



OR-SP

# Offshore Renewables

ode



### Permit Applications

Support in the preparation of wind farm permit applications and assessment of environmental impact, safety, metocean data, geophysical and geotechnical data, navigational and foundation considerations, and grid connection. Cost estimating and development planning, supply chain assessment, and operations and maintenance philosophies.

### Conceptual Design

Conceptual engineering, FEED, and development of a design basis incorporating site data and main technical issues based upon appropriate codes and standards. Typical studies include site layouts, outline foundation and wind turbine specifications, preliminary electrical system design, transformer platform functional requirements, grid connection requirements and techno-commercial risk analysis.

### Procurement & Contracting Strategy

Support and advice in the development of the contracting strategy, covering issues such as supply chain availability, identification of key contracts, and the development of detailed CAPEX and OPEX estimates, project schedules and risk registers.

### Construction & Installation Methodology

Development of construction and installation plans including consideration of logistics, vessel requirements and offshore / onshore installation methods.

### Operations & Maintenance

Development of the overall offshore wind farm operations and maintenance philosophies, taking into account a number of key considerations such as access / egress, maintenance vessel requirements, remote control & operability, services intervals, weather windows and emergency interventions.



ODE is an experienced offshore wind contractor focused on driving change in a transforming energy industry. With foundations in the UK renewables market and a track record spanning the globe, we have worked across 17 countries on over 60 projects with a total capacity exceeding 73GW.

### Some recent projects:

- Anma-do offshore wind farm (Hyundai Engineering Corporation)
- Codling Wind Park (Codling Wind Park Ltd)
- Baltic Power offshore wind farm (Baltic Power)
- Formosa 2 offshore wind farm (Macquarie)
- Dieppe-Le Treport and Iles d'Yeu et de Noirmoutier offshore wind farms (LEMS)
- Hai Long offshore wind farm (Yushan Energy / Northland Power)



# Changing energy

## Foundation and Transformer Platform Design

ODE has extensive experience in the selection and optimisation of WTG foundation geometry and jacket and topside design for offshore transformer platforms. Typical studies include foundation, jacket and topsides design, cost estimates, identification of the risks associated with the selection of the foundation structures, and the development of a basis of design.

## Complex Structure and Marine Analysis

ODE provides a complete range of structural and marine analytical services, including analysis of different offshore structures and various combinations of dynamic loadings.

## HSE & Risk Management

ODE provides a full range of HSE related services, typically involving the preparation of safety and environmental plans, definition of philosophies, risk analysis, and access / egress studies.

## Technical Specifications & Tender Preparation / Evaluation

ODE draws on its extensive wind farm experience in the preparation of basis of design, technical and functional specifications, and other documentation for inclusion within the technical sections of a Request for Quotation (RFQ), a Request for Information (RFI) or an Expression of Interest (EOI) package. We also undertake full technical reviews in order to identify, assess and make recommendations relating to technical proposals.

**Energy is changing and we are the energy for change.**



## Factory & Site Acceptance Tests

ODE provides independent factory and site acceptance test verification services including written procedures, inspection documentation, punch list resolution and witnessing factory acceptance tests.

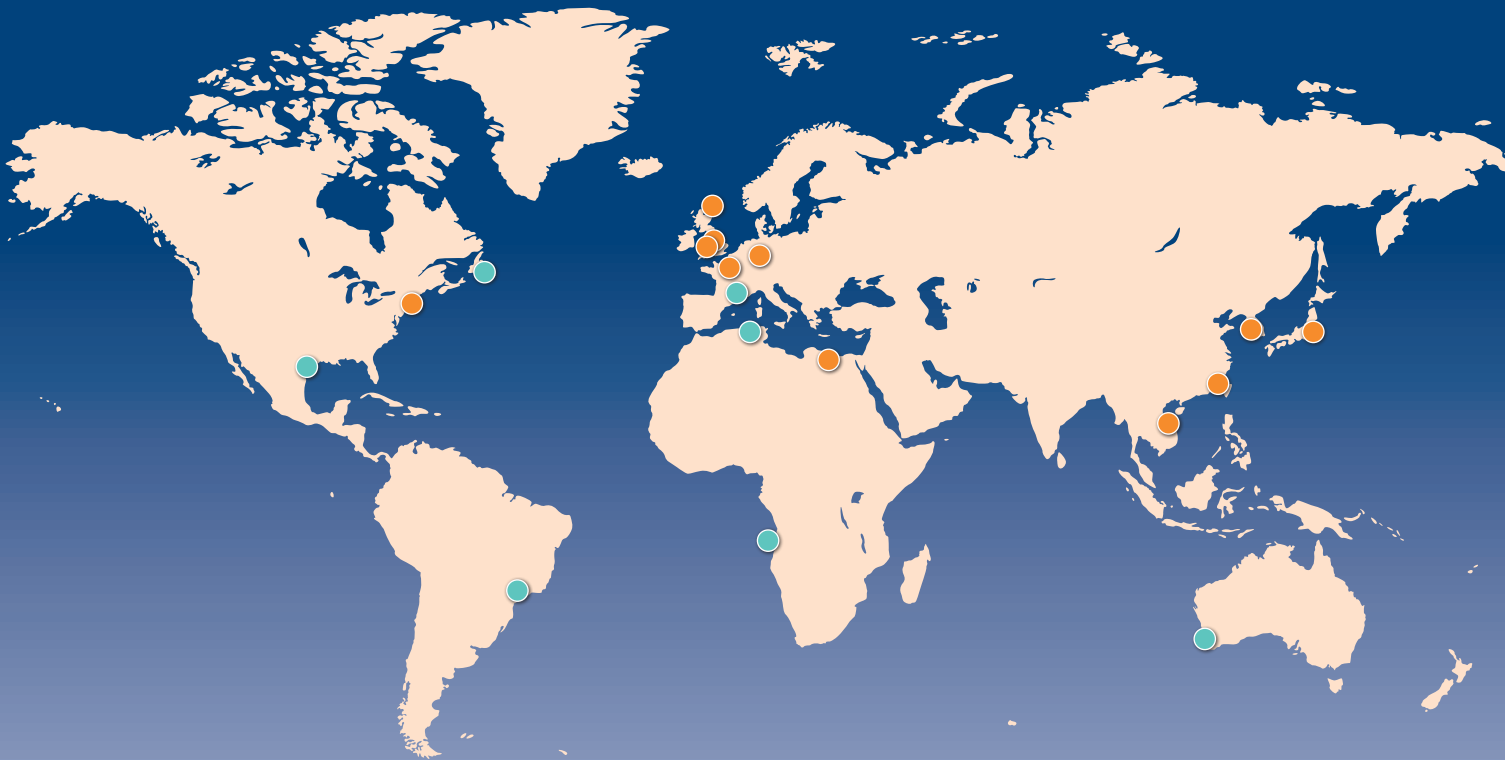
## Operations Planning, Materials & Logistics Support

Practical support to meet the requirements of the operations and maintenance regime for offshore wind farm assets. This includes vessel sourcing, warehousing and procurement.

- Project management through to construction
- Substation innovation and design
- Technical support at all project stages
- Providing contractor interface and owner's engineer
- Operations and maintenance of offshore assets



# Energy is changing and we are the energy for change



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ODE is a subsidiary of DORIS,  
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