

**Navantia**

**JERME'16**

**Retos empresariales de las ERM's en España**



Madrid, 23 noviembre 2016


# JERME'16

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**Navantia**  
CLIENT CUSTOMISED  
SEA TECHNOLOGY

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Navantia Offshore Wind



Your partner at sea

## Navantia Offshore Wind

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### OFFSHORE WIND TARGET PRODUCTS

- FOUNDATIONS**

Jacket foundations for WTGs is a product absolutely in line with Navantia skills, our expertise on steel works represent an advantage when complicate high quality welding works and accurate dimensional control measures are needed. Moreover, our association with WINDAR for fabrication of foundations, provides flexibility and the right tools to accommodate demanding projects at competitive prices.



- OFFSHORE SUBSTATIONS**

Offshore substations require of a wide range of competences from engineering capabilities, 3D modelling and topside systems integration to steel works, heavy lift means and deep know-how of marine environment. All these attributes are well assumed in Navantia due to an extensive background in shipbuilding and Oil & Gas constructions.



Wikingier OSS Topsides
- INSTALLATION VESSELS**

Shipbuilding is Navantia's core business, all type of ships have been designed and built at Navantia shipyards, from the most high technology naval ships to large merchant, passenger, cruise and ferry types. All this experience is fully applicable to heavy lift and jack up vessels used for wind farms installation.

WINDAR (JV partner)





Wikingier OSS Jackets

R&D THE ONLY WAY TO SUCCEED




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## Navantia Offshore Wind

**OFFSHORE AND MARINE EXPERIENCE**

Navantia has wide experience in the O&G sector, having delivered complex FPSO, drillship and semisub projects. Navantia track record in Offshore Wind include jacket foundations, floating foundations and electrical substations.



**INNOVATIVE CONSTRUCTION STRATEGIES**

In-house developed construction strategies aimed to maximize under shelter works, mass production and optimization of yard facilities to achieve the most cost effective fabrication line from nodes and blocks prefabrication, to blocks assembly, blast and paint, final outfitting, roll up and load out onto transport barge.



Navantia Fene yard

**ENGINEERING AND FABRICATION CAPABILITIES SINERGY**


Engineering know-how and tools oriented to construction methodology and optimized use of Navantia facilities. With more than 700 engineers and a total workforce of 5.500 employees, Navantia aligns design and fabrication roles to achieve the most cost effective solutions.





Fene Yard, Spain (1.000.000 m<sup>2</sup>)



Puerto Real Yard, Spain (1.200.000 m<sup>2</sup>)



## Navantia Offshore Wind



Velázquez, 132. 28006 Madrid Spain  
Telephone: +34 913 358 400  
[www.navantia.es](http://www.navantia.es)

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