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THE ITALIAN CONSORTIUM FOR ENERGY

We believe in a way of doing business that is aimed at value creation over time, based on a solid foundation of ethics and sustainability. Our aim is to contribute to the achievement of the targets set out by the Kyoto Protocol, creating a positive impact on the environment and ensuring compliance with the local population, while at the same time contributing to the social and economic development of the territories affected by our business.

Our core values, other than social and environmental sustainability, which is at the heart of our business, are: honesty, propriety, transparency, responsibility, moral commitment, professionalism and team spirit.

The changes in the international context helped to focus research not only on the production of renewable energy, but also to evaluate and to develop new lines of integration between energy production and environmental management.

The Consortium has strengthened the expertise of system integrators between energy and the environment: growing economies and emerging countries need such solutions and expertise, and not just technology.





RENEWABLE ENERGY

We are active in the implementation and development of activities in the field of renewable energy. We operate as EPC Contractor and we cover the entire industry value chain: from scouting and development, through the choice of the best technologies, to plants construction and operating management.

We cover five different lines of business: *Solar* (from retail systems to large "utility-scale" plants), *Wind Power*, *Geothermal*, *Biofuels* and *Bioenergy*.



HIGHLIGHTS

- Around 500 Megawatts installed
- Over 3500 PV plants installed
- A wind-farms development pipeline with a total capacity of over 70 MW
- More than 100 MW of heat provided to about 600 buildings and more than 12.000 families
- 6 Landfill biogas plants with a capacity of about 6,3 MW
- 7 agricultural biogas plants working through the anaerobic digestion of agricultural crops aiming to generate electricity and biofuels



ENERGY EFFICIENCY

We design solutions to improve energy efficiency in buildings and plants through the most advanced technologies. We are able to operate as per the ESCO model and we provide different services: *Audit, Design, Construction, Operation and Management*.

We provide all the clients with tailor-made solutions: from targeted interventions aimed at reducing consumption (*Energy Audits*) to the optimization and rationalization of the energy flows (*Smart Projects*).

IEEC is widely experienced in providing co/trigeneration plants fed by different fuels (methane gas, biogas, biofuels, diesel, gasoline, etc.), getting system total efficiency values up to about 90%.



HIGHLIGHTS

- Up to 60-70% of savings in costs (70% in lighting)
- Innovative technologies in distributed generation, energy efficiency and energy storage
- Technology and services for Smart Homes, Smart Grids and Smart Cities
- IEEC, among the hundreds of systems installed, can boast of having realized a cogeneration plant composed of a unique combination of equipment: 8.1 eMW Engine; 0,7 eMW ORC Turbine fed by Engine HT exhaust; 0,2 eMW ORC Turbine fed by Engine LT exhaust and Engine HT water cooling system (Total= 9 eMW).



WATER, SEWAGE SYSTEMS AND OIL PIPELINES

From the uptake to the final distribution IEEC is able to design a special sector, equipped with last generation instrumentation, also dedicated to the leak detection service. Our personnel deals with works of primary supply, storage and compensation tanks, irrigation works.

The consortium is also involved in the construction of oil pipelines, sewage systems for both, urban drainage networks and all kinds of fluid transport networks, also resorting to no-dig technology in order to avoid open excavations.

- "Turnkey" construction, also with the use of "no dig" technologies
- Computerized cartography and GIS system
- Search for water leaks



HIGHLIGHTS

- Design and construction of industrial and civil wastewater treatment plants. These systems are divided in biological or chemical-physical treatment. The company designs every plants to downgrade the pollution in order to obtain both water purification and treatment of the resulting sludge.
- Design of primary water treatment plants for use as drinking or processing water
- Water supply
- Water networks modeling
- Water networks maintenance
- Survey of underground services with ground penetrating radar instrumentation and subsequent mapping for graphic rendering



INTEGRATED WASTE MANAGEMENT

We are active throughout Italy guaranteeing a complete lifecycle management of special non-hazardous waste, from collection, selection, treatment, to recovery, evaluation and final disposal. We assist our clients in managing waste correctly and we work to reduce the impact on the environment created by entrepreneurial activities, through a progressive increase in the amount of materials recovered and defining targeted solutions. The Group is also active in the complementary sector of land reclamation.



HIGHLIGHTS

- Italian leading private group in the waste management and environmental services sectors
- Customer portfolio of about 3.100 companies operating in different commodities sectors
- 98% of customer retention rate
- 220,000 tons per year of waste collected
- Recycling ratio: 35%, with peaks of 70% in special projects such as "the green kilometer project"
- Front End Loaders, designed specifically to serve even the smallest companies with limited storage space

