MooringSense lays the foundation for a model to manage the structural integrity of FOW turbine mooring systems

Identifying the main limitations and shortcomings of current technologies associated with the management of mooring systems integrity and defining the project reference case that allows the evaluation of the planned developments comprehensively and realistically were the first two steps taken by the MooringSense consortium.

MooringSense is a European project, led by the CTC Technology Centre, which aims to reduce the maintenance cost—by up to 15%—and the operating cost—by 10%—of floating wind turbines used to generate offshore wind energy.

Six months after their launch meeting, the consortium’s nine members took stock of the progress made so far: development, translated into eight reports covering both the technical aspects and other issues related to the management processes, communication and management of the vast amount of data to be generated in MooringSense.
MOORINGSENSE CONSORTIUM

The consortium comprises 9 partners from Europe’s key OW industry and academia, including worldwide market leaders in chains, wires and ropes, both producing hybrid solutions for the mooring lines. They will collaborate to improve the understanding of mooring lines loading and performance, including a degradation mechanism.

MOORINGSENSE TECHNOLOGY

MooringSense will take advantage of mooring systems’ updated condition information, provided by a Digital Twin (DT) and innovative monitoring technologies, to allow the implementation risk-based integrity management plans and more holistic control strategies to reduce OPEX and increase energy production of FOW farms.

Saitec secures offshore site in BiMEP to install the first grid-connected floating wind turbine in Spain

Saitec Offshore Technologies and the open sea test site Biscay Marine Energy Platform (BiMEP) have signed today a contract to install DemoSATH project off the Basque Coast.

The world’s largest floating wind turbine is already hard at work

WindFloat Atlantic is the world’s largest offshore floating wind turbine. Connected to the energy grid off the Portuguese coast of Viana do Castelo, the turbine went online on New Years Day and began harvesting energy the day after. It’s a very big glimpse at the future of wind power.

This project has received funding from the European Union’s Horizon 2020 research and innovation programme under grant agreement No 851703