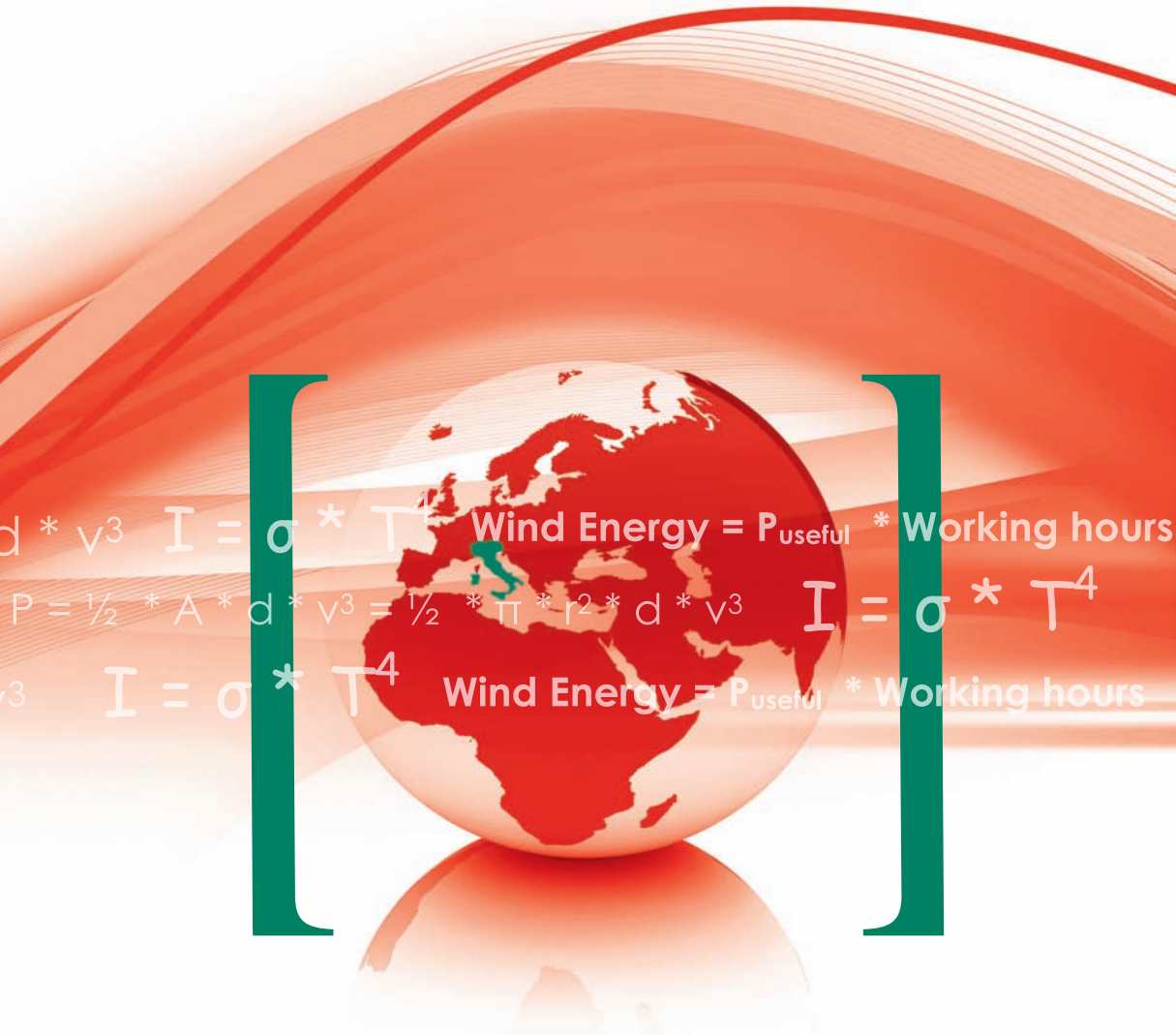




**ITALY at**  
**WORLD FUTURE ENERGY SUMMIT**  
Abu Dhabi, 18-21 January 2010



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## Booths 8120

Italy will be the official  
Partner Country at



## Renewable energies in Italy

Following the European Union policy, production of renewable energy in Italy covers about 20% of domestic consumption (16,5% in 2008). Production is concentrated in the North of Italy, mainly in Lombardy and in Trentino Region, followed by Toscana and Piedmont. Puglia stands out from the Southern regions.

In Europe, Italy ranks fifth after Germany, Sweden, France and Spain.

In order to promote renewable energy supply, Italy has adopted the following schemes:

- Priority access to the grid system is granted to electricity from renewable energy plants.
- An obligation for electricity generators to feed a given proportion of renewable energy into the power system.
- A feed-in tariff for PV. This is a fixed tariff, guaranteed for 20 years and adjusted annually for inflation.

There is a strong commitment at national and regional level in order to promote renewable energies and energy efficiency. These have taken the form of incentives for solar thermal heating and compulsory installation of solar panels in new or renovated buildings.

## Italian Trade Commission and Renewable Energies

The Italian Institute for Foreign Trade (ICE) is active in promoting business between Italian and foreign companies in the renewable energy sector. To accomplish this aim, ICE works in close cooperation with the Italian Ministry for Economic Development, the Italian Ministry for the Environment, Land and Sea and all national and regional Associations and Institutions.

ICE supports internationalization of Italian companies at all main international exhibitions. In particular, in 2010 at the Hannover Messe, where Italy will be the official Partner Country.

# ITALIA

## Italian Trade Commission

The Italian Institute for Foreign Trade (I.C.E., Istituto nazionale per il Commercio Estero) is the Italian government agency entrusted with the promotion of trade, business opportunities and industrial co-operation between Italian and foreign companies. It supports the internationalisation of Italian firms and their consolidation in foreign markets.

I.C.E. can provide information and assistance to those foreign companies that wish to develop business with their Italian counterpart.

I.C.E. also carries out an intense training activity for Italian and foreign managers operating on international markets, fostering the promotion of made in Italy products.

Located in Rome, the Head Office operates in connection with a wide network of offices in Italy and abroad.

ICE is on-line on:

**[www.ice.gov.it](http://www.ice.gov.it)** - for Italian companies. It contains information on foreign markets, ICE activities, assistance and promotional services.

**[www.italtrade.it](http://www.italtrade.it)** - the Made in Italy Official Portal for foreign companies. It contains information on Italian production and a data bank of Italian exporting companies (the Made in Italy Business Directory).



## etaflorence renewable energies

### ETA Srl

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### Booth 8120

Since 1994, Etaflorence has been active in the areas of research, development, application and integration of renewable energy systems. A decade of experience allows us to offer "turnkey" systems, from financial-economic analyses of investment to feasibility studies, from assisting with authorization requests to the completion of design phases, from task management and consideration of safety to testing and installation.

Etaflorence develops specialized publications in the field of effective use of renewable resources during our design and dissemination projects, elaborating research and market analyses, feasibility and pre-feasibility studies, Master Plans and conceptual studies at national and international

Given the experience and know-how across the complete spectrum of renewable energy, Etaflorence is ideally placed to carry out advanced energy planning, for both large-scale and small-scale systems.

Etaflorence takes care of the of organization, promotion, realization, management of international and national events, conferences meetings, workshops, exhibitions covering the entire renewable energies sector with more than 10 years experience.



**European Engineering Consortium Stabile di Ingegneria**

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Fabrizio Sellan

[waterplugin@libero.it](mailto:waterplugin@libero.it)

**Booth 8120**

We build total recycling plants to recover waste waters of industrial processes respecting the Environment and transforming costs into profits. Waterplugin project was born in 2002 to develop a plan for the treatment and recovery of waters. In 2005 Waterplugin defined a protocol and turned the operating system into practical application. In 2006 started the project to commercialise the system. In 2007 Verind S.p.A. leader company in the field of filtration system, started its collaboration bringing new integrated technology to Wpi system. In 2008, The WPI started a collaboration with **European Stable Engineering Consortium of Engineering** for the insertion of WPI system in the design of civil works. ( "Comet Tower" presented in UAE). Also a research started to standardize the purification of water systems with complex technology WPI/Verind.

**WPI project**

The project consists in a chemical and engineering system for totally recycling with a closed-loop method the waters and the waste waters in the industrial processes of industrial laundries. Detergents and other additives can be restored them in big amount.

The project consists to develop these plants. They can be applied in many other industrial sectors.

**Market description**

The system is turned towards many industrial sectors. For each sector it must be customized to be efficient and efficacious. It is possible to apply it in the following sectors:

Industrial laundry, Cars wash, Articulated lorry and TIR wash, Catering for dishwasher, Paper mill, Food processing (fruits and vegetables wash, olive oil production and vegetable oils, dairy industry), Graphic printing industry

Military sector, Hospital sector, Metal cleaning, Tanks cleaning, Textile industry,

Tannery industry, Jeans treatment industry, Cloth treatment for mechanical field, typography field and etc.

Municipal water, Dew pond treatments



**Gestore Servizi  
Energetici GSE**

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**Booth 8120**

Gestore dei Servizi Energetici (GSE Spa) is a publicly-owned company promoting and supporting renewable energy sources (RES) in Italy.

GSE fosters sustainable development by providing economic support to renewable electricity (RES-E) generation and taking actions to raise awareness of environmentally-efficient energy use.

In the Italian power system, the activity of GSE has a paramount importance, since it manages the scheme incentivising electricity generation from renewable and “assimilated” sources, as well as the related economic and financial flows.

GSE participates in the international associations IEA (International Energy Agency), OME (Observatoire Méditerranéen de l’Energie) and AIB (Association of Issuing Bodies).

The sole shareholder of GSE is the Ministry of Economy and Finance, giving guidance for the activity of GSE in consultation with the Ministry of Economic Development.

GSE is the parent company of two subsidiaries: Acquirente Unico (AU) and Gestore dei Mercati Energetici (GME).



## **Sinergo SpA**

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## **Booth 8120**

Established in Italy in 1976, Sinergo comes from the blend of the experiences and capabilities in the engineering services and in the energy sector by two long-standing companies philosophically and geographically close but working in complementary sectors.

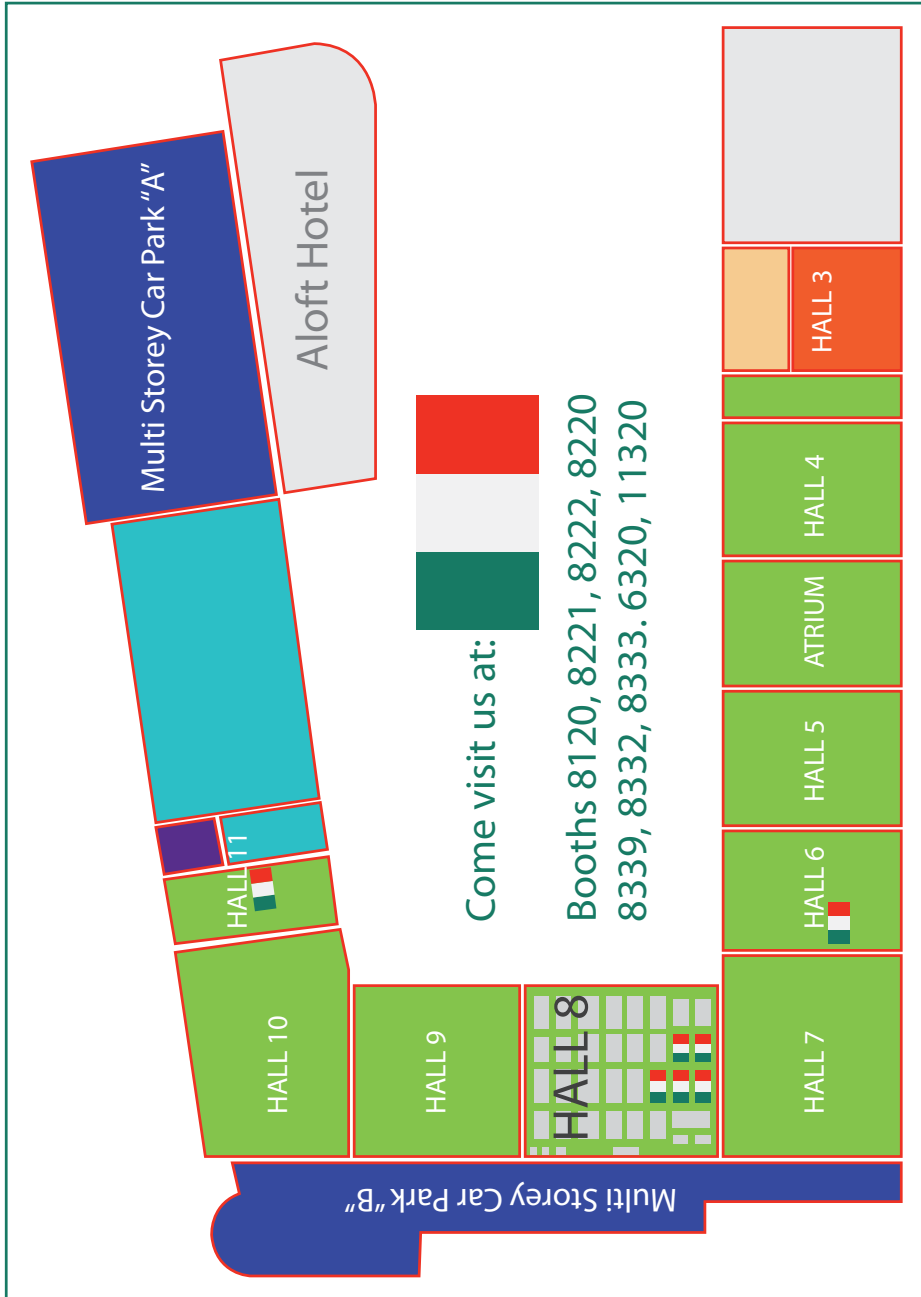
With its headquarters located in Venice, Italy and established branches in Dubai and Abu Dhabi, United Arab Emirates, Sinergo is able to provide outstanding engineering services for European, Middle East and North African countries, ensuring the constant presence of an organized structure "ready" to meet Customer's complex requirements.

The acknowledged and consolidated years of experience makes Sinergo the ideal partner in planning and manufacturing highly technological work that integrates creativity and engineering of structures and energy.

Our broad range of skills can be grouped into:

- Project and Programme Management
- Architectural and MEP and Structural Engineering Design
- Infrastructures
- Energy from renewable resources: PV Panels, Solar Thermal, Wind Farm, Biomass.







**ARCHIMEDE SOLAR ENERGY SpA**

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**Booth 6320**

Archimede Solar Energy will attend the World Future Energy Summit in Abu Dhabi

STAND 6320 HALL 7

Archimede Solar Energy SpA is the company of the Angelantoni Group that operates in the Renewable Energies sector.

Archimede produces, under license from ENEA, receiver tubes for thermodynamic solar power plants.

The tubes produced by Archimede operate at high temperatures (up to 600°C) and use molten salts. In the solar power plants, the tubes are positioned in the focus of a parabolic solar mirror, which concentrates the sun's rays; the thermal vector fluid runs inside the tubes.

Thanks to a spectrally selective coating (CERMET) and a casing kept in a vacuum, Archimede tubes ensure maximum sunlight yield (maximum absorption and minimum emission).

Thermodynamic solar power plants using molten salts produce energy without either emissions or pollution, and they do not make use of any toxic or dangerous materials. In particular, the vector fluid is a common fertilizer already used widely in agriculture.



HEMS08  
Solar Receiver Tube for thermodynamic power plants

**AREA  
IMPIANTI**

Ecologia Industriale e Tecnologie Avanzate

**Area Impianti SpA**

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Katia Turetta  
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**Booth 8220**

Area Impianti is based in Padua, North of Italy and has two main business lines:

**Flue Gas Treatment:** Area Impianti designs, manufactures and installs flue gas cleaning plants with advanced technological content.

These solutions are aimed at reducing emissions below the limits required by national and international laws.

**Cogeneration:** Area Impianti designs, manufactures and installs complete lines of incineration, fermentation and anaerobic digestion that process waste in order to produce electric and thermal energy.

It also builds waste gasification plants for cogeneration.



# BONFIGLIOLI

## *Power & Control Solutions*

### **Bonfiglioli Italia SpA**

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### **Booth 8210**

50 years of technical innovation rewarded by outstanding success

Bonfiglioli was founded by Clementino Bonfiglioli in Bologna in 1956. To stand out from a growing number of competitors, the new company implemented a highly innovative approach to gearbox production.

The first gearboxes entirely designed and manufactured by the company were worm drives. These were followed by conventional gearboxes and later still, by parallel and right-angle shaft gearboxes. By focusing on these products, Bonfiglioli rapidly extended its field of expertise, ultimately breaking into the industrial automation sector.

Inevitably, Bonfiglioli's initial specialisation in mechanical gearboxes soon evolved in the direction of integrated electronics, and in the year 2001 the Group acquired VECTRON ELEKTRONIK GMBH, a leading name in the design and manufacture of high-tech electronic drives.

The group employs 1525 people in 6 factories in Italy and a further 1287 people in subsidiaries in Spain, France, the UK, Germany, Sweden, Brasil, Canada, the USA, Australia, South Africa, India, China and Turkey.

# Solare

## **Consorzio Solare XXI**

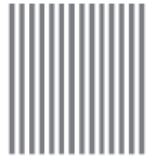
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## **Booth 7331**

Solare XXI is a newly established consortium committed to produce and market an innovative parabolic trough solar collector. The four Companies (Techint, Archimede Solar Energy, Ronda Reflex and Diplomatic Oleodinamica) involved in Solare XXI are regionale or global leaders in their specific field and fruitfully shared their knowledge and experience to conceive and realize a solar collector having unique characteristics in the worldwide scenario. The Solare XXI collector has been designed indeed to operate with different heat transfer fluids such as the traditional mineral oil or the promising inorganic fluid based on molten salt, allowing a wide range of possible applications. The high efficiency and the overall design of the receiver tube permits to extend the temperature operation range up to 550°. Even the parabolic shaped reflecting panels present relevant innovations with respect to the current state of the art assuring high optical precision, intrinsic strength and guaranteed durability even under severe environmental conditions. The strong supporting structure is driven by an accurate and reliable tracking system. The whole collector structure looks simple and easy to install, optimized to minimize on site assembling and erection works. Thanks to its special features the Solare XXI parabolic trough collector aims to be the key element of the most advanced Concentrating Solar Power plants committed to achieve the highest conversion efficiency and the best economical performances.



# ECOPROGETTI

## **Ecoprogetti Srl**

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## **Booth 8330**

Ecoprogetti produces since 1998 a wide range of technologies and machines in the photovoltaic sector, in the field of renewable energy and manufacturing equipments. Ecoprogetti offers for each step of the process the best solutions of automation and quality, aiming at highest possible flexibility.

Thanks to the company's know-how, Ecoprogetti gives the customer the best turn key solutions with a complete assistance in training, start up, advice and support service by qualified personnel with years of experience as photovoltaic module producers.

These are the elements that enable Ecoprogetti to consolidate its position in the worldwide photovoltaic market.





### **Faggiolati Pumps SpA**

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### **Booth 8220**

Faggiolati Pumps SpA, certified ISO 9001:2000 ,  
 UNI EN ISO 14001:2004 operates internationally.  
 Company turn-over: 15 millions euro.

Faggiolati Pumps designs and manufactures electric  
 submersible pumps, mixers and aerators with  
 metallurgies that go from the lamellar graphite cast-  
 iron to the austenitic 316 stainless steel, duplex,  
 hastelloy alloy up to the bronze and its alloys. All  
 our metallurgies are certified and of Italian origin.  
 The available hydraulic versions are : Drainage,  
 Grinder, Single/Multi Channel, high efficiency  
 Vortex.

The products range (about 856 among pumps and  
 mixers) includes models from 0.5 kW to 350 kW,  
 2-4-6-8-10-12 poles ( 50 Hz and 60 Hz ).

Furthermore we supply customer tailored  
 executions, oxygenators, electronic instruments and  
 accessories for pumping plants.

Faggiolati Pumps collaborates with international  
 engineering companies such as Alstom and Eni.  
 Among our realized projects there are: Shoaiba  
 power plant (SAUDI ARABIA), Jabel Ali screening  
 system (DUBAI, U.A.E.), Emirates Holding (ABU  
 DHABI, U.A.E.), Drilling and pumping plant Sakhalin  
 (RUSSIA), Lady Diana memorial fountain Hide Park  
 London (UK), Trevi fountain Rome ( ITALY), Ferrari  
 painting plant Maranello-Modena (ITALY).



## **ITALIAN TEAM**

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## **BOOTH 8110**

### **AN IDEA ORIGINATING FROM ENTREPRENEURS**

This project emerges from the comparison between a group of Italian entrepreneurs' experiences in the United Arab Emirates with regard to the dynamics and the potential in the construction and service sectors.

### **MASDAR CITY**

This project was born by matching the experiences of a group of Italian companies in the Arabic Emirates; all that is related to the project Masdar City and to the next possibilities that will be created in the construction and service fields.

Some companies are already Masdar partner and some others aren't again.

The value these companies share is sustainability and every company applies it in its' products, services and manufacturing.

This value gave birth to a group of companies where each one is leader in its own field and together could become a strong and qualified group; a group that wants to be part of Masdar's project as a single company in order to give excellence and as a team in order to execute "ready to use" projects.

This is an Italian system, that will be supported by national authorities and institutions, and which wants to propose his self to Masdar with strong synergism.



# PIZZAROTTI

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## **Booth 8115**

### **Activity**

Impresa Pizzarotti & C S.p.A. is the 3rd largest Italian Construction Company domestically and overseas for building and civil engineering infrastructure projects.

The birth of what is today Impresa Pizzarotti & C.S.p.A. traces back to the year 1910. The start-up family business is now one of the leading Italian Construction Company with a turnover of approximately 1.1 billion US\$ (2008).

With 2600 resources of personnel, it is present in 11 Countries worldwide.

Impresa Pizzarotti has almost 100 years experience in Italy and about 20 years all over the world in the following main sectors:

Infrastructure works (highway, roads & bridges, railways, metro), Mixed use developments (commercial, exhibition centre, leisure park), Tunneling, Civil and military airports, Hospitals, Housing, Energy.

### **Main features**

The almost 100 years experience makes possible not only covering the entire spectrum of design and construction activities in the infrastructure sector but also assuring high standards in know-how, in materials and skilled manpower.

Impresa Pizzarotti always promotes high sustainable policy for its works. The Company was recently awarded for LEED Silver Rating, thanks to adopt LEED Green Building Rating System as benchmark for constructions and operations of high performance green buildings.



**Power One SpA**

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**Booth 8221**

Power-One, with an installed photovoltaic (PV) product base of over 360 Megawatts (MW), is one of the leading manufacturers of inverters for PV applications in the world. Under its Aurora® trademark, Power-One offers one of the widest power ranges of PV inverters in the market, from 2 to 330 kilowatts (kW).

The main discriminators of the Aurora® product line are represented by the very high production yield achieved by high efficiency, Multiple Power Point Tracking (MPPT) accuracy, extended input voltage range, and real-time response of the MPP trackers. These are complemented by unmatched flexibility of installation achieved through multiple MPPT inputs, wide-input voltage range, and a unique modular architecture from Aurora® PVI-Central Inverters.

The new PVI-Central Inverter Series products, PVI-110.0, PVI-220.0, and PVI-330.0, provide AC power of 110 kW, 220 kW, and 330 kW, respectively; and will be available in Europe in January 2010.

Combined with the features and improvements encompassed in these PVI-Central products is a new design of the electronic converter that has created an increase in overall efficiency to 98%; 0.5% more than the original PVI-Central, and yet, still maintaining the unmatched robustness of its modular architecture. The new design benefits from the experience gained from Power-One's already-installed PVI-Central base of over 160 MW, and enhances the suitability of Power-One's products for commercial and utility-grade plants in conjunction with Crystalline and thin-film modules.

**Siac SpA**

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Fax +39 02 90968490  
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Elisa Pavia  
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**Booth 8333**

Siac started off as a company specialized in the production and sales of batteries and DC power systems. In compliance with Siel's philosophy, Siac has paid great attention to technological research and has headed for international markets. This attitude has produced excellent sales results placing Siac among the top manufacturers of three-phase photovoltaic inverters aiming to become an international focal point in the industry.

Siac's range of "Soleil" solar inverters for gridconnected standalone and hybrid applications are able to meet the most demanding requirements. Success on the market is also due to an extended product support network and a set of services including a Teleglobal System, multi-year maintenance contracts, support of specialized personnel and extended warranty contracts.

SIAC is an Iso 9001-2000 certified company, setting quality as the target in all its activities from production to after sales services, from governance standards to social responsibilities.

# TCR TECORA

## POLLUTION CHECK

### **TCR Tecora**

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### **Booth 8332**

TCR Tecora was established in Milan in 1974. The company's aim was to design and manufacture technologically advanced instrumentation for air quality and stack emission, based on international standards.

Since more than 30 years, TCR Tecora designs and manufactures sampling and measuring systems for both immission and emission control in compliance with the most important international standards.

Since 1998 TCR Tecora is ISO 9001 certified: this is a further commitment to supply high quality products toward Italian and foreign customers.

**Vestas**<sup>®</sup>

Vestas is the world leader in delivering Modern Energy. We have already installed over 38.000 turbines in 63 countries on five continents, with a new turbine being installed every four hours worldwide.

**Vestas Italia Srl**

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**Booth 11320**

Today, Vestas has the widest serially-produced range of turbines in the wind power industry. Our turbine range comprises eight turbine types ranging from the V52-850 kW turbine to the V112-3.0 MW turbine, each tailored to different segments and wind regimes.

Vestas' presence on the Italian market dates back to 1998. Vestas can be proud of being the pioneer of the wind market in Italy.

Vestas operates in Italy through three different companies: Vestas Italia s.r.l., the Italian company responsible for the sale, installation and maintenance of wind farms in Italy, Med east countries, Switzerland, North-east Africa, south Balkans; Vestas Nacelles Italia s.r.l., the Italian company responsible for the assembly of the V52-850kW and the V90-3.0 MW turbine models and Vestas Blades s.r.l., the production unit responsible for turbine blades.

When Vestas started its activities in Italy, the wind market was represented by two regions only. Nowadays, every region of south Italy is involved in the production of wind energy and, thanks to the occupational implications, local communities are becoming more and more inclined to accept wind turbines.

By September 2009, Vestas has installed and connected to the grid wind turbines for a total of 2000 MW, which accounts for the 45% of the installed capacity on the Italian territory.

There's no need to explain the importance of this excellent industrial pole in the Italian wind sector: in less than 10 years the number of employees has risen from 50 to more than 700 people, thanks to an intense and highly technological production activity, consequently, creating a specialised group of sub suppliers for the different stages of the creation of a wind farm.



## Italian Trade Commission

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$$I = \sigma * T^4 \quad P = \frac{1}{2} * A * d * v^3 = \frac{1}{2} * \pi * r^2 * d * v^3$$

Wind Energy =  $P_{\text{useful}} * \text{Working hours}$

$$I = \sigma * T^4$$

$$I = \sigma * T^4 \quad P = \frac{1}{2} * A * d * v^3 = \frac{1}{2} * \pi * r^2 * d * v^3$$

Italy will be the official  
Partner Country at  
HANNOVER MESSE 2010

