

RENEWABLE ENERGY for AFRICA & THE PERSIAN GULF

Expo-congress

Renewable Energy

for Africa & The Persian Gulf

June 12th, 13th & 14th, 2013 - Madrid



PRESENTATION

MORE INFORMATION: www.grupoecm.com/energy.htm - info@grupoecm.com -0034 91 388 79 55

RENEWABLE ENERGY FOR AFRICA & THE PERSIAN GULF

EXHIBITION & CONGRESS



The exhibition & congress "Renewable Energy for Africa and the Persian Gulf" is an initiative of the company European Conference Management, born out of a desire to support the internationalization of European companies in the sector of renewable energies by bringing know-how, experience and technology to the Governments from those geographic areas in order to carry out collaborative projects to ensure their sustainable growth.

Madrid – Spain

The African market for renewable energy is an important growth market. The climatic and geological conditions for the production of renewable energies are very good. Over the past decade, global use of renewable energy sources (solar, wind, hydropower, geothermal, biomass, and biofuel) for generation of electricity has grown significantly, reaching 19% of total power generation in 2010 compared with 14% in 2002. Africa is rich in renewable resources and could benefit from the increasing use of renewable energy, such as hydro-power (potential estimated around 1,750 TWh) and geo-thermal energy (estimated at 9,000 MW). Over 80% of the continent receives about 2000 kWh per square meter of solar resources per annum. European technologies for the generation of electricity using renewable energy are very much in demand.

The Persian Gulf sit on around one-fifth of the Earths oil reserves, but the emirates are not oblivious to the growing interest – and need – for alternative, eco-friendly energy. And so, the Arab monarchies are embarking on a green revolution that aims to transform their own economies by freeing oil for export rather than domestic consumption to fuel power stations. Leading the solar efforts in the Gulf Abu Dhabi, which is developing the Shams 1 solar project. The future field will have an electricity generation capacity of 100 megawatts. Once completed, Shams 1 will be one of the largest concentrated solar power plants in the world, and the largest of its kind in the Middle East. Meanwhile, Saudi Arabia aims to form a chain of solar power stations over the next few years as part of a 100 billion program to develop renewable energy platforms.



SUCCESS STORIES

Shams-1 The largest solar power plant in the Middle East

(Abengoa Solar web, 2013)

Shams-1 is a 100 megawatt (MW) parabolic trough plant, located in Madinat Zayed, approximately 75 miles southwest of Abu Dhabi (United Arab Emirates). Construction began in the summer of 2010 and it's slated to go online in 2012. This project is a joint venture of Masdar, Abengoa Solar and Total, covering around 741 acres of desert in Abu Dhabi, has a solar field of nearly 6,458,346 sq. ft. where 768 Abengoa Solar parabolic troughs will operate and generate 100 MW of solar power.

The plant incorporates state-of-the-art parabolic trough technology. Among other innovative features, highlights include the plant's dry-cooling system and its auxiliary heating boiler. The dry-cooling system significantly reduces water consumption, while the auxiliary boiler, which heats the steam as it enters the turbine, boosts the cycle's efficiency and represents an important step forward in introducing renewable energy in Abu Dhabi, whose goal is to have 7 percent of its energy be from renewable sources by 2020. The plant will prevent approximately 175,000 tons of CO2 emissions each year. This is equivalent to planting one and a half million trees or eliminating the use of 15,000 cars in a city like Abu Dhabi.



Desertec a giant solar energy project in Magreb

(El País, November 9, 2011)

For the Desertec Industrial Initiative (DII), the most ambitious energy project since the construction of the first nuclear power plant has now a set date and location for starting and even a destination for its first exports. The great plan to "plant" solar panels in the Sahara will start next year in Morocco, and between 2015 and 2016, Spain will be supplied with part of the electricity produced, if deadlines are met.

Headed by German companies such as EON, Siemens and Deutsche Bank, Desertec is an ambitious plan to **build dozens of solar and some wind plants, from Morocco to Egypt**, to be able to provide at least 15% of European electricity consumption by 2050. Participants also include Spanish companies such as Red Eléctrica and Abengoa Solar, French ones like Saint-Gobain, Enel and Terna from Italy and many more. The planned investment over the next 38 years is **400,000 million Euros**.

OBJECTIVES

- Create a framework for stimulating collaboration between governments and companies from the renewable energy sector to:
 - ✓ Promote sustainable development in Africa and the Persian Gulf
 - ✓ Support the internationalization of European companies in the renewable energy sector
 - ✓ Encourage the implementation of vital infrastructure projects
 - ✓ Improve the electricity supply to contribute to better living conditions
 - ✓ Encourage business relationships between European entrepreneurs and officials responsible for energy from Africa and the Persian Gulf
 - ✓ Contribute to the strengthening of the position of European industry



FORMAT

EXPO-CONGRESS

Congress:

Three days of conferences and presentations on the energy needs from invited countries, technological solutions and possible applications of renewable energy as well as their financing.

The meetings will be combined with activities that stimulate business contacts and public-private collaborations

Expo:

Exhibition for the presentation of renewable energy companies and the possible application of their technologies in projects, completed by B2B, G2G, meetings and workshops.



AREAS OF INTEREST

- Solar Energy
 - ✓ Photovoltaic
 - ✓ Thermal
 - ✓ Thermoelectric



- Wind Energy
 - ✓ Wind farms
 - ✓ Other applications



- Hydro Power
 - ✓ Mayor projects
 - ✓ Mini-hydro



- Biomass
 - ✓ Possibilities and applications



DATES

June 12th, 13th & 14th, 2013 – Casa Árabe “Arabic House” MADRID - SPAIN

COUNTRIES TO BE INVITED

- Maghreb: Algeria, Morocco and Tunisia
- Persian Gulf: Saudi Arabia, Qatar, United Arab Emirates, Kuwait and Oman
- West Africa: Cape Verde, Gambia, Ghana, Guinea Bissau, Guinea Conakry, Mali, Mauritania, Niger, Nigeria and Senegal
- Centre Africa: Angola, Cameroon, Chad, Equatorial Guinea, Central African Republic and Democratic Republic of Congo
- South Africa: Mozambique, South Africa, Zambia and Zimbabwe

ORGANIZER

ECM, European Conference Management: a company specializing in the creation, organization and management of international meetings to initiate and intensify business relationships.

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ORGANIZER REFERENCES

*XIII European Automotive Congress – September 2012
Hotel Hesperia, Madrid*



*XII European Automotive Congress – September 2011
Ministry of Industry, Tourism and Trade, Madrid*



*Brazil Business Meeting - June 2011
Parque Ferial Juan Carlos I – IFEMA, Madrid*



International Real Estate Congress – May 2010 - Parque Ferial Juan Carlos I - IFEMA, Madrid

XI European Automotive Congress – September 2010 – Ministry of Industry, Tourism and Trade, Madrid



II Expo-Congress InmoSolar Málaga – October 2010 – Trade Fairs and Congress Center, Malaga

