

Fos-sur-Mer, October 22<sup>nd</sup>, 2014

## **Floating wind test site in the Mediterranean Sea fully permitted**

During the 3<sup>rd</sup> General Assembly of the INFLOW (INdustrialization setup of a FLoating Offshore WInd turbine) demo project which was held on October 22<sup>nd</sup> 2014 it was announced that a key milestone of the project has been successfully reached: the offshore site for testing the novel floating vertical axis wind turbine (VAWT) to be developed during the INFLOW project has been approved and fully authorized by the responsible prefecture of the Bouches-du-Rhône department (the [official permission document](#) in French language can be downloaded here). This achievement has been made possible thanks to an extensive consultation process since 2011, involving all local stakeholders in the definition of the project.

The test site situated in the Mediterranean Sea 5 km off the coast at Port-Saint-Louis-du-Rhône can support two full scale floating vertical or classical wind turbines and will be operated by MISTRAL, a joint venture of the INFLOW consortium partners EDF Energies Nouvelles and Nénuphar. It will be the world's first offshore test site with multiple floating wind turbines.

Directed by French engineering company Technip and funded by the European Commission's Seventh Framework Programme as well as the Provence Alpes Côtés d'Azur regional council, the main target of INFLOW is to optimize the existing onshore VAWT prototype produced by its predecessor projects VERTIFLOAT and VERTIWIND and to manage all aspects required to initiate a viable industrialisation phase. With a high stability through the low centre of gravity and high reliability due to the missing yaw and pitch controls and gear box, VAWTs are a very promising solution for converting wind energy offshore.

For further information visit the INFLOW website at [www.inflow-fp7.eu](http://www.inflow-fp7.eu).

## List of project partners

- **Technip, France**

*Technip is a world leader in project management, engineering and construction for the energy industry. From the deepest Subsea oil & gas developments to the largest and most complex Offshore and Onshore infrastructures, over 30,000 people are constantly offering the best solutions and most innovative technologies to meet the world's energy challenges.*

<http://www.technip.com/en>

- **DTU Wind Energy, Denmark**

*DTU (Technical University of Denmark) Wind Energy department is composed of the former Wind Energy Division at Risø National Laboratory for Sustainable Energy. DTU together with Risø have provided a major part of the wind energy research in Denmark and are internationally recognized as being in the forefront of wind energy technology.*

<http://www.vindenergi.dtu.dk/English.aspx>

- **Alstom Hydro España, Spain**

*Alstom is a global leader in the world of power generation, power transmission and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies.*

<http://www.alstom.com/spain/about-us/>

- **Nenuphar, France**

*Nenuphar develops robust and economical floating vertical axis wind turbines with limited environmental impact for power producers who want to install floating offshore wind farms.*

<http://www.nenuphar-wind.com/en>

- **Fraunhofer Institute for Wind Energy and Energy System Technology IWES, Germany**

*The Fraunhofer-Gesellschaft is Europe's largest application-oriented research organization and active in the sectors health, security, communication, energy and environment. The research activities of Fraunhofer IWES cover wind energy and the integration of renewable energies into energy supply structures.*

<http://www.iwes.fraunhofer.de/en.html>

- **EDF Energies Nouvelles, France**

*Operating in 18 countries, mainly in Europe and North America, EDF Energies Nouvelles is a market leader in green electricity production, with a portfolio of 4991 MW of gross installed capacity and 2320 MW additional currently under construction. With a development focused on wind and solar photovoltaic energy, the Company recently entered 3 new promising markets: Africa, Middle East and India, and is expanding its business in offshore wind energy. The Company is also present in other segments of the renewable energy market: marine energy, biogas, biomass and small hydro as well as in distributed energies. EDF EN manages renewable energy projects' development, financing, construction as well as operation and maintenance*

*for its own accord and for third parties. EDF Energies Nouvelles is a 100 % subsidiary of the EDF Group and its renewable energy arm.*

<http://www.edf-energies-nouvelles.com/en>

- **Vicinay Cadenas S.A., Spain**

*Vicinay Cadenas S.A.'s field of business is the manufacturing of offshore mooring chains and -assesories as well as related engineering and design.*

<http://www.vicinaycadenas.net/eng/company/intro.html>

- **Vryhof Anchors BV, Netherlands**

*Vryhof provides drag anchors and related mooring equipment for larger floating structures to the offshore energy industries as well as for offshore civil applications.*

<http://www.vryhof.com/>

- **Eiffage Construction Métallique, France**

*Eiffage construction métallique, formerly known as Eiffel, is a subsidiary of Eiffage, major of construction and concession in France and Europe.*

<http://www.eiffageconstructionmetallique.com/index.php?LANG=EN>