



PROVIDING THE VITAL CONNECTION



## The World's Largest Offshore Windfarm

JDR to deliver over 200km of subsea power cables for Greater Gabbard

**Set some 22.5 miles off the Suffolk coast, Greater Gabbard will be the first UK offshore wind farm to be built outside territorial waters, using up to 140 wind turbines to generate over 500 megawatts of renewable electricity, enough to power more than 415,000 homes and equivalent to the approximate domestic demand of the county of Suffolk.**

The scope awarded to JDR includes over 200 km of inter-array subsea power cables and associated terminations which will provide the essential links between the 3.6MW turbine generators and the Gabbard and Galloper offshore substations.

JDR's strategically located facilities are well positioned to service the multiple offshore projects planned for the region.

## 200km of Inter-Array Subsea Power Cables for the Greater Gabbard Project



JDR was recently awarded a contract by Fluor Ltd for the supply of inter-array cables for the Greater Gabbard offshore wind farm.

Under development by Airtricity, the renewable energy development division of Scottish and Southern Energy Plc (SSE), Greater Gabbard will be the world's largest offshore wind farm upon completion in 2011.

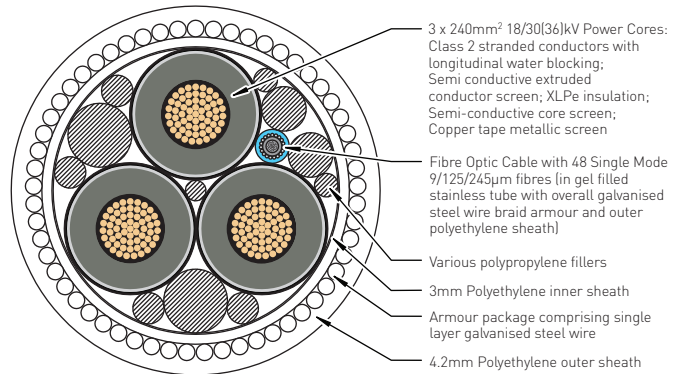
The company's strategically located facilities on the UK's east coast have been built to service the multiple offshore windfarm projects in the region, offering lifecycle engineering and technical support to the evolving renewables market and providing fully verified electrical and optical packages for a diverse range of applications.



Hartlepool Dock

### MECHANICAL DATA

#### 240mm CU, 18/30(36)kV Subsea Power Cable (111mm OD)



### PROJECT OVERVIEW

The JDR custom designed, manufactured and supplied products will form 200 km of inter-array subsea power cables and terminations which will provide the essential link between the 140 3.6MW wind turbine generators and the Gabbard and Galloper offshore substations.

The cables, to be delivered during the course of 2009 and 2010 from the UK division's headquarters in Littleport and the deepwater quayside manufacturing facility at Hartlepool Dock, each comprise 3 phase 18/30(36)kV power cores and fibre optic communications.

These will be engineered to give the smallest diameter whilst still maintaining the strength and weight required to suit the field installation and service conditions.

The phase conductors will be insulated with XLPe and a triple extrusion process used for simultaneous application of the conductor screen, insulation and metallic screen.

JDR will provide flexible pull-in terminations and hang-offs.

JDR Cable Systems will also provide experienced and certified technicians to terminate the cables and fibre-optics offshore during the installation phase.



**JDR is an experienced provider of dynamic and static subsea power cables to suit a host of operational requirements.**

In the offshore sector, JDR has demonstrated flexible and innovative design and engineering approaches for inter-turbine array cables and termination installations and has established a reputation as a responsive and collaborative engineering resource.

JDR is a leading worldwide provider of custom designed and manufactured subsea power cables, umbilical systems and specialised marine cables for a broad range of applications in the oil and gas sector, seismic and defence market and the growing offshore renewables industry.

For more details on JDR's Subsea Power Cables and associated services please contact:

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