

OWEMES 2012

European Seminar

Offshore Wind and other marine renewable Energies in Mediterranean and European Seas

5 - 7 September 2012
Rome, Italy

Rome, January 2012

Dear Sir or Madame,

Modeling scenario suggests that wind energy will represent more than one third of all electricity production from renewable energy sources by 2020 in European Union. Moreover the European Wind Energy Association (EWEA) predicts a total wind energy installed capacity in 2020, equal to 230 GW including 40 GW offshore. The cumulative electric energy production at 2020 is 581 TWh. Onshore wind energy will remain dominant till 2030 but installations at sea will become increasingly important and the energy production (562 TWh) will become comparable with the onshore one (591 TWh) since 2030.

Offshore wind energy production in shallow waters is almost mature sector in the European Northern Seas, while projects in Mediterranean Seas are still at a very early stage level for shallow waters, but more advanced for deep waters by the research and development point of view.

Lots of opportunities can be achieved by the acceleration of the offshore wind technologies and the increasing interest of financial investors in this sector is a clear sign of the development of a new "green" economy that can reduce the negative effect of the actual global economic crisis.

Large size wind turbines on floating or tension leg platforms in deep waters, new materials applications, grid integration, operation and maintenance techniques are some of the incoming new technologies to be tested and deployed, while lowering costs.

Since 1994 OWEMES seminar has been a meeting point among industries, researchers and other institutional organizations; experts from all over the world have had the opportunities to exchange experiences and to start collaboration for common projects or initiatives. OWEMES 2012 is the 7th edition and do confirms this multidisciplinary feature, including also marine energies, and hopes to meet the challenges and demands by the related sectors to help developing new strategies and methodologies under an high level international framework.

OWEMES 2012 will be located in the exhibition area of EOLICA EXPO, the most important wind energy exhibition in Italy and will support new business development with the opportunity to learn more from one another's experiences, identify even more role in promote technology acceleration and seize future green investment opportunities for innovators and entrepreneurs in Mediterranean, Europe and worldwide.

Rome is again hosting the OWEMES Seminar and will welcome all participants with its historical monuments and unique atmosphere.

I am looking forwards to seeing you in Rome and I hope you will get profitable information from participation at this upcoming event.

Sincerely yours

Gaetano Gaudiosi

Executive Chair OWEMES 2012

tel. + 39 06 45426060; gaudiosi@owemes.org; www.owemes.org

GENERAL INFORMATION

Main scientific areas of the Seminar

- Wind
- Waves
- Currents
- Tides
- Thermal and salinity gradients
- Biomass
- Geothermal

Specific topics and keywords

1 Marine resources

Maps, database management systems, siting, sea use

2 Design, testing and technical developments

Foundations, mooring support structures, aero-elasticity, dynamics, materials, corrosion and fatigue, mechanical and electric components, construction methods, decommissioning, O&M technique, infrastructures, design standards, qualification and certification

3 Technology innovation

Large size turbines, new drive trains, superconductivity, sectional smart blades, control systems

4 Planning and economic aspects

Methods, barrier and constrains, national strategies, cost analysis, financing, opportunities (green jobs)

5 Environmental issues and legal framework

Social acceptance, procedures, specific impact assessments and studies, guidelines, legislation

Call for papers

Organizers welcome the presentation of papers. Authors are invited to submit their abstracts and papers according to the instructions and template that will be provided on the OWEMES Association web page (www.owemes.org) and in future communications

Save the dates

- Abstract presentation: 16 March 2012
- Paper acceptance: 30 April 2012
- Full text presentation: 30 June 2012

For the OWEMES 2012 Brochure check in: www.owemes-2012.eu; www.owemes.org

In case of your interest to participate to the Eolica Expo Mediterranean contact please the Organizing Secretariat: Eolica Expo-Artenergy Publishing Srl, email: claudio.molinari@zeroemission.eu; Tel. +39 02 66306866.