



FULL TURNKEY SOLUTIONS

Supporting the complete wind farm lifecycle topside and subsea

As part of the Global Marine Group (GMG), CWind provides topside, splash zone and subsea engineering services, and Global Offshore delivers power cable installation, repair and trenching services to the offshore renewables and utilities market.

With experience at 50 offshore wind farms, the two business units are established, trusted partners with financial backing and stability. Utilising Group assets, engineering expertise and successful project delivery experience, GMG has the capability to provide a comprehensive portfolio of service offerings including turnkey projects, and on-going operations & maintenance support.

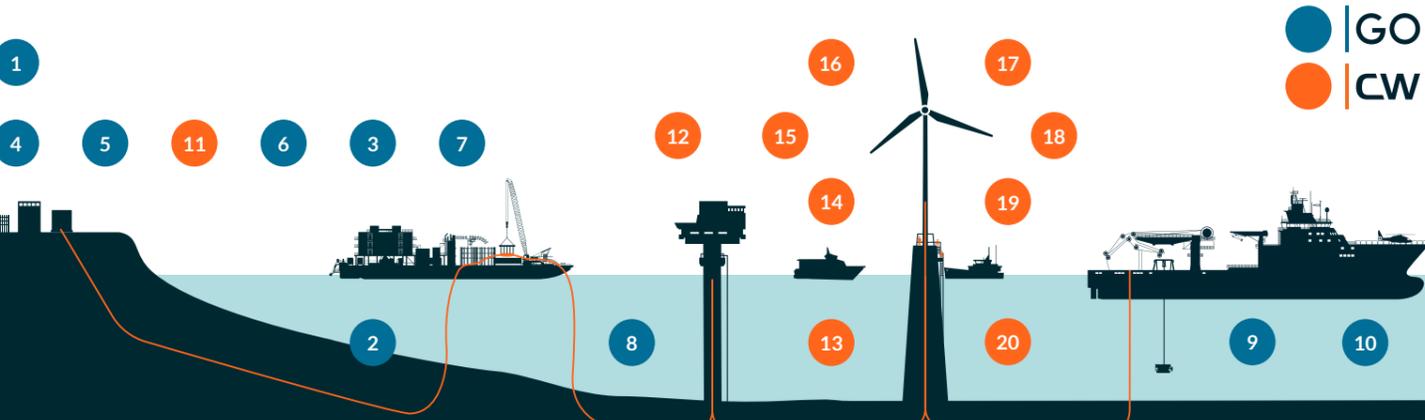
GMG launched its Complete Cable Care solution to the market early in 2018, extending the company's capabilities to meet operators' and owners' needs across every stage of a project lifecycle.

The Group has been in offshore wind since its concept and was responsible for installing the inter array cables at the UK's first offshore wind farm, Blyth in 2000, then installed cables at Horns Rev in 2002, which was Europe's first offshore wind farm, and in 2004 installed the cables at the Kentish Flats the UK's first commercial offshore wind farm.



Single point of access, supporting the complete wind farm lifecycle

<p>1 Power Cable Storage</p> <p>Safe storage & easy access to valuable assets within a purpose built facility, providing protection from harsh environmental conditions</p>	<p>2 Cable Monitoring</p> <p>Our system provides pre-emptive data on potential fault areas on your cable, enabling you to take proactive measures to prevent costly failures</p>	<p>3 Complete Cable Care</p> <p>Your risk reduction & repair partner. An end-to-end turnkey solution, providing rapid mobilisation for planned & emergency cable maintenance, minimising downtime</p>	<p>4 Data Management</p> <p>Protect the integrity of your data to ensure records are updated in an accurate & timely manner following a cable repair</p>	<p>5 Pre-Field Planning</p> <p>Seabed surveys, route engineering & cable fault analysis, provides you with the information you need to take your concept through to design & implementation</p>
<p>6 FEED Studies</p> <p>Our in-depth FEED studies help you identify the viability for developing an offshore wind farm & selecting the most cost-effective design</p>	<p>7 Power Cable Joint Management</p> <p>We hold & maintain a stock of HV joints & can provide jointing solutions at short notice, via qualified & experienced personnel</p>	<p>8 Subsea Survey Solutions</p> <p>A cost effective solution, minimising future threats & identifying preventative actions via detailed insights into seabed conditions</p>	<p>9 Cable Installation</p> <p>Projects completed by experienced teams and capable assets with a proven track record of more than 850 inter array cables successfully installed</p>	<p>10 Cable Trenching & Protection</p> <p>Precision trenching of subsea cables in challenging seabed environments, with the highly capable Q1400 jet trenching ROV</p>
<p>11 CWIND Training</p> <p>Our fully accredited UK training centre offers a range of GWO & bespoke safety courses to the offshore wind industry</p>	<p>12 Technicians & Engineering Support</p> <p>Access to certified & experienced turbine technicians as well as in-house project engineering capabilities</p>	<p>13 C-LING Advanced Sealing Technology</p> <p>Reinstating the intended corrosion prevention strategy for the foundation, with no on-going maintenance requirements</p>	<p>14 Surface Effect CTV</p> <p>Committed to investing in innovation. Working with ESNA to create a design for the future of CTVs to maximise efficient & safe crew transfers</p>	<p>15 Operations & Maintenance</p> <p>Delivering integrated and effective O&M solutions for scheduled & unplanned activities to maximise asset life expectancy</p>



<p>16 Full Corrosion Protection</p> <p>Services include: inspection, procurement, application & transportation to maximise asset lifetime</p>	<p>19 Temporary Power</p> <p>A constant, efficient & safe power supply for the smooth & uninterrupted construction & maintenance of a wind farm.</p>	<p>18 Inspections & Maintenance</p> <p>A comprehensive range of services available at the turbine and offshore substation</p>	<p>19 Cable Pull-In & Terminations</p> <p>Experienced technicians who can work quickly yet handle your precious cables with care. Over 890 have been completed to date</p>	<p>20 Crew Transfer Vessel Charter</p> <p>Transporting technicians quickly, safely & comfortably, to & from site with a fleet of 21-owned CTVs & long-term charters</p>
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Innovating for the future...

Delivering Excellence Since 2009, we have provided service support for over 13 GW of power generated by the offshore wind sector across 50 European wind farms

Safety First In 2017, CWind's CTV fleet conducted 51,116 crew transfers, all without injury. Additionally, GMG worked 2.1 million hours, with a lost time incident frequency rate of 0.97

The Global Symphony, our capable vessel delivering cable installation and trenching projects



Against the market average of 100 days, our Complete Cable Care solution reduces downtime by approximately 60%.

Providing a single contracting entity, Complete Cable Care, saves internal management fees, reduces risk, and delivers interface management with seamless project execution.

Our dedicated vessel, the ASV Pioneer, a fully mobilised cable repair platform based at our offshore service hub in Blyth, is capable of conducting operations from the beach up to 50m water depth, in a range of seabed conditions. We can also minimise interruption utilising our stock of HV joints, providing jointing solutions at short notice.

We're already working in partnership with Vattenfall, Transmission Capital Partners and Scottish & Southern Electricity Networks to deliver proactive and responsive cable repair and replacement frameworks.

Your risk reduction & repair partner

Next generation CTVs:

Surface Effect Crew Transfer Vessels

- Reduced emissions
- Significant fuel savings
- Very low fuel oil consumption: 330 l/hr at 38 knots
- Boosted battery performance
- Sustainable green technology for the future
- Reduced maintenance costs

At CWind, we're passionate about the future of offshore wind, which is why we are committed to investing in the design of the next generation of crew transfer vessels.

Working with ESNA, we have developed an Surface Effect CTV that combines high speed and high wave height to deliver effective turbine transfer.

C-LING

Comprehensive corrosion prevention solution

Working in partnership with Advanced Insulation (AI), we can provide an engineered sealing solution for offshore wind turbines and other infrastructure. The solution can be retrofitted, and once installed, the C-Ling® solution will minimise corrosion within the internal structure of the foundation by preventing the exchange of water.

The C-Ling® solution reinstates the intended corrosion prevention strategy for the foundation.

- Risk free installation:** No removal of, or damage to cables and no heavy lifting operations required
- Engineered solution:** Monopiles, j-tubes and jacket foundations
- Fit and Forget:** No electricity or on-going O&M costs

Experience at 50 wind farms across Europe to date

Key:

-  Cable Installation & Trenching
-  CTV Charter & Support
-  Technicians & Resources
-  Complete Cable Care

-  Full Corrosion Protection
-  Cable Pull-Ins & Terminations
-  Operations & Maintenance
-  Temporary Power

-  Subsea Survey Solutions
-  Training
-  Inspections & Maintenance

Alpha Ventus, North Sea



Amrunbank, North Sea



Baltica, Baltic Sea



Barrow, Irish Sea



Beatrice, North Sea



Belwind, North Sea



Blyth, North Sea



Borkum Riffgrund, North Sea



Borkum Riffgatt, North Sea



BorWin 1, North Sea



Burbo Bank, Irish Sea



Butendiek, North Sea



Egmond aan Zee, North Sea



EnBW Baltic 2, Baltic Sea



Galloper, North Sea



Gemini, North Sea



Global Tech 1, North Sea



Gode Wind 1 & 2, North Sea



Greater Gabbard, North Sea



Gunfleet Sands, North Sea



Gwynt y Môr, Irish Sea



Hornsea, North Sea



Horns Rev 1 & 2, North Sea



Humber Gateway, North Sea



Hywind Scotland, North Sea



Kentish Flats, North Sea



Kincardine, North Sea



Lincs Offshore, North Sea



London Array, North Sea



Lynn & Inner Dowsing, North Sea



Meerwind, North Sea



Merkur, North Sea



Nordergründe, North Sea



Nordsee Ost, North Sea



Ormonde, Irish Sea



OWEZ, North Sea



Parkwind, North Sea



Princes Amalia Q7, North Sea



Race Bank, North Sea



Rampion, English Channel



Robin Rigg, Irish Sea



Scroby Sands, North Sea



Sherringham Shoal, Irish Sea



Teeside, North Side



Thanet, North Sea



Thornton Bank, North Sea



Walney 1 & 2, Irish Sea



West of Duddon Sands, Irish Sea



Westermost Rough, North Sea



Wikinger, Baltic Sea



Information refers to all projects completed from 2001 to present day - Information correct at time of print (Q4 2018).

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