

James Ritchie, CEO of Tekmar plc and Chair of Energi Coast, said: *"Offshore wind is a central part of the world's clean energy future due to its renewed competitiveness and scalability."*

"Delivering it requires an innovative supply chain to produce effective and efficient technology and services that supports the construction, operation and maintenance of offshore windfarms, which is something the North East has done successfully."

LOCAL PROJECTS
"With the up-and-coming local projects such as Sofia and Dogger Bank we have a capable experienced and competitive local supply chain ready to raise to the challenge."

Founded in 2011 by energy sector business development experts NOF, Energi Coast is growing in prominence following the announcement of the Offshore Wind Sector deal, which includes the commitment to develop strong regional clusters across the UK to maximise on the opportunities the industry offers.

MAJOR CONTRIBUTOR
 Joanne Leng MBE, Deputy Chief Executive of NOF and Deputy Chair of Energi Coast, said: *"This region has been instrumental in the establishment of the UK offshore wind industry and has led the way as a major contributor to local content with innovative technology and services."*

"As a result, NOF has been dedicated to supporting the cluster through Energi Coast by providing companies with a respected and recognised platform to showcase their expertise and experience."

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 North East England's Offshore Wind Cluster

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SUPPLY CHAIN MATRIX

NORTH EAST ENGLAND'S OFFSHORE WIND CLUSTER 2019

WindEnergy NETWORK

Energi Coast
 North East England's Offshore Wind Cluster

Energi Coast
 North East England's Offshore Wind Cluster

Leading the way

NORTH EAST ENGLAND OFFSHORE WIND CLUSTER LEADS THE WAY FOR SUPPLY CHAIN COLLABORATION AND INNOVATION

The North East of England has been instrumental in the development of the offshore wind industry since its inception and has developed a diverse cluster of innovative, technology-led suppliers that continue to be at the forefront of the industry.

The cluster is represented by Energi Coast, which champions the North East's innovative and collaborative supply chain companies operating in the offshore wind sector.

Since creating the first offshore windfarm off the coast of Blyth in 2000, the North East supply chain has evolved through the development of innovative and efficient products and services, which have been applied to multiple UK and international offshore windfarms.

EXPERTISE
 As a result, the cluster has matured to be able to deliver the majority of what is required for an offshore windfarm, both at design, construction and O&M phase. This expertise ranges from foundations, cables, installation, training and specialist subsea services. It also has extensive port facilities and enviable infrastructure attracting interest from key players around the world keen to set up business in the UK.

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North East England's Offshore Wind Cluster

Energi Coast, North East England's Offshore Wind Cluster; promotes the extensive supply chain expertise, from the leading region, capable of servicing the UK and global offshore wind industry.



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Find out more about the offshore wind supply chain in our region

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|----------------------------------|---|-----------|-----------------|-------------------------|-----------------|--------|-----------|---------|----------------------|--------------------|-------------------|----------------------------|-------------------------------|--------------|---|-----|------------------|-----------|---------------------|----------|---------------|--------------------|--------------|-------------------|-------------------|---------|----------------------|----------------|-----------------|---------------|------------|--------------------|--|
| Development & Consent | Surveys | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | | | | | |
| | Met Masts/ Wind Monitoring | | | | | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | |
| | Planning/Consenting | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Engineering & Design Studies | | | | | ✓ | ✓ | | | | | | ✓ | ✓ | | | | ✓ | ✓ | | | | | | ✓ | ✓ | | | ✓ | ✓ | | | |
| | Consultants | | | | | ✓ | | | | | | | ✓ | ✓ | | | | | ✓ | | | | | | ✓ | ✓ | | | ✓ | | | | |
| | Offshore Wind Developer | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | | | ✓ | | | | | |
| | Certifications | | | | | | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | |
| Infrastructure | Manufacture/Supply/ Installation of Cables | | | | | | ✓ | | | | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | | ✓ | | | | | | | | |
| | Cable Protection/Scour Protection | | | | | | ✓ | | | | ✓ | | ✓ | ✓ | | | | | | | | | | | ✓ | | | | | ✓ | | | |
| | Diving Services/ROVs | | | | | | ✓ | | | | | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | |
| | Structural Components | ✓ | | | | | | | | | | | | ✓ | | | | | | | | | | | | | ✓ | | | ✓ | ✓ | | |
| | Engineering Services/Components | ✓ | | | | | | | | | ✓ | | ✓ | ✓ | | | | ✓ | | | | | | | ✓ | ✓ | | | ✓ | ✓ | ✓ | | |
| | Electrical Services/Components | | | | | | | | | | ✓ | ✓ | | | | | | ✓ | | | | | | | | | | | | | | | |
| | Facilities & Structure | ✓ | | | | | | | | | | | ✓ | ✓ | | | | ✓ | | | | | ✓ | | | | ✓ | | | ✓ | | | |
| Installation & Commissioning | Foundation Installation | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | ✓ | | ✓ | | | | ✓ | | |
| | Logistics/Warehousing | | | | | | | | | | | | ✓ | ✓ | | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | | ✓ | | |
| | Lifting/Cranage | | | | | | | | | | | | | ✓ | | | | | ✓ | | ✓ | ✓ | ✓ | | | | | | | | ✓ | | |
| | Lighting/Navigation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sea Based Support | | | | | | | | | | | | ✓ | ✓ | | | | | ✓ | | | | | | | ✓ | | | | ✓ | | | |
| | Turbine/Substation Installation | | | | | | | | | | | | | ✓ | | | | | | | | | | | ✓ | | ✓ | | | | | | |
| | Port & Support Services | ✓ | ✓ | | | | | | | | | | | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | ✓ | | | | | | | ✓ | ✓ | | |
| O&M | After Warranty Period | | | | | | | | | | | | ✓ | ✓ | | | | | | ✓ | ✓ | ✓ | ✓ | | | | | | | | | | |
| | Personnel Services | | | ✓ | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | ✓ | | | | | ✓ | ✓ | |
| | Condition Monitoring | | | | | | | | | | | ✓ | ✓ | ✓ | | | | ✓ | | | | | | | | | | | | | ✓ | ✓ | |
| | Access Services/Slinging/Working at Height | | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | | ✓ | | |
| | Commercial Marine Services | | | | | | | | | | | | ✓ | ✓ | | | | | ✓ | | ✓ | | ✓ | | | | | | | | ✓ | | |
| | Emergency Response/Crisis Management | | | ✓ | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | | | | | | ✓ | |
| | Vessel Hire/Commissioning | | | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | ✓ | | | | | | ✓ | | |
| | Vessel Construction and Maintenance | ✓ | | | | | | | | | | | | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | | | | | | | |
| | Technician & Equipment Transfer | | | | | | | | | | ✓ | | | ✓ | ✓ | | | | | | | | | | ✓ | ✓ | | | | | ✓ | | |
| | Coatings/Protection/Cleaning | | | | ✓ | | | | | | | | ✓ | ✓ | | | | | ✓ | | | | | | | | ✓ | | | | ✓ | ✓ | |
| | Offshore Accommodation/Servicing & Supplies | | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | | ✓ | ✓ | |
| | Plant, Tools & Equipment Provision & Servicing | | | | | | | | | | | ✓ | ✓ | | | | | | | | | | | | ✓ | | | | ✓ | | ✓ | | |
| | Subsea cable inspection, maintenance and repair | | | | | | ✓ | | | | | | ✓ | | | | | | | | | | | | | ✓ | | | | ✓ | | ✓ | |
| Professional Services | Government Support/Stakeholder Engagement | | | | | | | | ✓ | | | | | | ✓ | | ✓ | | | | | | | | | | | | | | | | |
| | Professional Body/Membership Group | | | | | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | |
| | IT/Specialist Software | | | | | | | | | | | | | | | | | | | | | | | | | | | | | ✓ | ✓ | | |
| | Project Management | | | | | | | | | | | ✓ | ✓ | ✓ | | | | | | | | | | | | | | | | ✓ | ✓ | | |
| | PPE/Health & Safety/Equipment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Training/Education | | | ✓ | | | | | | | | ✓ | | | | | | | | | | ✓ | | | ✓ | | | | | | | ✓ | |
| | Hire Services | | | | | | | | | | ✓ | | ✓ | | | | | | | | | | | | | ✓ | | | | | | | |
| Onshore Accommodation & Services | | | | | | | | | | | | | ✓ | | | | | | | | | | | | | | | | | | ✓ | | |

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