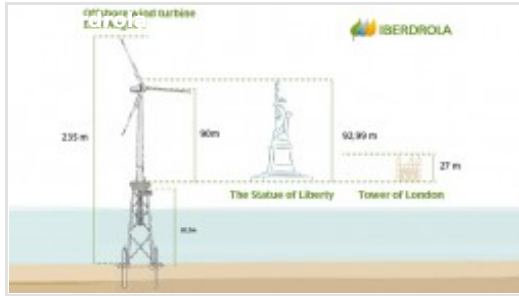


## ROMEOP WP7 advances focused on the activities of three offshore pilots

Contributed by: **ZABALA Innovation Consulting**

### ***WP7 partners met in London with the aim of advancing on the development of pilot projects***



Some ROMEOP Project partners met in London last 22nd of March to celebrate an internal meeting in order to advance in different tasks included in Work Package 7, focused on the three multi-scale offshore pilots foreseen in the ROMEOP Project.

The partners involved in WP7 had the opportunity to share the latest advances. This Work Package involves the testing of concepts/tools integrated in O&M information management system in a real operational environment of 3 multi-scale offshore pilots in Teesside (EDF – UK), Wikinger (Iberdrola – DE) and East

Anglia One (Iberdrola – UK).

A step-by-step demonstration and validation strategy will be implemented in order to validate the developments as a global Wind Farm Decision Supporting System.

Testing to verify functionalities

This Work Package, led by Iberdrola, will include all the necessary testing to verify the diverse functionality associated with the data analytic and O&M tools including all tests to confirm underlying components and modelling are aligned with the Work Package's expected results and KPIs.

The final goal is clear: to reduce the O&M costs of the offshore wind farms in order to make offshore wind energy even more competitive and fight against climate change.

Offshore pilots' advances

Iberdrola successfully connected last December the Wikinger wind farm to the power grid in Germany. With an investment of nearly €1.4 billion, Wikinger will prevent almost 600,000 tonnes of CO<sub>2</sub> from being released into the atmosphere each year and will supply renewable energy to approximately 350,000 homes.

For the Wikinger project, it is foreseen a preliminary reduction in substructure inspection visits. Additionally, for WTG it is expected a reduction in the number of person hours required for annual inspections.

Iberdrola, through ScottisPower Renewables, is also working on other offshore wind power projects, being one of the most important East Anglia One wind farms. The installation will be in operation in 2020 and is located in the south-east coast of England.

It will cover a total area equivalent to 30,000 football pitches and will include 102 turbines. The huge offshore East Anglia ONE wind farm will be one of the largest in the world and will supply around 500,000 British households, the equivalent of a large

city like Málaga (Spain).

EDF's Teesside offshore wind farm is located off the coast of north-east England, near the town of Redcar.

The 27-turbine scheme is capable of delivering 62 MW. The wind farm has the capacity to produce enough renewable electricity to meet the average annual needs of all the homes and businesses in nearby towns Redcar, Marske and Saltburn. The wind farm was grid connected in 2013.

## Contributor

<b>Organisation</b>	ZABALA Innovation Consulting Paseo Santxiki, 3 bis 31192 Mutilva Spain <a href="#">Website</a>
<b>Contact</b>	Communication Manager: Susana Garayoa Tel.: +0034 673 009 336 <a href="#">E-mail</a> <a href="#">See more news from this contributor</a>

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