

Offshore Renewables



ode
A DORIS Group Company

think safety
design safety
deliver safety

the **ode** way

Permit Applications

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

Conceptual Design

Conceptual engineering, FEED, 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, development of detailed CAPEX and OPEX estimates, project schedule and risk register.

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, emergency interventions.

ODE is the UK's most experienced offshore wind contractor. We have been involved in the majority of the UKs offshore wind farms, providing a range of services, including the construction management for the installations of a number of wind farms totalling nearly 1GW of installed capacity.

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Some Recent Projects

LEEDCo	Icebreaker Project, Great Lakes
Vattenfall	Ormonde
Vattenfall	Kentish Flats
Iberdrola	Wikinger
Greater Gabbard Offshore Wind	
Tysk Offshore Wind	Dan Tysk
E.ON UK	Scroby Sands
RWE Innogy	Galloper
Baryonyx	GoWind Demonstrator

We believe there is a smarter way

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.



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

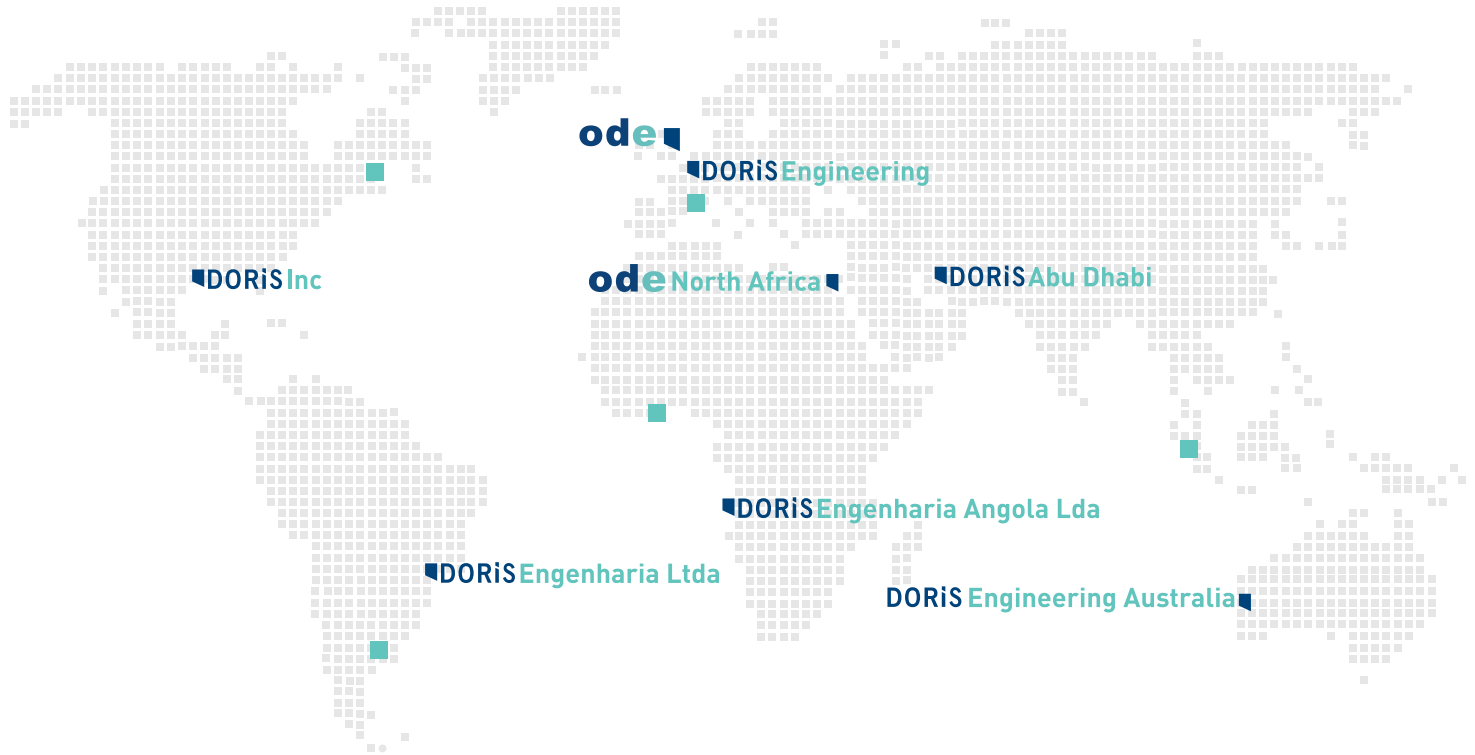
Practical support to meet the requirements of the operations and maintenance regime for onshore and offshore wind farm assets. This includes vessel sourcing, warehousing and procurement.

Engineering solutions for the next generation challenges

- Project management through construction
- Substation innovation and design
- Technical support at all stages of a project
- Providing contractor interface as client's engineer
- Operation and maintenance of all offshore assets



Our commitment and reach match our clients' needs. How can we support you?



London

St George's House
5 St George's Rd
Wimbledon
London
SW19 4DR
t: +44 (0)20 8481 1190
f: +44 (0)20 8546 4346

Great Yarmouth

Marine Base
88 South Denes Rd
Great Yarmouth
Norfolk
NR30 3QF
t: +44 (0)1493 845100
f: +44 (0)1493 857568

Cairo

ODE North Africa
Building 24
Road 270
New Maadi, Cairo
Egypt
t: +20 225 172 630/1
f: +20 225 172 632

Paris

DORIS Engineering
58 A Rue Dessous des Berges
75013 Paris
France
t: +33 1 44 06 10 00
f: +33 1 45 70 87 38

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A DORIS Group Company



bd@ode-ltd.co.uk
www.ode-ltd.co.uk

ODE is a subsidiary of DORIS
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provider in the energy industry.