



Renewable Energy

JDR is a pioneer in the development of Submarine Power Cables for offshore wind, wave and tidal energy projects. Our commitment to technology developments and client-focussed delivery on some of the world's largest offshore wind farms has earned us an industry leading reputation to provide the vital connection.

Leading the development of submarine power cable design, manufacture and services creating robust product systems for offshore wind farms across the globe from East Anglia One to Formosa to Vineyard to the subsea equipment for Wave Hub, the world's largest and most technologically advanced open access site for the testing and development of offshore renewable energy technology.

JDR's Field Services teams support the renewables industry; from project installation consultancy, to pre-commissioning, with full product life cycle support including repair and maintenance.

JDR is leading the development of the next generation of voltages for dynamic and static application enabling the continued exponential growth of the offshore renewables industry. Our product development is focused on innovations that improve our product capabilities and ensure long-term performance, reliability supporting the future growth of the industry.

**Providing the
Vital Connection**

Expert solutions across the full lifecycle

JDR offers a complete package for the offshore renewable industry; from the design of subsea cable systems, to manufacture and field service support.

✓
**FRONT END
ENGINEERING
& DESIGN**

✓
**PROJECT
EXECUTION**

✓
**PRODUCT
& SERVICES**

✓
**ASSET
MANAGEMENT**

Brighter Future
in Energy



Experienced offshore wind design engineering team

A team with in-depth industry knowledge of inter-array cable design and accessories including pulling grips, hang-offs, connectors and fibre optic splice boxes. The engineering team partners with customers during the design phase to create the most reliable products in the industry.

Project management

JDR's Project teams are primarily focused on delivering the promises, expectations and high standards that our clients expect from us.

Through a structure of industry leading processes and support functions we are able to fully assist our clients to deliver a successful project on time and on budget.

With the ability to be agile and responsive we ensure that as projects evolve and clients expectations change, JDR maintains the delivery expected of a market leader.

Advanced manufacturing

Planning approval has been granted to JDR and the construction of the new state-of-the-art subsea cable manufacturing facility in Cambois, near Blyth, Northumberland will begin in the summer of this year, with the facility set to open in 2024. The new facility represents the next phase of expansion for JDR, bringing more production capacity for longer-length and higher voltage offshore cabling to support the expanding offshore renewable energy sector. In doing so this will bring more high technical skilled jobs to Cambois, Northumberland, and the North-East of England, providing new opportunities and supporting the industrial renaissance gathering pace in the region. JDR's investment goal is to support the UK offshore wind sector in achieving its target of 40 GW of offshore wind by 2030 and will support the UK and many other countries around the world to achieve their net-zero carbon emission target by 2050.



Specialist field services

Complete lifecycle support from pre-commissioning to installation support; designed to maximise investment in product and lower equipment ownership costs.

Building strong customer connections

We work closely with our clients, from project analysis and engineering design through to manufacture, mobilisation and lifecycle support.

- Our close collaborations with clients help us to create innovative products that consistently deliver in line with the needs of each project
- We offer an excellent standard of service at every level, trusted across every stage of the project lifecycle
- We go beyond keeping clients informed by making every client aware of anticipated longer-term industry developments

Committed to long-term industry developments

By investing in long-term technology developments, JDR is supporting the evolution of cost-effective renewable energy production, importantly for offshore wind; utilising its latest technology advances from high voltage cable technology to new aluminium cores.

- DECC-supported work on high-voltage inter-array cables that will improve power capacity by increasing array cable voltage ratings from 33 kV to 66 kV
- Investigating: how dynamic ratings could reduce cable conductor sizes and subsequent material costs; and how strain sensing fibre optics can be used to minimise installation issues
- Transferring oil and gas experience to renewable energy subsea applications such as pre-terminated inter-array cables
- New aluminium conductor core inter-array cable; XLPE insulated and type tested to IEC63026 and Cigre TB722 and for Dynamic Cable Cigre TB862