



Navantia

SEANERGIES



BETTER ENERGIES FOR A BETTER WORLD



Navantia Seanergies is the division of Navantia focused on the green energy sector, created in 2021 to boost its activity in this sector, where it accumulated a decade of experience in the offshore wind industry and hydrogen technologies.

Navantia is a public company, heir to a legacy of 400 years of shipbuilding history, which belongs to the Spanish state through the Sociedad Estatal de Participaciones Industriales (SEPI).

Our purpose is to contribute to the development of sustainable energies for the mitigation of climate change, committed to the global objectives of sustainable development.

Navantia Seanergies promotes strategic alliances, creating shared value, promoting collaboration and the development of knowledge from its Centre of Excellence, strengthening the industrial Network and the green energy value chain, and contributing to the creation of quality employment at both national and international levels.

OUR FACILITIES

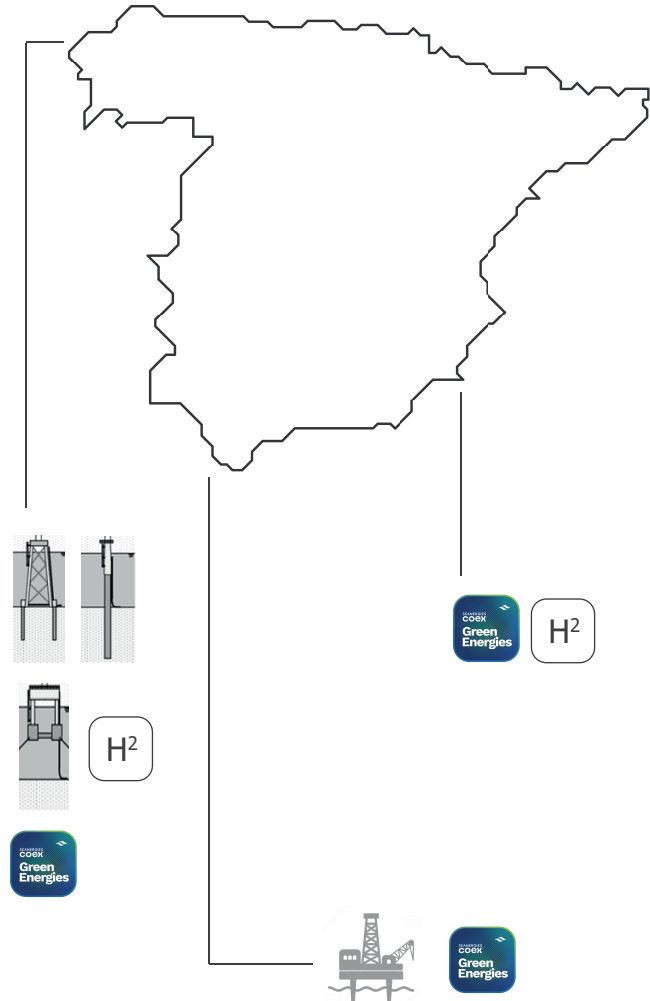
With over 2.5 million m2 of industrial land with access to the sea, in three locations, Ría de Ferrol (Galicia), Bahía de Cádiz (Andalucía) and Cartagena (Region of Murcia), Navantia Seanergies' facilities are equipped with the most advanced means of production, incorporating the demanding Shipyard 5.0 criteria, with high robotisation and digitised processes.

Navantia Seanergies, at its Fene facilities in the Ferrol estuary, specializes in both bottom fixed foundations -jackets and monopiles- and floating foundations. With fully adapted infrastructures to the production of these substructures, it also has a monopile factory as a result of our collaboration with Windar Renovables.

In Puerto Real, in the Bay of Cadiz, we design and build both AC and DC substations, as well as the foundations that support them.

In Cartagena we carry out projects for energy generation systems, based on hydrogen technologies, at the Turbines factory in Ferrol, there are facilities to produce high-power electrolyzers for the generation of green hydrogen.

In each of these locations there is a COEX Green Energies headquarters, Navantia Seanergies' Centre of Excellence, from which we promote the development of knowledge in a collaborative environment with companies, research centers, universities, and other stakeholders in the sector.







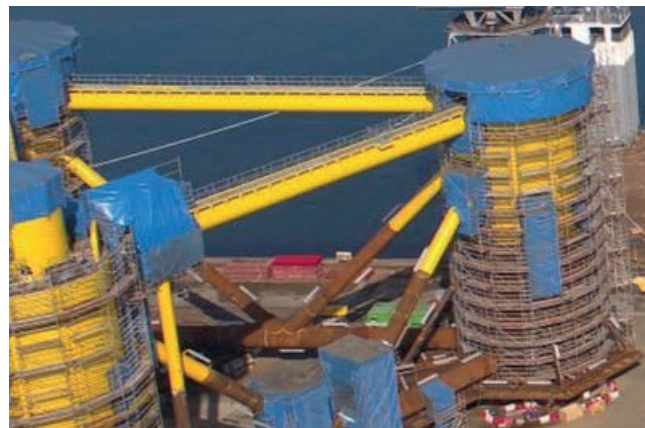
OFFSHORE WIND: THE INDUSTRIAL PARTNER YOU NEED WHERE YOU NEED IT

With the ability to manage end-to-end offshore projects, with EPC scope and over 10 years of experience in the offshore wind sector, Navantia Seanergies has proven to be a global supplier developing major projects for the main European developers, such as Iberdrola, EDP, Ocean Winds or Ørsted, in countries like UK, France and Germany among others, including projects located in other countries.

Navantia Seanergies has the capacity and experience to locate production wherever its clients require, contributing to the development of the local value chain. An example of this has been the execution of the Saint Brieuc project (2019-2023) for Iberdrola in Brittany, France. A successful formula with which to address the demands of distant countries such as the United States, Australia, and Korea, among others.

STRUCTURES PROVIDERS

In the offshore wind industry, we are European leaders in jacket foundations, we have proven experience in floating wind projects, we manufacture monopiles and we build substations and their foundations.

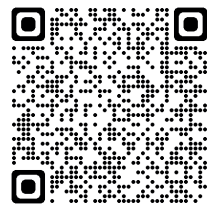
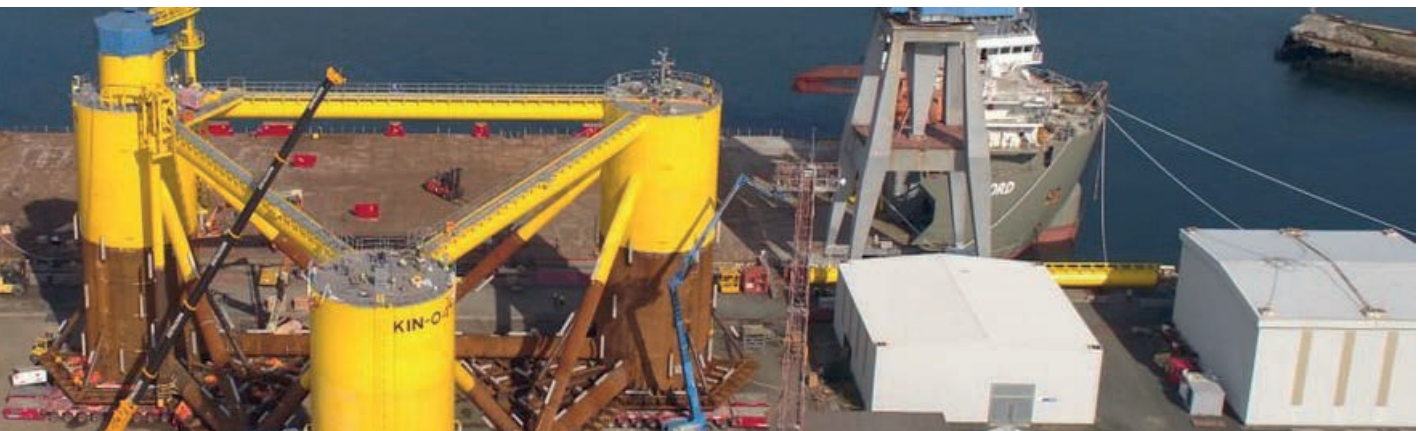


WIND FARM MAINTENANCE

Navantia Seanergies offers intelligent maintenance systems for wind farms, based on its knowledge and experience in Life Cycle Support for the ships that Navantia builds.

Smart products that include technologies such as virtual reality, augmented reality, digital training, remote assistance, structural health monitoring and modelling, integrated services of smart systems, unmanned drones, integration of digital twins of offshore wind farms including substations, and with artificial intelligence as a cross-cutting element.













PUERTO REAL SHIPYARD



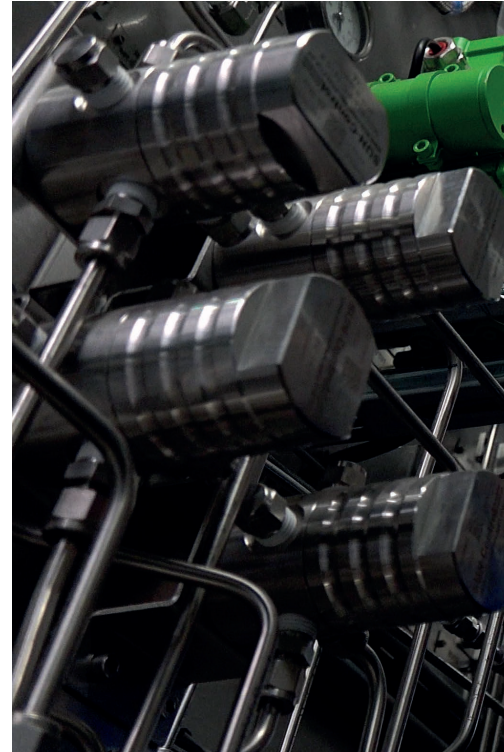
INDUSTRIAL CAPABILITIES AT THE SERVICE OF THE GREEN HYDROGEN VALUE CHAIN

Navantia Seanergies has deep knowledge of this energy sector, with over 15 years developing hydrogen technologies for the defence sector.

We focus our activity on capital goods, specifically on the assembly of high-power electrolyzers, both in PEM and alkaline technology, as well as supplying high-value services aimed at the commissioning of hydrogen generation plants and their subsequent maintenance.

For this purpose, we have specific facilities at our Turbine Factory in Ferrol, with an extensive experience in high-precision machining of large parts, as well as in the assembly of auxiliary propulsion equipment and complex energy generation systems.

Navantia Seanergies presents itself as a relevant player in the deployment of green hydrogen; to this end, we have a solid international network of partners and collaborators. All of this with the aim of contributing to the generation and distribution of green hydrogen, the fuel of the future.





COEX GREEN ENERGIES: DRIVING THE GREEN ENERGIES OF THE FUTURE

Navantia Seanergies' Green Energies Centre of Excellence promotes innovation, knowledge development and transfers, talent, and entrepreneurship in the sustainable energy sector through collaboration with customers, strategic partners, supply chain, SMEs, sector associations, R&D&I agents (universities, technology centers, etc.) and other stakeholders.

It drives the development of new solutions, as well as the competitiveness of companies, for the growth of strategic industrial capacities in the field of offshore wind energy, hydrogen and other marine energies.

With three sites in Spain located in Fene, Puerto Real and Cartagena, the Centre of Excellence is a lever for driving and strengthening the industrial network surrounding Navantia Seanergies, contributing to the development of the value chain for the construction of a sustainable and profitable future in the energy sector of the future.



Navantia Seanergies has a wide technological capacity. A successful case of innovation is the development of a knot welding robot for offshore structures. This robot incorporates an innovative tandem MCAW system which, among other factors, improves quality, fatigue resistance and knot manufacturing times. This solution was fully and successfully industrialized, being used by Navantia Seanergies in the execution of its jacket projects, which it is the only robot in the world to date with proven experience in welding knots in offshore jackets.





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