



A technical and scientific day dedicated to offshore renewable energies

On 26 November, as part of the Assises de l'économie de la mer programme, France Energies Marines is organising its second scientific and technical forum dedicated to renewable marine energies. This event, which will be held at the ITM Atlantic in Brest, will bring together the main players in the sector to discuss technical issues and present scientific advances in the field. The keynote speaker is Professor Torgeir Moan, an internationally renowned specialist in floating wind turbines. 20 scientists from the academic and private sectors will participate in 4 round tables on the following topics: bottom-surface connections, the study of extreme events at sea, national offshore test sites, trophic networks and the socio-ecosystem approach.

An event with high added value

Developing the research ecosystem in terms of renewable marine energies is the mission of France Energies Marines. Its annual forum, which aims to exchange views on the technical issues of the various players in the sector and the scientific advances in the field, is a unique event with high added value, thanks to its narrow format that is conducive to discussions shared with its audience. It is being held this year at the ITM Atlantique in Brest, on 26 November, as part of the Assises de l'économie de la mer off programme.

An internationally renowned keynote speaker

The keynote speaker is Torgeir Moan, an engineer and professor of marine technology at the Norwegian University of Science and Technology (NTNU). He has worked on the design and analysis of marine structures such as ships, oil platforms, wind turbines and floating bridges, often with a focus on safety aspects. Over the past 15 years, his research activity has focused mainly on floating wind turbines. Author of nearly 700 scientific publications, Torgeir Moan is a member of the Royal Academy of Engineering and the Norwegian Academy of Sciences and Humanities.

Cross-fertilization of academic research and the private sector

20 speakers from academic research and the private sector, in equal proportions, will present the results of the collaborative R&D projects coordinated by France Energies Marines. Four round tables will be held throughout the day in the following chronology:

- Food webs and socio-ecosystem approach: towards a better understanding of the effects of marine renewable energies on the environment
- Bottom-to-surface connections: the challenge of floating wind turbines
- Storms, cyclones, rogue waves: extreme events impacting marine renewable energy devices
- National offshore test sites: unique infrastructures to support the development of the sector

Innovative work that offers solutions for the future

- Several innovative works will be presented throughout the day, including
- Measurement campaigns carried out from a lighthouse at sea to better understand extreme waves that can endanger structures such as floating wind turbines;

- The development of anchoring lines for floating wind turbines allowing a smaller footprint;
- Taking into account the effects of biofouling on the cables and anchors of wind and hydro turbines;
- The presentation of MISTRAL, the first offshore test site dedicated to floating wind turbines in the Mediterranean;
- An approach combining ecology and socio-economics, applied for the first time to the study of the effects of marine renewable energies.

Contact: Mélusine Gaillard - melusine.gaillard@france-energies-marines.org - T. +33 (0)2.98.49.98.27

France Energies Marines in short



Identity: National reference institute for research on marine renewable energies

Labelling: Institute for Energy Transition (ITE) co-financed by the Big Investment Plan (IA), 26 projects accredited by the Bretagne Atlantique and Méditerranée competitiveness clusters

4 scientific and technical programmes:

- Tools and methods for site characterization
- Technology design tools for MRE applications
- Environmental and socio-economic impacts
- Farm architecture and network integration

Number of employees: 30 employees (25 FTEs)

Annual budget: €2 million

Date of creation: 15 March 2012

Location: Bâtiment Cap Océan - 525, avenue Alexis de Rochon - 29280 Plouzané - France

www.france-energies-marines.org