

Floating Offshore Platform for a 5MW Wind Turbine

NAUTILUS JOINT VENTURE

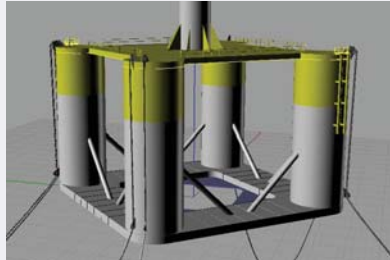
TECHNICAL DEVELOPMENT

Four column semisubmersible platform selected after a detailed analysis of different types of structures. A set of technical, economic and logistic factors defined to compare the concepts.

Design constraints attending to make the structure economically viable, reducing the logistics and means required for the manufacturing, assembly, installation, O&M and decommissioning of the structure.

Status of work: conceptual design, based on the functional requirements and the pre-sizing of the structure. Several tools developed to support the calculations and simulations –sizing, aerodynamics, hydrodynamics, moorings, cost model, structural calculation–

Next steps: the conceptual design will be validated in the basin test in 2014 (1:35 scale) Once the simulation models are calibrated, detailed engineering will lead to the 1:1 scale design.



MILESTONES



CONSORTIUM

NAUTILUS FLOATING SOLUTIONS S.L. is an industrial and technological consortium made up of four leading companies in advanced technology with presence in international markets and the applied Research Centre, TECNALIA, with the aim of becoming the world leader in the development of floating platforms for the offshore wind market.

ASTILLEROS de MURUETA, TAMOIN, TECNALIA, VELATIA and VICINAY started up this New Technology-Based Company (October 14th 2013)

