic and financial benefits;
- Competitive advantage and corporate image;
- Improvement of production processes;
- Improvement business communication;
- Reduced costs and production efficiency;
- Reduced emissions;
- Reduced scrap and waste related to the quantities produced;
- Reduce the production needs of water;
- Access to preferential financing and development projects;
- Customer satisfaction.

**STUDIO LEGALE P&S - ECOAVVOCATI // P&S LAW FIRM - Environmental Legal Advisors**

Page: **419**

Address	Via Ripamonti 9 20136 - Milano	<b>Italy</b>
Phone	+390258431373	
Email	info@ecoavvocati.com	
www	www.ecoavvocati.com	
Organisation Type	Other	

<b>Contact Person</b>	
Name	<b>Massimiliano Passalacqua</b>
Position	Managing Partner

<b>Areas of activity</b>	<b>Type of co-operation</b>	
» Waste management	Licence agreement	» Offer
» Waste collection	Technical Co-operation	» Offer
» Waste storage and transport	Technological Co-operation	» Offer
» Waste treatment - plants and technologies	Joint research project	» Offer
» Waste selection and recycling	Manufacturing agreement	» Offer
» End products made with salvaged material	Commercial agreement	»
» Eco-design and eco-compatible materials	Financial agreement	»
» Treatment of wastewater and water for domestic consumptions		
» Saving water in intensive industrial manufacturing		
» Techniques for the re-use of water		
» Treatment and disposal of the resultant sludge		
» Sewage facilities		
» Sewage services		
» Cooling and ventilation equipment		
» Other		
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles		
» Sustainable mobility electric vehicles		
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility		
» Energy from waste and biomass		
» Wastes processing and their utilization as secondary raw materials		

<b>Short description of company</b>
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Law firm fully specialized in environmental law. Environmental/Energy Law &amp; Business Legal Services.</p>





**FIELD OF ACTIVITIES:**

Our Law firm cooperates with all profiles connected to the Environmental Law and to all collateral fields such as Health and Safety Legislation, providing an extremely effective advisory service and assistance in the institutional framework with the greatest impact on International and National enterprises.

Our Eco lawyers provide assistance to all enterprises in the tangled labyrinth of Environmental Legislations, which plays – nowadays – a big role in the entire managerial system of the fixed costs also because of its complexity and strictness (it covers up to the 20% of the financial statement \*Source: OCSE), supplying customized solutions able to optimize this outstanding competitive factor in the global market.

**MAIN PRODUCTS/SERVICES:**

Legal services

Tax and accounting consultancy

Our Law Firm boasts a top grade specialization in the Environmental Field at National and international levels, following an integrated and interdisciplinary approach that involves also related issues such as Safety Legislation and Corporate liabilities.

ALL lawyers have achieved Master’s degrees in Environmental Law at the eminent Italian universities and attending specialization courses as well as refresher courses continuously.

Our company teams up with and relies on the technical support of prestigious technical companies, in order to obtain the best synergy of Legal and Technical know-how.

In particular, in the EHS field (Environment - Health – Safety) we created a team of technical and legal specialists that provides audit, consultancy, certifications, reclamations.

Our Specialists, besides ensuring an effective consultancy service, in the Environmental Legislation, for important public ad private organizations, provide pro bono consultancy for many associations connected to the Environmental Protection and valorisation.

**TECHNOLOGIES:**

Consultancy

**Consulting - Environmental legal advisors**

**DETAILED DESCRIPTION:** Law firm fully specialized in environmental law.

Our Law firm cooperates with all profiles connected to the Environmental Law and to all collateral fields such as Health and Safety Legislation, providing an extremely effective advisory service and assistance in the institutional framework with the greatest impact on International and National enterprises.

Our Eco lawyers provide assistance to all enterprises in the tangled labyrinth of Environmental Legislations, which plays – nowadays – a big role in the entire managerial system of the fixed costs also because of its complexity and strictness (it covers up to the 20% of the financial statement \*Source: OCSE), supplying customized solutions able to optimize this outstanding competitive factor in the global market.

**MAIN ADVANTAGES/BENEFITS:**

Our Law Firm boasts a top grade specialization in the Environmental Field at National and international levels, following an integrated and interdisciplinary approach that involves also related issues such as Safety Legislation



and Corporate liabilities.

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Our Specialists, besides ensuring an effective consultancy service, in the Environmental Legislation, for important public ad private organizations, provide pro bono consultancy for many associations connected to the Environmental Protection and valorisation.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): Legal consultancy

## Sunvision srl

Page: **422**

Address	via M.L.King 35 70014 – Conversano (BA)	<b>Italy</b>
Phone	3383472479	
Email	info@sunvisionsrl.com	
www		
Organisation Type	Company	

Contact Person	
Name	<b>Antonio Sacchetti</b>
Position	Rersearch and Technology Manager

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer
» Energy conversion	Technical Co-operation	» Offer
	Technological Co-operation	» Offer
	Joint research project	»
	Manufacturing agreement	» Offer
	Commercial agreement	» Offer
	Financial agreement	»

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> Sunvision S.r.l. was founded in 2007 as start-up from previous experience of Matrix s.p.a Research Laboratory. From its birth Sunvision had a rapid growth, particularly for the "human" and technical resource, strongly skilled in the electronic-controlled energy conversion field, giving to the initial idea a strong proof of concept, at first, and then also an advanced prototype which is at the final industrialization phase.</p> <p><b>FIELD OF ACTIVITIES:</b> The company operates in the field of renewable energy, particularly electronic systems for renewable energy conversion, management and performances increasing techniques, particularly for photovoltaic sources.</p> <p><b>MAIN PRODUCTS/SERVICES:</b> The most important products are single-module DC-DC converters. This product has an associated service given by remote control software communicating with photovoltaic fields, panel-by-panel.</p> <p><b>TECHNOLOGIES:</b> The technologies used are intended to implement techniques and proprietary firmware-software algorithms for Distributed MPPT (Maximum Power Point Tracking) and high efficiency hardware operating at the pv-module level. This ensures a higher energy-production yield for entire system, which is greater when it is under "high mismatch" conditions (like in the case of building integrated PV).</p>



## Distribution - Single-module converter

### DETAILED DESCRIPTION:

The company has developed high efficiency single-module DC-DC converters for photovoltaic energy conversion. They include ad-hoc proprietary firmware/software control aimed at optimizing energy production performances of photovoltaic modules. The innovative approach, unlike the traditional one (called CMPPT –Centralized Maximum Power Point Tracking), requires that the PV field is revised introducing a converter for each module, that so will work in its own Maximum Power Point (MPP).

The new approach called Distributed Maximum Power Point Tracking (DMPPT) can increase the efficiency of the photovoltaic system, due to the “electronic intelligence” which each module will be equipped with.

### MAIN ADVANTADGES / BENEFITS:

Usually environmental condition in PV sites are affected by mismatches: for example shadow projected by a chimney on a PV field installed on a building roof, the partial shadowing due to variable cloudiness, birds droppings, differential dirt and so on. Besides the aforementioned environmental mismatch, the parametric mismatch can occur, also identifiable as module tolerance, in turn divided in native (“adjusting tolerance”) and aging (“aging tolerance”).

Under mismatch the PV curve of the field designed with traditional methods has several relative max, while the introduction of our technology makes this curve flat over a wide voltage range, from a 5% yield in “perfect environmental condition” pv plants, to 30% or more in the presence of strong environmental mismatch, because each module will work on its PV curve without being “influenced” by the “worst module” in the string. Further, it is easily demonstrable that, due to output voltage tuning in a certain range, this approach allows more installation flexibility, also allowing the use of a PV string on a wide range of commercial inverters, removing maximum and minimum string voltage limitations. Moreover, because each converter has its wireless communicating protocol, it is possible to monitor the performance of each single module, so opening new possibilities for innovative services (planned maintenance, rapid fault repairing, etc. etc.)

### TECHNICAL SPECIFICATIONS (The compilation of this field it’s strongly suggested):

Single Module Converter

Maximum input DC voltage 42V

VMPP Range 15 - 40 V

Maximum continuous current (IMP) 10 A

Maximum output current 10 A

Output voltage range 0 - 50 V

Maximum power 300 W

Average Efficiency 98,2%

Maximum efficiency 98.7%

Operating temperature range -10°C to +85°C

Enclosure environmental rating IP65

UL system string voltage 600 V

CE system string voltage 1000 V

Connector type MC3 or MC4

### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

The single-module converter can be used everywhere without national limitations. So the company is looking for distributors able to manage the ambitious marketing plan all over the world.



### **Manufacturing - Integration of the single-module converter in the pv module**

**DETAILED DESCRIPTION:**

The photovoltaic single-module converter described before should be integrated in the PV modules at module production-level.

This is why the company is interested in joint further development with market-leader PV module Manufacturers.

**MAIN ADVANTADGES / BENEFITS:**

Increased PV plant efficiency

More installation flexibility

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Manufacturers of PV modules interested in the exploitation of the new technology for the improvement of their products

## Syntal Italia Srl

Page: **425**

Address	Via Cappelletta 90 27040 - Borgo Priolo (PV)	<b>Italy</b>
Phone	0383805842	
Email	info@syntal.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Cecilia Bottazzi</b>
Position	Quality Operation and Sales Engineer

Areas of activity	Type of co-operation
» Waste treatment - plants and technologies	Licence agreement »
» Cooling and ventilation equipment	Technical Co-operation »
» Other	Technological Co-operation »
» Wastes processing and their utilization as secondary raw materials	Joint research project »
	Manufacturing agreement » Offer
	Commercial agreement » Request
	Financial agreement »

### Short description of company

Syntal Italia was born in 1991 to meet the growing demand of public and private companies in the air treatment field.

Since the end of the 1990s, Syntal has specialized in various treatment systems and increased its technical-operative staff, acquiring the necessary flexibility to operate in all industrial branches.

During last years the company worked to improve its quality and technology. As a result, today Syntal is in a position to satisfy any request for highly complex air treatment plants with objectives of energy saving, return on investment and environmental protection.

Syntal further distinguishes itself for the wide range of products and services offered in the field of air treatment. The company manufactures its own products and supports customers with its expertise in order to identify for each single case the best possible solution in terms of cost, benefit, energy consumption and environmental impact.

Finally, projects and feasibility studies are conceived so as to go even beyond the "ready-to-use" model and to arrive to the remote control of plants.

### **Export - looking for companies to establish a partnership to realize new plants and new marketplaces, diffuse our technologies and our products and / or establish**

Syntal Italia Srl is specialized in production, realization and trade of air treatment systems. The company manufactures its own products and supports customers with its expertise in order to identify for each single case the best possible solution. Syntal Italia Srl is looking for companies to establish a partnership to realize new plants and new marketplaces, diffuse our technologies and our products and / or establish a joint venture





## T.E.C.O.F.I.L. srl

Page: 426

Address	Via Dell'Artigianato 12 48027 – Fusignano (RA)	Italy
Phone	+39 0545 288401	
Email	info@tecofil.com	
www	www.tecofil.com	
Organisation Type	Company	

### Contact Person

Name	<b>Gaetano Antolini</b>
Position	Sales Manager

Areas of activity	Type of co-operation
» Treatment and disposal of the resultant sludge	Licence agreement »
» Other	Technical Co-operation »
	Technological Co-operation » Request
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Request
	Financial agreement »

### Short description of company

ORGANISATION HISTORY/EXPERIENCE:T.E.C.O.F.I.L. plans and manufactures waste water purification and filtration plants for many application fields such as marble and granite, aggregates, ceramic, glass, steelworks, industrial laundries, breweries, tanneries, slaughterhouses, galvanic, dairies.

T.E.C.O.F.I.L. is in the forefront and answering to the global market needs thanks to its creativeness and its state of art technology matching customers technical and saving requirements with its concern for environment and labour safety.

T.E.C.O.F.I.L. stands up for the complete service given to its clients.

It starts from manufacturing process analysis to the real customer's demands identification: from the basic and integrated systems for problems optimal solution to the machineries making, installation, testing, technical supervision and assistance worldwide.

FIELD OF ACTIVITIES: T.E.C.O.F.I.L. srl is specialized in solid liquid separation and filtration above all for mining and metallurgical sector, for quarries, for inert sector, for bentonitic sludge sector, chemical sector and municipality

MAIN PRODUCTS/SERVICES: T.E.C.O.F.I.L. srl manufactures a wide range of filter presses for industrial processes according to customers' requirements. Further to the structural design which can be overhead or side beam T.E.C.O.F.I.L. srl filter presses can vary in both size and automation level. Also on transportable skid

FILTERPRESSES; MOBILE FILTERPRESSE; FILTER PRESS FEED PUMP; SLUDGE DEHYDRATATION MOBILE PLANT;



STATIC THICKENERS; LIME STORAGE BIN AND DISSOLVERS.

TECHNOLOGIES: Filter presses, solid/liquid separation, sludge dehydration mobile plants, filter press feeding pump, static thickeners, lime storage bin and dissolvers, chemical conditioning station with inorganic (or organic) reagents. other.

**Distribution - we look for retailers (waste water purification and filtration plants)**

DETAILED DESCRIPTION: T.E.C.O.F.I.L. srl is looking for agents and commercial partner in all the free geographical areas

MAIN ADVANTADGES / BENEFITS: A strong and lasting relationship with a very solid and dynamics society in the market since 1991.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: engineering companies, consultancy offices, Commercial Patners and Agents

## TECNOSEA -Technology and Services of Excellence in Aquaculture

Page: **428**

Address	DISTEBA - via Prov. Lecce-Monteroni 73100 - Lecce	<b>Italy</b>
Phone	+39 0832 298684	
Email	info@tecnosea.it	
www	www.tecnosea.it	
Organisation Type	Company	

### Contact Person

Name	<b>Giorgia Bressani</b>
Position	Administration council member

Areas of activity	Type of co-operation
» Saving water in intensive industrial manufacturing	Licence agreement »
» Techniques for the re-use of water	Technical Co-operation » Offer
» Treatment and disposal of the resultant sludge	Technological Co-operation » Offer
	Joint research project »
	Manufacturing agreement » Offer
	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

TecnoSEA is a spin-off enterprise constituted in September 2007, whose main mission is the valorisation of the results of the research carried out inside of the University of Salento through the development of new products and services in the field of biological and marine sciences, with particular reference to fisheries and aquaculture.

#### FIELD OF ACTIVITIES:

Aquaculture and Fisheries, Food, Agro-Industry

#### MAIN PRODUCTS/SERVICES:

The Company provides a range of products / services:

Design, management and monitoring of aquaculture and mariculture farms

Development of new processes and products

Design, management and control of systems for wastewater treatment and reuse

Design, implementation and maintenance of systems for monitoring and remote control

Planning of Environmental Management Systems (EMAS and ISO 14001) and Ecolabel certification

Provision of services with elevated biotechnological content and use of advanced diagnostic systems

Design and development ITC application for aquaculture

#### TECHNOLOGIES:

TecnoSEA holds two patents (registered in Italy):

T.RE.A.T. a system for the treatment and reuse of wastewater from land based aquaculture farm;



S.M.AC. a system for wireless monitoring and control of environmental parameters in aquaculture.

**Consulting - The company is looking for manufacturers of equipments for wastewater treatment.**

**DETAILED DESCRIPTION:**

The company had developed an integrated system for the treatment and reuse of waste-waters and by-products from land-based aquaculture plants. The treatment system allows to release in the environment high quality processed water or to reuse it in re-circulation, producing small volumes of sludge which can be used in agriculture or disposed at low costs. The system is a patent registered in Italy

**MAIN ADVANTADGES / BENEFITS:**

The innovative system proposed integrates low and high technology devices.

It ensures:

- high efficiency in reducing the suspended solids in the effluent
- high efficiency in producing thickened sludge
- possibility to reuse water and by-products

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The integrated system for waste-water treatment, here proposed, includes a water micro-filtration apparatus, a sludge thickening system based on coagulation and flocculation and tools for bio-remediation and phyto-remediation of waste-water.

According to the characteristics of the effluent, the configuration of the water treatment system is the following:

1. A drum filter equipped with rotating micro screens, with a pore size of 60-90 microns.
2. A fibreglass tank for the accumulation of the concentrated wastewater produced by the high-pressure backwashing of the drum filter.
3. A coagulation and flocculation device.
4. A sludge thickening system composed either by a settling conical tank, a geotube or an inclined beltfilter.
5. A biofiltration unit composed by an algal pond or a constructed wetland

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Manufacturing of wastewater treatment equipments are sought to manufacture the whole treatment equipment with the assistance of the developer that would supply the needed know-how.

## TECO Srl

Page: **430**

Address	Via Galileo Galilei 5 37023 – Grezzana (VR)	<b>Italy</b>
Phone	0039 045 907434	
Email	gloria.tezza@teco-ecologia.com	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Gloria Tezza</b>
Position	Legal representative

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste storage and transport	Technical Co-operation »
» Treatment and disposal of the resultant sludge	Technological Co-operation » Request
» Energy from waste and biomass	Joint research project »
» Biomass, bio-gas	Manufacturing agreement »
» Solar energy	Commercial agreement »
» Geothermal energy	Financial agreement »
» Energy saving and efficiency	

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: Management of inert garbage disposal plants. Management of waste disposal plants for biomass production. Waste brokerage.

**Manufacturing** - Management of inert garbage disposal plants.

## Tenax SpA

Page: **431**

Address	via dell'Industria 3 23897 - Viganò Brianza (LC)	<b>Italy</b>
Phone	+39 039 9219307	
Email	ge0@tenax.net	
www	www.tenax.net	
Organisation Type	Company	

Contact Person	
Name	<b>Angelo Ricciuti</b>
Position	export sales manager

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste storage and transport	Technical Co-operation » Offer
» Eco-design and eco-compatible materials	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> TENAX is an international Group of Companies which manufacture geosynthetics for civil engineering, geogrids, plastic nets and fencing for construction; nets, film and screens for home and garden; tubular netting for packaging solutions and industrial applications.</p> <p><b>FIELD OF ACTIVITIES:</b> Production of Geosynthetics</p> <p><b>MAIN PRODUCTS/SERVICES:</b> Production and sales of geogrids for soil reinforcement, geogrids for ground stabilisation, geonets and geocomposite for drainage in landfill, geomats and geocells for erosion control and landfill capping</p> <p><b>TECHNOLOGIES:</b> Solutions for landfills</p>

Distribution - We search for a company with technical background in the design of landfill and commercial activity in the promotion of technical products for landfill
<p><b>DETAILED DESCRIPTION:</b> Landfill - TENAX geonets and geocomposites are synthetic drain designed to solve the drainage situations in landfills, municipal solid waste system and hazardous waste landfill</p> <p><b>MAIN ADVANTADGES / BENEFITS:</b> Save volume for wastage storage</p> <p><b>TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):</b> triplanar geonets and geocomposites for drainage applications with high compressive resistance</p> <p><b>TYPE OR QUALIFICATION OF POTENTIAL PARTNER:</b> Civil engineering material distributor</p>



## TERNI POLIMERI SPA

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Address	Via L. Da Vinci n. 9 2010 – Cittaducale (RI)	<b>Italy</b>
Phone	+39 0746 696 135	
Email	fran.rampini@tiscali.it	
www	www.ternipolimeri.it	
Organisation Type	Company	

### Contact Person

Name	<b>Francesco Rampini</b>
Position	General Manager

Areas of activity	Type of co-operation	
» Waste selection and recycling	Licence agreement	»
	Technical Co-operation	»
	Technological Co-operation	»
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer/Request
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Terni Polimeri established in 2003 was created thanks to thirty-year experience of its founders in the field of thermoplastic compounds.

The Company displays itself as a production and distribution reality which puts together experience and innovation and offers manufacturing industry materials and services on the cutting edge of trends.

#### FIELD OF ACTIVITIES:

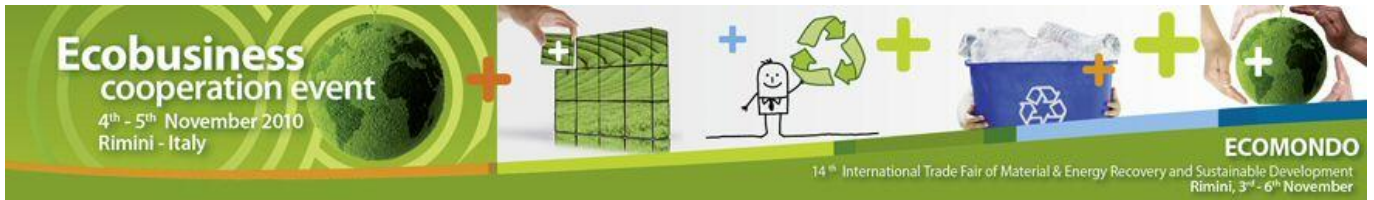
The strong point of the Company is research and development of compounds, even fireproof, both for moulding and for extrusion to be applied in several industrial fields as:

- Automotive industry
- Household appliances
- Electric and electronic parts
- PEHD tubes
- Décor and garden furniture
- Building trade

#### MAIN PRODUCTS/SERVICES:

The Company can satisfy with its compounds (i.e. product deriving from recycled plastic) the need of the presswork plastic companies offering a perfect product with a very interesting, competitive, price.

In the some time Terni Polimeri needs to search for the waste plastic materials that will be used to produce its compounds.



So, the business of Terni Polimeri is double:

- sell its compounds to the companies that operate in the presswork of the plastic field.
- buy the recycled plastic becoming from the industrial and family wastes

**TECHNOLOGIES:**

A strict and analytical control plan distinguishes Terni Polimeri activity in all its production stage. The Laboratory includes equipments for technical, mechanical, electrical and flame resistance tests; test room will presses of various sizes of capacity, moulding test ISO-ASTM and laboratory extruders. Moreover Terni Polimeri cooperate with many Italian universities for experimentation and development of new kind of compounds.

**Manufacturing - Cooperation with companies that operate in the presswork of plastic to offer them our compounds**

**DETAILED DESCRIPTION:**

1 - We offer very high technological kind of compounds to be used in the working of the plastic. By a sample of product produced by our customer and a sample of material used to do it we can realize, thanks to our technology, a perfect compound that can replace the original one .

**MAIN ADVANTADGES / BENEFITS:**

Our compound has the some chemical and physic characteristics of the original material with a more convenient cost.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The compounds we produce are exactly similar to the original material that our customer gives us, and this thanks to our very advanced laboratories of analysis and scientific research

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

No particular qualification is asked.

**Import - Cooperation with companies or municipalities that collect wastes. We buy their separated plastic**

**DETAILED DESCRIPTION:**

We look for collected materials, coming from industrial or family wastes. Each material must be well separated by its nature, so no mixed kind of different plastics is allowed. The plastic we are looking for is each kind of used plastic. So we are interested to find and buy industrial wastes and family wastes (bottles etc...) too.

**MAIN ADVANTADGES / BENEFITS:**

We can buy a large quantity of recycled plastic

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):**

The correct material choose will be analyzed by us in our inner laboratories to prove if it is correct regarding our technical specification gave to the supplier

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Our partner must operate in the waste field and must guarantee plastic recycled.



## TiberLAB Srl

Page: 434

Address	Via del Politecnico, 1 00133 - Roma	<b>Italy</b>
Phone	+39 06 72597781	
Email	info@tiberlab.com	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Fabio Sacconi</b>
Position	Technical Manager

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	»
» Other Energy topics	Technical Co-operation	» Offer/Request
	Technological Co-operation	» Offer/Request
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

TiberLAB S.r.l. is a spin off from the University of Rome "Tor Vergata", established in 2008 based on a long-standing experience of 20 years of device simulations and development of simulating software within the OLAB research group, in the Department of Electronic Engineering.

#### FIELD OF ACTIVITIES:

The mission of TiberLAB is to develop up-to-date, innovative software solutions aimed to the design and simulation of electronic and optoelectronic devices. Thanks to the expertise gained in the field, we are able to accomplish the critical requirements imposed by the recent developments in nanotechnology, resulting from the application of new materials and fundamental physics concepts.

MAIN PRODUCTS/SERVICES: Multiscale Device Simulator, Computation on Demand Service

TECHNOLOGIES: ICT, Nanotechnology



## Services - TiberCAD

### DETAILED DESCRIPTION:

TiberLAB S.r.L. is a spin off of University of Rome "Tor Vergata" established in 2008 based on long-standing experience of 20 years of device simulations and development of simulating software. The company mission is to develop innovative software solutions aimed to the design and simulation of electronic and optoelectronic devices. TiberLAB offers consulting services and end-user software.

### MAIN ADVANTADGES / BENEFITS:

TiberLAB can provide novel tools to accomplish the critical requirements imposed by the recent developments in nanotechnologies. There is a lack of simulation tools supporting academy and industries in the investigation, prediction and design of new technology solutions. TiberLAB can provide a solid background to people working on the cutting edge of semiconductor technology, sensing, energy harvesting, organic and molecular optoelectronics, NEMS and MEMS technologies. The development of physical models for a wide range of problems allows to find multidisciplinary solutions which cannot be provided by traditional CAD tools. TiberLAB represents an optimal match between research and business which allows a fast technological transfer.

### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

TiberCAD, the leading product of TiberLAB, is a multiscale simulator which is able to couple models operating at different scales in the same simulation. The multiscale approach can be employed in several fields such as particle transport, heat dissipation and mechanical deformation. TiberCAD has been already used in several succesfull cases.

### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Private company

## TIFONE SRL

Page: **436**

Address	VIA MODENA 248 44124 - FERRARA	<b>Italy</b>
Phone	+39532730586	
Email	marco@tifone.com	
www	www.tifone.com	
Organisation Type	Company	

Contact Person	
Name	<b>MARCO GUMINA</b>
Position	EXPORT MANAGER

Areas of activity	Type of co-operation
» Waste management	Licence agreement »
» Waste storage and transport	Technical Co-operation »
» Waste treatment - plants and technologies	Technological Co-operation »
» Sewage services	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

Short description of company
<p><b>ORGANISATION HISTORY/EXPERIENCE:</b> TIFONE was established in the 1955 as first manufacturer of advanced Air Spraying Equipment for Orchard and Row crops. (at those times, spraying was made by hand lances and long hoses to be thrown up to hundred meters on the ground and in the mud frequently.). In the 1965 TIFONE developed the CITIZEN-Line, a family of Air Sprayers equipped with a special, innovative conception of multy-orientable Spray-Cannon for Pest Control and environment protection. Nowadays the company, has two divisions; TIFONE AMBIENTE; specialized in highly professional equipment for Pest Control and Environment Care and TIFONE; specialized in advanced spraying equipments for Agriculture •R&amp;D and Production are 100% based in Italy. •Customers are all over the world in more than 100 countries. •Continuous Innovation , Commitment and High Quality Standards make the Company an outstanding player in the market. •Customer Care is our first aim and a 24 Hour After Sale Service is guaranteed by mail, in order to assist Customers in their everyday use of our equipments</p> <p><b>FIELD OF ACTIVITIES:</b> PEST CONTROL, PUBLIC HEALTH</p>



MAIN PRODUCTS/SERVICES:  
SPRAYERS FOR PEST CONTROL

**Export - EXPORT**

DETAILED DESCRIPTION:

advanced sprayers for pest control

main advantages / benefits:

eradication of pests, deodorization of dumping grounds

**- IMPORTER, DISTRIBUTOR**

DETAILED DESCRIPTION:

pick up carried sprayers for pest control

MAIN ADVANTADGES / BENEFITS:

eradication of pests, deodorization of dumping grounds

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

pick up carried sprayers

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

distributor, importer



## TRIBIANO TRE SRL

Page: **438**

Address	Via Pasubio 14 20067 – Tribiano (MI)	<b>Italy</b>
Phone	+39 02 90634820	
Email	piaufficio@tribianotre.com	
www	www.tribianotre-riciclare.com	
Organisation Type	Company	

### Contact Person

Name	<b>Maria Pia Robbia</b>
Position	commercial office

Areas of activity	Type of co-operation
» Waste collection	Licence agreement »
» Waste treatment - plants and technologies	Technical Co-operation »
» Waste selection and recycling	Technological Co-operation »
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility	Joint research project »
	Manufacturing agreement » Offer/Request
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

From 1996 we deal with electronic components recycling for the recovery of precious metals.

FIELD OF ACTIVITIES: Recovery, volume adjustment and preliminary storage of hazardous and non hazardous waste.

#### MAIN PRODUCTS/SERVICES:

Scrapping and recycling of:

- great obsolete communication systems
- medium to large data processing center
- telephone exchanges
- personal computer peripherals and televisions
- computer electrical machinery
- electrical machinery, motors, transformers, electric cables
- surplus Warehouse

### Other - We look for buyers or sellers of circuit board, mobile phone, batteries.

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: We are a firm that deals with metals and old equipments scrapping and dismantling. We look for firms that deal with the refining treatments for the recovery of metals.

## UMPI Group

Page: **439**

Address	via Respighi, 15 47841 – Cattolica (RN)	<b>Italy</b>
Phone	+390541833160	
Email	lucafalciasecca@umpi.it	
www	www.umpi.it	
Organisation Type	Company	

### Contact Person

Name	<b>Luca Falciasecca</b>
Position	Export Manager

Areas of activity	Type of co-operation
» Energy saving and efficiency	Licence agreement »
» Building materials	Technical Co-operation »
» Control/metering equipments for heating in buildings	Technological Co-operation » Offer/Request
» Other Energy topics	Joint research project » Offer/Request
	Manufacturing agreement »
	Commercial agreement » Offer/Request
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Umpi Elettronica, founded in 1982, is nowadays considered one of the best skilled companies in Europe, able to cooperate with its partners and customers in searching, designing and manufacturing innovative technical solutions dedicated to the energy saving, the environment protection and the improvement of life quality.

**FIELD OF ACTIVITIES:** Umpi Elettronica is specialized in designing and manufacturing smart systems based on data communication over the electrical lines (PLC - Power Line Communication), dedicated to the remote management of both outdoor and indoor lighting plants and to the building automation systems, in public and private sector.

**MAIN PRODUCTS/SERVICES:** Minos System is the most advanced remote monitoring and control system for the outdoor lighting. No matter where you are, with a simple click you can constantly check the status of the plants, have real time information about any kind of faults, and decide when and where switch on and off and reduce as well. Minos System is compatible with any existing installation and represents the ideal solution to get energy saving, reducing the environmental and lighting pollution, assuring efficiency and high quality service.

### Distribution - Agent or Distributor of products and solutions for the public lighting and building automation

Umpi is looking for agents and distributors to expand its sales network abroad. Umpi is keen to meet organizations used to supplying state-of-the art products and services for the public lighting, telecommunication technologies and building automation.



## UMPI R&D Srl

Page: **440**

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Phone	0541 833160	
Email	maurziopensalfini@umpi.it	
www	www.umpi.it	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Maurizio Pensalfini</b>
Position	Innovation Lab

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	» Offer
» Waste collection	Technical Co-operation	» Request
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Technological Co-operation	» Request
» Sustainable mobility electric vehicles	Joint research project	» Request
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility	Manufacturing agreement	» Request
» Solar energy	Commercial agreement	» Offer
» Wind energy	Financial agreement	»
» Water energy		
» Fuel cells		
» Geothermal energy		
» Energy saving and efficiency		
» Energy conversion		
» Secondary fuels		
» Heating equipments		
» Control/metering equipments for heating in buildings		

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: 30 years product development solution based on Power line communication

FIELD OF ACTIVITIES: Public lighting, Building automation

MAIN PRODUCTS/SERVICES: Public lighting device, management and saving

TECHNOLOGIES: Power line communication in indoor and outdoor space

### Research - Technological and commercial cooperation in green energy management

DETAILED DESCRIPTION: International Cooperation for a Smart metering Project



MAIN ADVANTADGES / BENEFITS: share investment, approach different country

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): To realize a solution based on Power line integrate with wireless communication including data base management for Smart Metering.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Energy manager, Software developers, End user

**Import - International partner for italian market**

DETAILED DESCRIPTION: To put on Italian market product related to Control of the Territory, Waste management

MAIN ADVANTADGES / BENEFITS: Product or Software (service) to put on Italian Market

TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested): Software for energy management, gas metering and water, waste collection .

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: Producer or developer

## University of Palermo

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Address	VIALE DELLE SCIENZE 90133 - PALERMO	<b>Italy</b>
Phone	+39 091 23863708	
Email	valenza@unipa.it	
www	www.unipa.it	
Organisation Type	University	

### Contact Person

Name	<b>Antonino Valenza</b>
Position	co-inventor

Areas of activity	Type of co-operation	
» Eco-design and eco-compatible materials	Licence agreement	» Offer
» Energy saving and efficiency	Technical Co-operation	» Offer
» Building materials	Technological Co-operation	» Offer
	Joint research project	» Offer
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	» Request

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The Department of "Progetto e Costruzione Edilizia" of the University of Palermo was founded in 1987 and has a long tradition in local and national research projects. Actually it covers an area of approx. 1650 m, including local administration, for teaching, library and laboratory.

The Department of "Ingegneria Chimica dei Processi e dei Materiali" (DICPM), established in 1969, is fully committed to Fundamental and Applied Research in Chemical Engineering and Material Sciences. The aim is to reach excellence in research, while contributing to produce graduates of the highest scholarship and with skills that will enable them to prosper in their careers and to adapt to a fast changing field like Chemical Engineering.

#### FIELD OF ACTIVITIES:

The main activities related to the department of "Progetto e Costruzione Edilizia" are the research in the field of: construction techniques, traditional and innovative components and materials, restoration and conservation of existing buildings, techniques and tools for planning and managing the building process.

The research activities of the department DICPM span from fundamentals to applications in the most challenging areas of chemical engineering and material sciences, thus attracting financial support from government and industry.

#### MAIN PRODUCTS/SERVICES:

We provide applied research activity for the development of new technologies and structures



**TECHNOLOGIES:**

The Department of “Progetto e Costruzione Edilizia” has a large library containing volumes, ancient treatises, atlases of architecture dating from the mid-nineteenth century, German and French editions, with fine color lithograph. A collection of some two hundred scientific models, on the bulletin board, document details of construction systems and building materials, along with a huge plastic painted wood which reproduces the “Mole Antonelliana”.

The Department DICPM has fifteen laboratories spread over four floors, also part of UniNetLab, the integrated system of laboratories of the University of Palermo, opened in early 2008.

The laboratories of the department are: industrial chemistry, process control, photo catalysis, chemistry applied, electrochemistry, polymer technology, composite materials, , fluid dynamics, electron microscopy and materials analysis.

**Research - Natural Panel for thermal insulation realized from “Opuntia Ficus Indica” plant. Cooperation for inclusion in a production cycle is sought.**

**DETAILED DESCRIPTION:**

We offer a thermal insulation panel, made from “Opuntia Ficus Indica” plant. The isolation system does not require special equipment for the production process, uses a highly friendly material and has great potential in the construction industry.

The panel is made from cladodes of “Opuntia ficus indica” plant , which has been specially treated, dried, ground and dried, and then is put together with binders.

We plan to develop a technology that can be applied to building roofs, floors, interior and exterior walls and all those systems that require improved insulation technical element.

Regarding the availability of raw materials, in Italy the cultivation of prickly pear are localized in particular in Sicily, Calabria, Puglia and Sardinia.

The plant is native to central Mexico and reached the Mediterranean countries during the 16th century. Cactus pear is mainly cultivated for fruit production. Young shoots are also eaten as vegetables in Mexico and southern USA. In North Africa, the cultivation of OFI is used both against the soil erosion in arid areas, and as forage replacement during droughts.

**MAIN ADVANTADGES / BENEFITS:**

The innovative material has never been used in the building field up to now. It has great potential principally for the large supply of raw material on territory (especially in Sicily), and for good thermal-acoustic properties that have been achieved (? 0.07). We have designed a product which can be produced with cycles similar to those for existing panels. It then can be industrially produced at competitive costs.

The introduction of the invention in a cycle of industrial production would also give , as secondary products, some powder and a liquid produced by grinding, to be used in the pharmaceutical, food, cosmetics and manufacturing sectors.

The innovative aspects of the proposed product, compared with similar products are:

- saving costs in the availability of raw materials,
- use of waste material;
- better performance than those of similar market products;
- lower production costs than those that use similar wood fibres which involve longer and more expensive processes.

**TECHNICAL SPECIFICATIONS (The compilation of this field it’s strongly suggested):**

During the research carried out since the goal was to assess the degree of thermal conductivity, no panels were





made with more sophisticated equipment such as presses, autoclaves, ovens and other ligands. Therefore a prototype has been created with a type and amount of adhesive that, in further stages of study, may be different and to a lesser degree, to secure the benefit of insulation.

The prototype tested was made with size 220-220-28 mm.

The specific gravity obtained is about 450 kg /mc.

The conductivity of the prototype was measured with a thermo-flow detector that has detected a mean of thermal conductivity 0.071 W/mk.

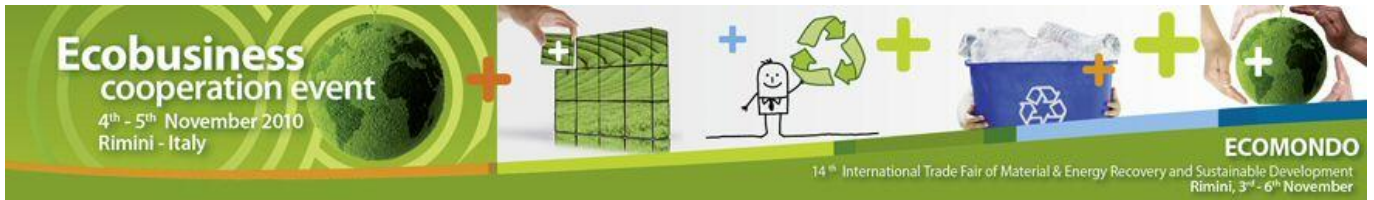
It has also been measured the insulation of a layer, consisting of only granules, of a thickness of 21 mm, for which the average thermal conductivity was of 0.057 W/mk.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Manufacturers of thermal and acoustic insulation panels

Manufacturers of laminated

Manufacturers of adhesives



## University of Palermo

Page: 445

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Phone	003909123896518	
Email	tucciar@idra.unipa.it	
www		
Organisation Type	University	

### Contact Person

Name	<b>Tullio Tucciarelli</b>
Position	Professor

Areas of activity	Type of co-operation	
» Wind energy	Licence agreement	» Offer
» Water energy	Technical Co-operation	» Offer/Request
» Energy conversion	Technological Co-operation	»
	Joint research project	» Offer/Request
	Manufacturing agreement	»
	Commercial agreement	»
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

The Department of Civil and Environmental Engineering of the University of Palermo has a long tradition in local and national research projects. It has more than 80 researchers, as well as structures, transportation and hydraulic laboratories covering an indoor area of about 4000 mq.

#### FIELD OF ACTIVITIES:

The main activities related to the Edit Profile are the research in the field of structural dynamics, as well as of fluid dynamics modeling.

#### MAIN PRODUCTS/SERVICES:

We provide applied research activity for the development of new technologies and structures

#### TECHNOLOGIES:

### Research - Development of new technologies for wind towers

#### DETAILED DESCRIPTION:

A serious drawback of the wind plants is the landscape impact, given by skyline modification, the noise and the



interference with the birds life, as well as the destination of the non reusable parts of the installation at the end of its productive life time. A partial solution to this problem is the design of an extensible wind tower with significant nominal power, that will appear only in a limited period of the year. The proposed tower has a telescopic structure, with an innovative mechanism that allows an inexpensive raising up and down. If an air generator with orizontal axis is used, a side shaft is planned to guest one or all the machine blades. Further benefits of the proposed structures are the reduction of the maintenance costs and of the tower components transportation costs.

**MAIN ADVANTAGES / BENEFITS:**

- reduced environmental impact;
- reduced maintenance cost;
- reduced transportation cost.

**TECHNICAL SPECIFICATIONS:**

The technology is aimed to allow raising and lowering of wind towers with working height of more than 50 m, by means of a telescopic structure with limited extra construction cost.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:**

Big industries working in the field of wind energy.

## UTILPLASTIC SRL

Page: **447**

Address	CAMPO SPORTIVO 180 51036 – LARCIANO (PT)	<b>Italy</b>
Phone	0039057383161	
Email	utilplastic@utilplastic.it	
www	www.utilplastic.it	
Organisation Type	Company	

### Contact Person

Name	<b>Massimo Desideri</b>
Position	President

Areas of activity	Type of co-operation
» End products made with salvaged material	Licence agreement »
» Eco-design and eco-compatible materials	Technical Co-operation » Offer/Request
» Wastes processing and their utilization as secondary raw materials	Technological Co-operation » Offer/Request
	Joint research project » Offer/Request
	Manufacturing agreement » Offer/Request
	Commercial agreement »
	Financial agreement »

### Short description of company

Utilplastic was established in 1969. The company resulted from the transformation of another concern which was founded 10 years earlier by the partners family.

Atime, the first plastic materials were being constructed; the Desideri family devoted its activity to the transformation of these new materials, mainly catering for the sector of semi - processed articles.

Production was initially limited to brooms and a few other household cleaning items, later it developed to include a wider range of articles such as buckets, basins, articles for the kitchen and bathroom.

The current line of products includes dust trays with or without handle, waste - paper baskets, various types of basins, dish drainers, cutlery drainers and holders, colanders, brooms, window cleaning utensil, dustbins, toilette - brush sets, buckets, floor washing utensil, brushes, plant - pot trays and garden pots.

Utilplastic exports approximately 70% of its production mainly to EEC countries, eastern European countries, the former Soviet republics, some middle and far eastern countries, countries of the Persian Gulf and of the Mediterranean basin, a few central African countries, central American and Caribbean countries, South America and North America.

**FIELD OF ACTIVITIES:** UTILPLASTIC is active in plastic moulding , especially in housewares. The company has injection moulding machines from 100 to 650 tons . we are interested in cooperation for product new articles in recycled materials

**MAIN PRODUCTS/SERVICES:** End product made of recycled polymeric materials. Utilplastic relies on the most advanced production equipment which includes a computerized process control and robotized apparatus. Our warehouses allows us to hold substantial stocks of standard production as well as personalized production



for single clients.

TECHNOLOGIES: Polymers injection moulding.

### **Manufacturing - cooperation in end product made by recycled raw material**

#### DETAILED DESCRIPTION:

Utilplastic is going to use post-consumption PET to product a range of innovative products. PET has a long life cycle and with this product a closed life cycle could be performed. The company is making studies to obtain particular mechanical and phisical features starting from a post-consumption PET raw material added with caompatibilizers, chain extenders and filler for example in order to give a better shockproof behaviour to new products.

#### MAIN ADVANTADGES / BENEFITS:

Great advantage on the environmental profile of new products and good oppportunities to come to new markets, meeting the always increasing demand of green products all over the word.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

- Application of different compatibilizers on the impact modifier effect (toughening) in matrices of thermoplastic polyesters;
- Study of ductile/fragile failure in the case of several compounds that are eligible for PET applications in housewares products;
- Changes in the rheology of the compound of post-consumption PET and with the use of particular chain extenders;
- Kinetics study of crystallization of PET obtained by different nucleating agents.
- Process manufacturing tuning to host the new polymeric materials

#### TYPE OR QUALIFICATION OF POTENTIAL PARTNER:

Technical and technological competencies to study the better manufacturing and technological processes to work with polymer recycled materials based on post-consumption PET.

## VALVOTUBI IND. S.R.L.

Page: **449**

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Phone	0039 0544452279	
Email	castellani@valvotubi.it	
www	www.valvotubi.com	
Organisation Type	Company	

### Contact Person

Name	<b>Marco Castellani</b>
Position	Sales manager

Areas of activity	Type of co-operation
» Treatment of wastewater and water for domestic consumptions	Licence agreement »
» Treatment and disposal of the resultant sludge	Technical Co-operation »
	Technological Co-operation »
	Joint research project »
	Manufacturing agreement »
	Commercial agreement » Offer
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

VALVOTUBI is an Italian company, with references worldwide since 1976

FIELD OF ACTIVITIES: Water works, aqueducts, water treatment, sewage plants and chemical industry

#### MAIN PRODUCTS/SERVICES:

Gate valves (soft & metal seated, short-long body, rising, non rising stem)

Butterfly valves (wafer, lug, double flanged)

Check valves (swing check, ball check, dual plate...)

Air valves (single, double)

Globe valves (GG25, GS-C25, with bellow...)

Y strainers

Dismantling joints

Rubber joints





## **Manufacturing - Searching water treatment plant manufacturer for selling valves**

### **DETAILED DESCRIPTION:**

VALVOTUBI is an Italian company, with references worldwide since 1976.

As we are able to supply a wide range of valves, this could be interesting for you

In case sometimes you need to complete a specific offer.

We're proud to offer a value added service to all our customers:

- extensive production range of valves
- prompt delivery of goods (7000 squared meters of warehouse)
- good competitiveness in prices and quality
- quick response to all enquiries

We can supply:

Gate valves (soft & metal seated, short-long body, rising, non rising stem)

Butterfly valves (wafer, lug, double flanged)

Check valves (swing check, ball check, dual plate...)

Air valves (single, double)

Globe valves (GG25, GS-C25, with bellow...)

Y strainers

Dismantling joints

Rubber joints

**MAIN ADVANTADGES / BENEFITS:** Good quality and affordable prices

**TECHNICAL SPECIFICATIONS** (The compilation of this field it's strongly suggested): Gate valves, swing check valves, air relief valves, butterfly valves, globe valves, flanges and joints.

**TYPE OR QUALIFICATION OF POTENTIAL PARTNER:** We are serching for commercial partners manufacturing water treatment plants and or company in the water distribution field.

## Venturini

Page: **451**

Address	via San Nicolò 31010 - Farra di Soligo (TV)	<b>Italy</b>
Phone	0039 04388801947	
Email	fgg.venturini@gmail.com	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Franco Venturini</b>
Position	Owner

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	» Offer
» Geothermal energy	Technical Co-operation	» Offer/Request
» Energy saving and efficiency	Technological Co-operation	» Offer/Request
» Building materials	Joint research project	» Offer
» Heating equipments	Manufacturing agreement	» Offer
» Other Energy topics	Commercial agreement	» Request
	Financial agreement	» Request

### Short description of company

A start-up SME, based in North-eastern Italy, specialised in designing and developing innovative solutions for building conditioning (both heating and cooling) has developed an innovative technology of dynamic insulation. The solution proposed consists in a panel to be located on the building envelope to ensure internal rooms conditioning both in winter and summertime. This solution allows use of renewable energy sources and energy saving as well.

The company looks for experienced partners in the sector of pre-fabricated buildings and construction for R&D activity, product validation and possible commercialisation.

### Other - Innovative and efficient prefabricated envelope for new and existing buildings.

#### DESCRIPTION:

The SME, specialized in the ideation and development of solutions for the HVAC systems, offers an original innovative dynamic insulation panel (with solar gain).

It offers the opportunity of research and development activity on the proposed innovation for product validation on an existing building.

The panel of dynamic insulation is inserted, during the working, in an Industrial prefabricated product intended to constitute or to cover the envelope of buildings.

The offered technology is particularly interesting for the following cases:

- prefabricated concreted panelling
- roof cladding and facade cladding



- cladding made with dry construction techniques
- sandwich prefabricated panelling

The final goal is the test for demonstration of the product efficiency, its validation and market application, in the perspective of product marketing.

It is desirable the participation in research projects in FP7 (Carry out a full-scale validation test of the innovative proposed product, through its application to a new construction or in an existing building, preferably of public use).

#### INNOVATIVE ASPECTS AND MAIN ADVANTADGES / BENEFITS:

The insulation dynamic panel, with a thickness about 10 cm, is an effective thermal insulation corresponding to 1 metre of heat-insulating material of good quality currently used in building sector.

It is peculiar the wintry performance, very interesting and advantageous, with reference to other technologies climatization, because it is used a fluid to very low temperature (approximately equal to the desired temperature in the environment). Using energy at this temperature level extends considerably the direct exploitation of renewable energy sources and otherwise unused waste heat.

The absence of moving mechanical components, joined to the possibility of using known materials and widely available for its build, gives excellent long-lasting expectations and reliability.

The level of comfort for inside people is very high.

#### TYPE AND QUALIFICATION OF CO-OPERATION PARTNER:

- company with experience in design and installation of Interseasonal Heat Stores (low temperature)
- experienced partner on the execution of pre-manufactured for the building

## Voltasolar

Page: **453**

Address	Via dell'Artigianato, 8 22078 - Turate	<b>Italy</b>
Phone	02 96751318	
Email	quemmemoneta@libero.it	
www	www.sistemiquemme.com	
Organisation Type	Company	

### Contact Person

Name	<b>Raffaele Moneta</b>
Position	CEO

Areas of activity	Type of co-operation	
» Solar energy	Licence agreement	»
	Technical Co-operation	» Offer
	Technological Co-operation	» Offer
	Joint research project	»
	Manufacturing agreement	»
	Commercial agreement	» Offer
	Financial agreement	»

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Voltasolar, located in Como (Italy), is a company manufacturing new and innovative solar panels.

#### MAIN PRODUCTS/SERVICES:

Voltasolar, in collaboration with the University of Bicocca (Milan), developed a solar panel different from the usual crystalline based modules diffused in the market. This new technology is based on CIGS material, Cu(In,Ga)Se<sub>2</sub>.

### Distribution - Looking for production and/or sales partner for our CIGS solar panel

#### MAIN ADVANTADGES / BENEFITS:

CGIS is the most promising materials for thin film solar cells due to his high efficiency

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

CIGS is the most promising materials for thin film solar cells due to the high efficiencies recently obtained both in lab and production lines using glass substrates. CIGS can be in fact deposited by easily scalable procedures (i.e. sputtering) not only on rigid but also on flexible substrates, which are really attractive for building integrated PV systems.

## Well Light

Page: **454**

Address	Via Zampieri n. 30 40129 - Bologna	<b>Italy</b>
Phone	+393273241775	
Email	well.light@yahoo.it	
www		
Organisation Type	Company	

### Contact Person

Name	<b>Roberto Venturelli</b>
Position	CEO

Areas of activity	Type of co-operation
» Solar energy	Licence agreement
» Wind energy	Technical Co-operation
» Fuel cells	Technological Co-operation
» Energy saving and efficiency	Joint research project
	Manufacturing agreement
	Commercial agreement
	Financial agreement

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

We are a team of specialized dedicated professionals enthusiasts on the world of renewables, with different skills, well knowledge of the market and good gained experience.

FIELD OF ACTIVITIES: Renewable Energy : Pv solar; Wind; H2.

MAIN PRODUCTS/SERVICES: design or co-design of projects; advisors on purchase to supplies; technical and legal consultancy.

TECHNOLOGIES: All the main technologies regard the fields of activities indicated.

### Consulting - we're interested to develop innovative projects with and multi-technology.

#### DETAILED DESCRIPTION:

1 financial partners to begin the develop of innovative projects; 2 innovative technology, solar and wind.

#### MAIN ADVANTADGES / BENEFITS:

propose to interested investors, and / or already known, attractive new opportunities; possibility to export technologies and sell the licenses.

#### TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):

solar concentration, new pv solar concept, projects multi-technology.

TYPE OR QUALIFICATION OF POTENTIAL PARTNER: investors; productors.



## White srl

Page: 455

Address	via Cavidole 38 41051 - Cavidole	Italy
Phone	059537743	
Email	matifrancesco@whitesrl.it	
www	www.whitesrl.it	
Organisation Type	Company	

### Contact Person

Name	<b>Mati Francesco</b>
Position	Administrator

Areas of activity	Type of co-operation	
» Waste treatment - plants and technologies	Licence agreement	»
» Treatment of wastewater and water for domestic consumptions	Technical Co-operation	» Offer/Request
» Cooling and ventilation equipment	Technological Co-operation	» Offer/Request
» Alternative liquid and gaseous fuels ICT applications for sustainable mobility	Joint research project	» Offer/Request
» Solar energy	Manufacturing agreement	» Offer/Request
» Secondary fuels	Commercial agreement	» Offer/Request
» Building materials	Financial agreement	»
» Other Energy topics		

### Short description of company

ORGANISATION HISTORY/EXPERIENCE: White meet and select business opportunities on Indian emerging markets characterizing their activities in a strictly business. The thirty years of entrepreneurial experience founding enable faster, reduce risk, effectively control a business located abroad. ?White is not a financial service provider, White is active partner able to research and develop selected business. ?White: partnerships not services. White incontra e seleziona opportunità di business nei mercati emergenti internazionali caratterizzando la propria attività secondo un approccio prettamente imprenditoriale. Attraverso la nostra consociata presente nel mercato Indiano, ricerchiamo partner italiani per nuovi prodotti e tecnologie da promuovere attraverso una relazione di partnership diretta.

FIELD OF ACTIVITIES: internationalisation on Indian market

MAIN PRODUCTS/SERVICES: we produce pneumatic conveyors, industrial vacuum cleaner, solar, impianti gas, led technology





### **Manufacturing - we are looking for companies interested in invested in India**

**DETAILED DESCRIPTION:** White does not provide a financial service but enters entrepreneurially in business requiring a direct object to the project development. This strategy allows the applicant to be partners assisted in the internationalization process. We search partner to develop industrial water recover market in India, we search partner to open led market in India in the sector of renewable energy.

White is directly involved and interested in business practical implementation and profitability. White does not burden future partner because White is directly interested in the business and shares the business risk.

**MAIN ADVANTADGES / BENEFITS:** attraverso White srl vengono abbattuti i costi di internazionalizzazione dovuti a servizi professionali ed inoltre vengono limitati fortemente i rischi paese.

**TECHNICAL SPECIFICATIONS (The compilation of this field it's strongly suggested):** In a globalized economic market, complex and uncertain as today, many Italian companies with rich entrepreneurial skills, products and high-tech generation of experience, are unable to catch emerging markets opportunities. White solve this problem

**TYPE OR QUALIFICACION OF POTENTIAL PARTNER:** Italian company within 50 employees and under 15 mil euro tourover. We search partner to develop industrial water recover market in India, we search partner to open led market in India in the sector of renowable energy.



## WINDOW ON EUROPE EUROPEAN AGENCY

Page: 457

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Phone	+3906916501365	
Email	info@windowoneurope.org	
www	www.windowoneurope.org	
Organisation Type	Other	

### Contact Person

Name	<b>NICOTRA GIUSEPPE ANTONIO</b>
Position	CHIARMAN

Areas of activity	Type of co-operation	
» Waste management	Licence agreement	»
» Waste collection	Technical Co-operation	» Offer
» Waste storage and transport	Technological Co-operation	»
» Waste treatment - plants and technologies	Joint research project	» Request
» Waste selection and recycling	Manufacturing agreement	»
» End products made with salvaged material	Commercial agreement	» Request
» Eco-design and eco-compatible materials	Financial agreement	»
» Treatment of wastewater and water for domestic consumptions		
» Saving water in intensive industrial manufacturing		
» Techniques for the re-use of water		
» Treatment and disposal of the resultant sludge		
» Sewage facilities		
» Sewage services		
» Energy from waste and biomass		
» Biomass, bio-gas		
» Solar energy		
» Geothermal energy		
» Energy conversion		

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

Internationalization of the Small and Medium Enterprises. Activity that the Window on Europe supplies is to wide beam, as it has structured to own inside the "Nucleus of Evaluation and Strategy of Enterprise" with professional figures that take care of the analysis and management of the enterprise strategies, location of the more suitable orders for the management of the company and the reorganization for a better governability of the enterprise, studies of strategic and operating marketing, check-up business, control, management and risk assessment. The Window on Europe is taken advantage of professionals to elevated specialization, which, in function of the objective to catch up, realizes strategies for the management and the development of the activity, is taken advantage also of business advisers, in order to resolve all problems legacies to the management of the

enterprise, and of experts in the area financings and the internationalization. Analysis budgetary, finance of enterprise, European and international Laws, corrected management of happens them of operation, is fundamental elements that today an entrepreneur cannot allow itself not to know. Often the great productive efforts and trade them come made useless from a experience lack financial institution. Our structure supplies qualifying activities for every type of productive truth also through careful and far-sighted sector analyses. The Window on Europe sees between its main objective also the location of new opportunities of domestic market, European and international, also through acquisition, fusion and cession of companies. In thus important an economic moment for the enterprises, Window on Europe, has placed detail attention to the foreign markets, participating to bilateral actions, being able to count also in this case, on forts partnership.

The objective of our proposal is provide supporting and consulting services in favour of the small and medium-sized enterprises within the following operative sectors:

- a) Support to small and medium-sized businesses by providing specific assistance in all stages of the project, from project conception to launching the business, via intermediate stages until completion;
- b) Specific research and achievement of the best financial sources into competent institutions at national, European and international level;
- c) Trading development at national and international level;
- d) Business to business.

#### FIELD OF ACTIVITIES:

The Window on Europe is an European Agency that takes care of the Development and the Internationalization of the Small and Medium Enterprises.

#### MAIN PRODUCTS/SERVICES:

Nucleus of Evaluation and Strategy of Enterprise

- Due Diligence;
- Business Check-up;
- Analyses, Review and Supervision Balance;
- Control of management
- Management of the treasury and Bank relationships;
- Verification Rating BASEL 2;
- Analysis of the business recession and reorganization;
- Creation of Business-plan and Budget
- Analysis of the strategies;

Nucleus Financings

- Loans
- Unsecured credit
- Loans guaranteed
- Leasing - Factoring – Forfeiting
- Financings finalized and/or facilitated (Industry - Handicraft - Agriculture - Tourism - Commerce)
- Financings for debts rescheduling
- Financings Energy (Photovoltaic - Aeolis - Biomasses)
- Direct and/or indirect European financings;

Nucleus Internationalization

Window on the Europe

Accompaniment abroad supplying the specific assistance and advising to all is made operating of the internationalization program: from the idea-plan to the start of the initiative with the intermediate passages till the complete realization of the program.

Nucleus International Consulting



International advising  
Legal advising  
Project management  
International Contracts  
International financings  
Strategic marketing  
International payments  
Assurance of the credit  
Financial and commercial assistance in the foreign country  
Constitutions Society foreign country  
Domiciliation of the Society

## Xewer

Page: **460**

Address	Via Di Torre Spaccata 145 00169 - Roma	<b>Italy</b>
Phone	0039.06.91712480	
Email	apre@xewer.com	
www	www.xewer.com	
Organisation Type	Research Organization	

### Contact Person

Name	<b>Gastone Sauro</b>
Position	

Areas of activity	Type of co-operation
» Waste storage and transport	Licence agreement »
» Waste treatment - plants and technologies	Technical Co-operation » Request
» Waste selection and recycling	Technological Co-operation »
» Cooling and ventilation equipment	Joint research project »
» Hybrids, hydrogen vehicles and hydromethane plug-in hybrids and fuel cell hybrid vehicles	Manufacturing agreement » Request
» Sustainable mobility electric v	Commercial agreement »
	Financial agreement »

### Short description of company

#### ORGANISATION HISTORY/EXPERIENCE:

A high-tech Italian SME (mechanical/chemical engineering: H2 separation technologies and technical/economical evaluation) offers ProGeo, an innovative process to store “low cost” electric energy as methane chemical energy. Methane can be used during high peak electric demand (“high cost”) or directly pumped into the net. The low cost electric energy comes from renewable sources or from large power plants, at night time.

Partners sought are for technical/manufacturing and financial collaboration

### Other - Energy storage with Methane production and Carbon Dioxide segregation

The full process consists of 3 main phases: hydrolysis, methanation reaction and electric energy production. The main equipments are the electrolytic cells to produce H2, the methanation reactor to produce CH4 (from H2 and CO2) and the MCFC/SOFC Fuel cells or Internal Combustion Engines (ICE), for the delayed electric energy production.

ProGeo utilizes the Hydrogen technology production and the Methane widespread technologies for its storage, distribution and use. The Methane produced is CO2 neutral “product”, not a fossil fuel: this product can be defined as “Green-Methane”.

The new generation of electrolytic cells can reach an efficiency of 70%, while the methanation reactor works at 2 bars and 300°C, according to the Sabatier’s reaction:  $CO_2 + 4H_2O \rightarrow CH_4 + 2H_2O$   $\Delta H_{298K} = -164,9 \text{ kJ mol}^{-1}$  (esothermic reaction). The methanation reaction results self maintaining and no additional energy is required. In these conditions and with a molar ratio  $H_2/CH_4 > 4$ , the conversion factor results larger then 95% about, with



NI (Ru etc.) catalyst bed (95% CH<sub>4</sub> and 5% H<sub>2</sub>).

The innovative aspect consists in the Hydrogen (H<sub>2</sub>) production through “out of demand” electric energy and its linkage with the first greenhouse gas (CO<sub>2</sub>) to produce, store, use the most widespread gas fuel (CH<sub>4</sub>) for energy production (closed loop configuration, Fig.1) and/or for distribution (open loop configuration, Fig.2).

In this last case ProGeo needs CO<sub>2</sub> as second input and the Methane production results not only CO<sub>2</sub> neutral but decreases the CO<sub>2</sub> emissions because decreases the fossil Methane demand.

The efficiency of the chemical storage can be fully competitive with the two other known energy storage systems: the potential and thermal ones.

The system is modular (15 years working life) and the components are already on the market (electrolysers, fuel cells or ICE) or can be easily manufactured (methanation reactor) by proper companies

The minimal installed power depends on the min size of the electrolyser (about 10-20 kW) while the max installed power depends on the maximum allowable storage volumes for O<sub>2</sub>, CO<sub>2</sub> and CH<sub>4</sub>.

The potential application of the technology is supplying buffer systems or pick demand systems for private and public offices, shopping centres etc. The proposal technology results easily connectable to renewable power plants or electrical power stations that utilize fossil fuels. At last, Companies that produce CO<sub>2</sub> as process waste (metallurgical industry, food industry, continuous manufacturing cycle – ceramic, tyres, etc.) can use our technology to produce both Methane and Electricity and to reduce the CO<sub>2</sub> emissions.

Innovations and advantages of the offer

ProGeo is a very powerful energy storage system;

It can store electric energy from all renewable or basic energy power plants;

It is modular, from few kW to several MW;

It results completely self-governing and it is easily connectable to existing plants;

The total efficiency is about 45% (from input electric energy to “delayed” output energy and with MCFC);

From an economic point of view, the running costs derive mainly from the “out of demand” electric energy cost, roughly about 4c€/kW.

The capital costs of the high efficiency electrolysers is quickly decreasing (4 Nm<sup>3</sup>/h - 30 bar about 40 k€ - source: IdroGen2 S.r.l) and the methanation reactor is a quite simple component (about 25 k€/Nm<sup>3</sup>/h of CH<sub>4</sub>).

About the “delayed” electric energy production, the global cost of the current engines or small turbines results very low: about 800-1200 €/kW.

An example of ProGeo application for a small plant with CH<sub>4</sub> production (for local public transport service, not for energy storage), gives a final amortization time of 3 years.

Current and Potential Domain of Application

Rational use of energy; Growth of Renewable energy use; Energy storage; Transport; CO<sub>2</sub> environmental pollutions





[www.b2match.com/ecomondo2010](http://www.b2match.com/ecomondo2010)