

Offshore & Marine

IDOM



The logo for IDOM, consisting of the letters 'IDOM' in a bold, dark blue, sans-serif font.

Our commitment,
your success

About IDOM

We are an **association of independent professionals** working in the fields of Consulting, Engineering and Architecture, united in our way of doing things and shared objectives, at the service of our clients.

- €324 M
turnover
- 65
years
- 125
countries
- 4,300
professionals
- 45
offices
- 920
partners

Our pillars

Our activity is governed by elements that allow **our professionals to grow and resolve the challenges of our clients.**

- We believe in **excellence**. We strive for excellence in everything we do.
- We believe in **the power of human relationships** as a motivating force to overcome difficulties.
- We are passionate about **resolving problems** that no one has solved before.
- **Innovation** is present in all our activities.



If you want to know more about our activity and our projects, scan this code with your phone to see our corporate video.

A photograph of an office environment. In the foreground, a man with glasses is seated at a desk, looking at a computer monitor displaying a 3D CAD model of a wind turbine tower. To his right, another man is seated at a desk, looking towards the right. In the background, a third man is working at a computer. A small white wind turbine model sits on a desk. The office has white shelves filled with books and papers. A poster with the IDOM logo and logos of the European Union and the Spanish government is on the wall.

Offshore & marine

“Sustainability, innovation and commitment, for the success of our clients.”

IDOM, with extensive expertise in the renewable energy sector, covers all phases of the project with multidisciplinary teams developing important technologically complex projects.

Our innovative mentality and our extensive experience is the differential value we provide our clients with, helping them achieve environment enhancement, sustainability and cost reduction.

Services

- Feasibility Studies
- Permitting
- Environmental and Consulting
- Conceptual / Basic Engineering
- FEED / Detailed design
- Special studies
- Project Management | Owner's Engineering

Markets

- Offshore wind farms
- Floating power plants & Vessels
- Marine energy
- Floating solar



Feasibility Studies, Permitting, Environmental and Consultancy Services

IDOM accompanies stakeholders of the offshore ecosystem to successfully overcome the hurdles and meet the challenges of embarking on a new project.

Some references

- **Floating OWF in Northeast Spain | 500 MW**
OWF pre-design and feasibility studies
- **Areas for OWF in Spain**
Feasibility studies of 36 different locations for offshore wind farms along the Spanish coast
- **Estrella Varada OWF | 200 MW**
Technical documentation for zone reservation
- **Offshore industrial plan** to satisfy market demands of France and the UK



Conceptual, Basic & Detail Engineering

IDOM offers a full range of engineering services, covering all disciplines (key aspects and areas of knowledge), successfully designing large and complex projects, achieving goals effectively and efficiently.

Advanced digital technologies (BIM, VR/AR...) allow us to offer new possibilities, cutting edge services to enhance the project delivery experience.

Some references

- St. Briec OWF | 496 MW
OSS Structure using BIM
- East Anglia I OWF | 714 MW
OSS Structure using BIM
- Monopile foundations (basic design)
for 3 OWFs in Spain





Special Studies

Safety, sustainability, risk mitigation and cost-effectiveness are the most important issues for IDOM. Drawing on our expertise and experience, we look ahead to help our Clients and their projects.

Some projects

- East Anglia I North OWF | 800 MW
Pre-FEED electrical studies
- East Anglia II OWF | 900 MW
Pre-FEED electrical studies
- East Anglia I | 714 MW
OSS electromagnetic field studies
- Wikingen OWF | 350 MW
Insulation studies for WTGs
- Floating OWF in Northwest Spain
Station keeping system design





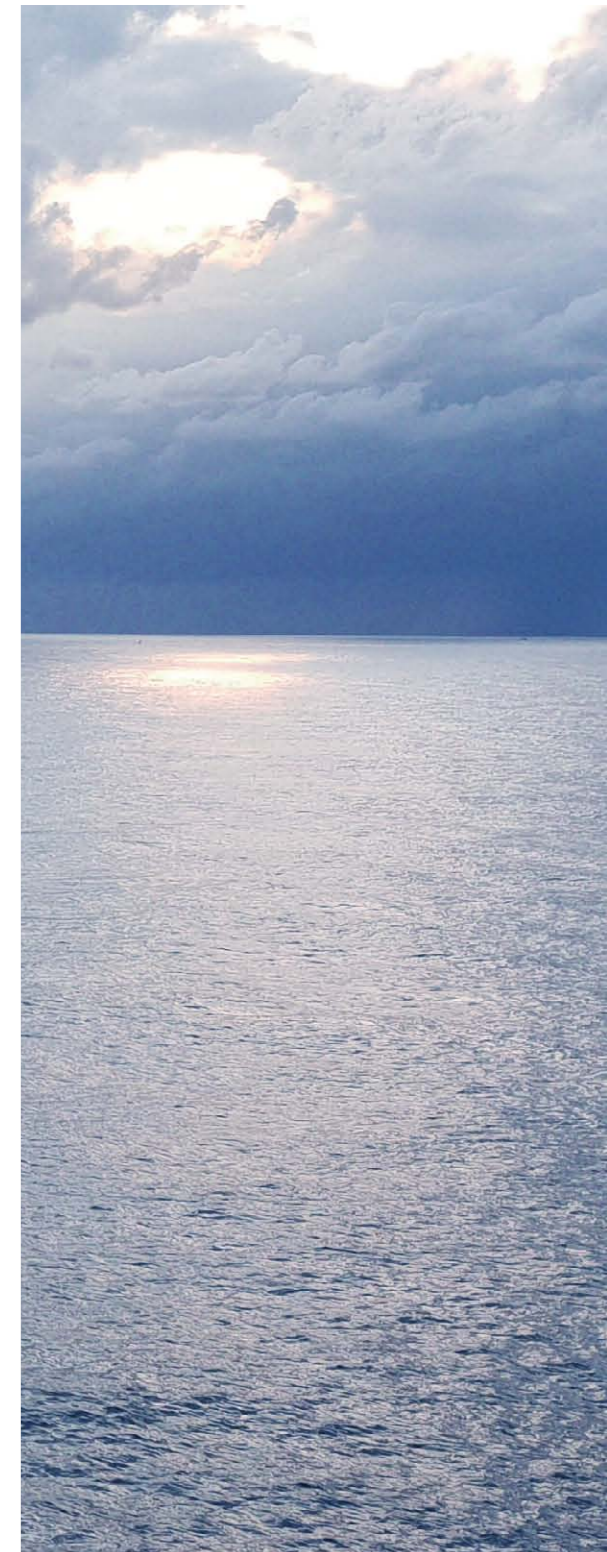
Project Management & Owner's Engineering

The added value of IDOM is the capacity offered by our global, multidisciplinary teams to resolve complicated situations with innovative solutions.

IDOM is working under framework agreements with offshore farm stakeholders to provide engineering and technical assistance, managing contracts and the control of projects.

Some projects

- **St. Briec OWF | 496 MW**
OSS LV and Auxiliaries Systems (incl. telecom) OE services
- **Baltic Eagle OWF | 476.25 MW**
Grid compliance, OSS LY & Auxiliaries Systems and SCADA OE services





Innovative ideas lead to technological solutions

As the offshore renewable energy sector is still developing, the goal is now to reduce costs, both investment and operating. IDOM is actively participating in the development of research and innovation projects.



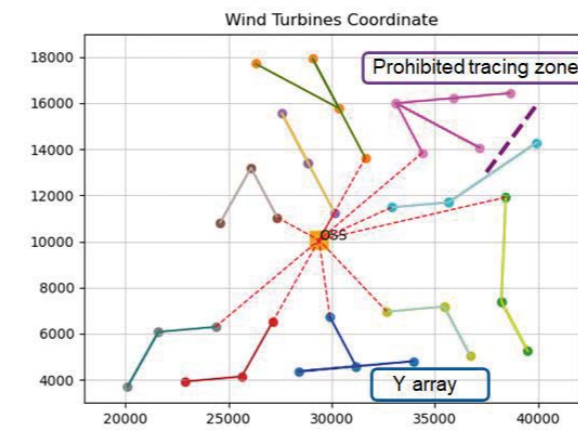
Wind2Grid

The WIND2GRID project with the involvement of the most important Basque offshore energy development companies and under the leadership of IDOM is the development of a floating substation.



Seapower

The SEAPOWER R&D project involves the design of an innovative jacket for wind turbines over 15 MW. This cutting-edge design optimizes costs, reduces weight and manufacturing time.



OWF Layout Optimization Tool

Exporting electricity is extremely costly. This tool, developed by IDOM, is an algorithm solution based on heuristic methods.



Marmok A-5

The MARMOK A-5 is a technological solution, a power wave energy converter (WEC). IDOM is working towards a commercial-sized WEC that will produce electricity at a competitive price.



Transmission & Distribution

Since 1957, IDOM has been providing highly specialized solutions for the electricity and industrial sectors, covering a wide range of products in the following areas of expertise

Services

- Network Planning
- Power System Assessment/Audits
- Power Regulation
- Electrical System Studies
- Design
- Owner's Engineering
- Construction Supervision
- Commissioning Supervision
- Consultancy

2000 MW HVDC Link
Interconnection Kenya-Ethiopia
500 kV DC - 400 kV AC



Canary Islands

Onshore Wind

For more than 25 years IDOM has been working worldwide participating in over 500 onshore wind farms projects. IDOM provides full range of services for new wind farms, repowering and dismantling

Services

- Owner's Engineering
- Technical-Economic Feasibility Studies
- Conceptual Design
- Permitting
- EIA
- EPC Bid Packages
- Basic Design
- FEED Design
- Detail Engineering
- EPC Contractor Bid Engineering Support
- On-site Construction and Dismantling Support/Supervision
- Pre-commissioning and Start-up Assistance

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marine-offshore@idom.com

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marine-offshore@idom.com

