

## SPONSORS



EUROPEAN WIND ENERGY ASSOCIATION\*



GLOBAL WIND ENERGY COUNCIL\*



INTERNATIONAL ENERGY AGENCY-IEA WIND



ASSOCIAZIONE NAZIONALE INGEGNERIA DEL VENTO



BLUE H GROUP



Cittadella della Ricerca



## COLLABORATING ORGANIZATIONS\*

ANEV, APER, ARTI, COMUNE DI BRINDISI, EFEVENTI, ENEL, GREEN PEACE, ISES ITALIA, KYOTO CLUB, LEGAMBIENTE, OMC, SKY SAVER, STUDI RINNOVABILI, DAUNIA WIND, TREVI SPA, UNIVERSITÀ DI BOLOGNA, UNIVERSITÀ DI ROMA, UNIVERSITÀ DI TRENTO, CANTIERE NAVALE BALSAMO, RE POWER, VESTAS-ITALIA

## SEMINAR INFORMATION

### Technical Secretariat:

Dr. Gaetano Gaudiosi - OWEMES Association  
Phone / Fax : +39 06 45426060  
gaudiosi@owemes.org; gaetanogaudiosi@hotmail.com

Prof. Franco Rispoli - Sapienza Università di Roma  
Phone +39 06 44585233 Fax +39 06 4881759  
franco.rispoli@uniroma1.it

Organising Secretariat  
Phone +39 06 42014995 Fax +39 06 42390110  
secretariat@owemes.org

\* to be confirmed

## GENERAL INFORMATION

Seminar - The seminar will take place at the Conference Centre of Cittadella della Ricerca, Brindisi in May 2009 from Thursday 21 to Saturday 23 morning.

Organisers - The seminar is organized by OWEMES Association, ATENA and ENEA.

Organising Committee - The organising Committee has been appointed in March 2008 with members of the above organisations and Bologna, Rome Universities, with ANIV, CRIACIV, ISES Italia, Studi Rinnovabili and promoters BlueH, Daunia Wind.

Technical Committee - The Technical Committee will be appointed in July 2008 with members of Italian and other international organisations (EWEA, IEA Wind R&D, IEA Ocean, Germanischer Lloyd). OWEMES Association, the Italian organization for Marine Renewable Energies in the Mediterranean and European Seas, is responsible of the scientific organisation of the seminar.

Languages - Simultaneous translation will be provided in English and Italian.

Exhibition - An Exhibition of marine renewable energy material, an additional part of the event, open to industries and R&D organizations, is under proposal on Thursday 21st, Friday 22nd and Saturday May 23rd, at the conference hall.

Offshore picture competition "Sea Breeze" - An art competition for offshore wind and other marine renewable energies will be organized at OWEMES 2009 in collaboration with interested bodies. Prizes will be awarded to the first ten photos, exhibited in A4 format during the Seminar.

Registration Fee - The registration fee is 450 EURO before 28 February 2009 and 500 EURO after that date: student fee 50% discount (document required). The fee covers: attendance at all sessions, refreshments and lunches for the seminar days, a copy of the Proceedings, transport by special bus from/to Brindisi Airport and hotels, participation to social events (Social Banquet excluded). OWEMES 2009 Final Programme will be mailed within April 2009.

## INFORMATION FOR AUTHORS

Authors should submit an abstract of their paper in English before 15 October 2008. Abstracts received afterwards may not be accepted.

The abstracts should contain: 1) Topic letter and heading/subheading numbers (as given in the programme); 2) Titles; 3) Name of the author(s), affiliation, full address, telephone and Fax number, e-mail; 4) Purpose of the work; 5) Method of approach; 6) Significant results. The complete abstract must occupy no more than two A4 pages; additional information can be given separately.

Specific technical problems will be covered by the dedicated Poster session in addition to the planned five Oral sessions.

The Technical Committee reserves the right to accept or reject the proposed papers.

Authors will be notified of the Technical Committee decision within 30 November 2008.

The final version of the selected papers should be no more than 15 pages (tables, and graphs included) and must be sent to Technical Secretariat before 30 March 2009, otherwise it will be not included in the Proceedings distributed at Seminar Registration.

Please send the abstract by e-mail to Technical Secretariat:  
Dr. Gaetano Gaudiosi  
Associazione OWEMES - Via Antonio Serra 62, 00191 Roma, Italy  
Phone/Fax: +39 06 45426060  
E-mail: gaudiosi@owemes.org;  
gaetanogaudiosi@hotmail.com

or to

Prof. Franco Rispoli  
Dipartimento di Meccanica Aeronautica  
Sapienza Università di Roma  
Via Eudossiana 18, 00184 Roma Italy  
Phone +39 06 44585233 Fax +39 06 4881759  
franco.rispoli@uniroma1.it

## DEADLINES

Abstract presentation: 15 October 2008  
Paper acceptance communication: 30 November 2008  
Full Text paper presentation: 30 March 2009

A specific web page is available at the site:  
<http://www.owemes.org>

**OWEMES**  
Association

**ENEA**  
ENTE PER LE NUOVE TECNOLOGIE,  
L'ENERGIA E L'AMBIENTE

**ATENA**  
ASSOCIAZIONE ITALIANA  
DI TECNICA NAVALE

*European Seminar*

# OFFSHORE WIND AND OTHER MARINE RENEWABLE ENERGIES IN MEDITERRANEAN AND EUROPEAN SEAS




## Resources, Technology and Applications

*Wind, Waves,  
Current, Solar,  
Thermal and Salinity  
gradients, Biomass,  
Geothermal.*

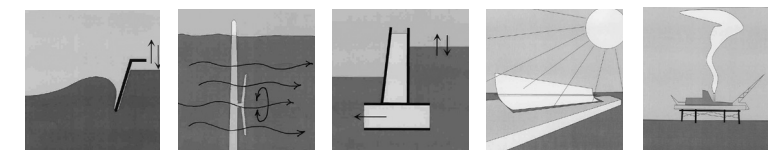
## Marine Renewable Energy Platforms

## OWEMES 2009

 Patrocinio  
dell'Assessore all'Ecologia  
della Regione Puglia

**Brindisi**  
Italy  
**May, 21-23, 2009**

**First Announcement  
and Call for Papers**



Abstract Deadline  
15 October 2008

The 2007 committed European Union's objectives on climate change require 20% reduction of greenhouse gases compared to 1990 levels and a mandatory target of 20% renewable energy by 2020 compared to present 8.5% .

Onshore renewable energies can offer a good percentage of such contribution, that could be significantly increased by marine (Offshore) renewable energies.

Some of them are at a good technological development (wind,wave,current,tides, thermal gradients, solar); estimates are under way for the other ones (biomass, geothermal, salinity gradients).

To be on line with the 2020 renewable energy targets the present 3.5 % wind energy share of electricity in EU member countries should reach 30% , level that could be obtained using offshore wind and other marine renewable energies.

In the last fifteen years the capacity of grid connected offshore wind plants has reached about 1.000 MW, all in North European shallow waters, where additional GW are close to or proposed for installation. The large offshore wind potential in deep water and its low visual impact is mounting as the future wind energy option.

On offshore sites, generally with higher wind, wave regimes, less human use limitations and higher installation and maintenance costs, the economy of marine electricity could progress rapidly. In the coming years it will reach competitiveness with the onshore renewable energies, particularly by large size units and power plants even in highly deep waters..

The technology of the offshore wind turbine is evolving rapidly for seabed-based foundations.

Offshore wind turbines on floating or tension leg platforms are in accelerated phase of design with promising kWh cost reduction . The first Tension Leg Prototype is under test in the Italian deep waters.

Marine Renewable Energy Platforms (MAREPs), could be assumed as integrated system of all marine renewable energies (Wind, wave, sea current, solar photovoltaic, ...) emerging for a medium/long term potential of cost reduction and resource increase in the field of electricity and hydrogen generation.

OWEMES 2009 is the Sixth edition of the European Seminar in Italy: the first edition was held in Rome (1994), the second one at La Maddalena (1997), the third one in Syracuse (2000), the fourth one in Naples(2003) , the fifth one in Civitavecchia ( Rome-2006) with a participation of qualified experts of Laboratories, Universities, Industries, Promoters from all over Europe, USA and some other countries.

Previous editions up to OWEMES 2003 have been mainly focused on offshore wind energy, both OWEMES 2006 and now OWEMES 2009 are including all marine renewable energies: the fast growing offshore wind, the emerging ones such as wave, currents, tides and new ones as Salinity gradients, marine geothermal, biomass.

The goal of the seminar is to make a specific and up-to-date review of ongoing activities and programmes in order to exchange information and promote co-operation among European, Mediterranean and other world countries in the promising field of marine renewable energy applications.

June 2008

Gaetano Gaudiosi

OWEMES 2009 Seminar Chairman

## European Seminar

### OFFSHORE WIND AND OTHER MARINE RENEWABLE ENERGIES IN MEDITERRANEAN AND EUROPEAN SEAS

21-23 May 2009 - Brindisi (Apulia Region) - Italy

#### Programme

*The two and half days programme comprises:  
Five sessions with oral presentation and One poster session*

#### Offers of papers

*Papers are welcome on the following topics*

#### MARINE AND COASTAL RENEWABLE ENERGIES

Topics:

**A) Wind; B) Waves; C) Current; D) Tides;  
E) Solar; F) Thermal and Salinity Gradients;  
G) Biomass; H) Geothermal.**

Headings, Subheadings:

#### **1. MARINE RESOURCES ASSESSMENT, SITING**

a) Characteristics; b) Resources; c) Maps, databases;  
d) Siting tools.

#### **2. DESIGN AND TESTING CRITERIA, TECHNICAL DEVELOPMENT**

a) Foundations; b) Mooring; c) Support structures;  
d) Aero-elasticity; e) Dynamics; f) Material;  
g) Corrosion and fatigue; h) Mechanical and electric components; i) Remote control systems;  
l) Electric power transmission; m) Construction, installation and decommissioning methods;  
n) Maintenance procedures; o) Offshore access ways;  
p) Design & testing recommendations;  
q) Failure analysis and safety; r) Standards, quality assurance.

#### **3. PROTOTYPES AND APPLICATIONS**

a) Unit configurations, prototypes; b) Offshore plant optimisation; c) Marine applications (harbours, buoys, platforms, ...).

#### **4. PLANNING, ECONOMICS**

a) Projects; b) Planning methods; c) Implementing aspects and constraints; d) National and international activities; e) Utility plans; f) Industrial strategies; g) Cost analysis; h) Financing; i) Insurance.

#### **5. ENVIRONMENT, LEGAL ISSUES**

a) Local and global environmental issues; b) Specific environmental studies; c) Safety guidelines; d) Social acceptance; e) National, International legislations.

#### **POTENTIAL AUDIENCE**

- Equipment Manufacturers and Suppliers;  
- Engineering Companies, Consultants/Promoters;  
- National Research Centres and University Labs.;;  
- National, Regional, and local Authorities and Policy Makers;  
- International Authorities, Associations;  
- Financial Companies, Investment Banks, Insurance Companies.

**European Seminar OWEMES 2009  
21-23 MAY 2009 - Brindisi (Apulia Region) - Italy**

#### **PROVISIONAL REGISTRATION FORM**

Please Type or use block letters and mail or Fax copy to:

OWEMES Organizing Secretariat  
Via Sardegna 55, 00187 Roma - Italy  
Phone: +39 06 42014995  
Fax: +39 06 42390110  
E-mail: secretariat@owemes.org

OWEMES Association  
Via Antonio Serra 62, 00191 Roma - Italy  
Phone / Fax : +39 06 42456060  
E-mail: gaudiosi@owemes.org

Surname.....

Name .....

Title/ Position .....

Company/Organization.....

Address.....

Postal code and town.....

Country.....

Telephone .....

Fax .....

E-mail .....

Please send further details when available.

My likelihood of attending the Seminar is:

25 %    50 %    75 %    100 %    (please tick)

I intend to submit an abstract before the deadline of 15 October 2008

on topic number..... heading.....

Signature..... Date.....

The registration fee is 450 Euro before 28 February 2009 and 500 Euro after that date; Student fee 50% discount (document required).

The fee covers: attendance to all sessions, refreshments and lunches for the seminar days (May 23 excluded), a copy of Proceedings, courtesy transport from Brindisi Airport to/From hotels and social events (social banquet excluded).