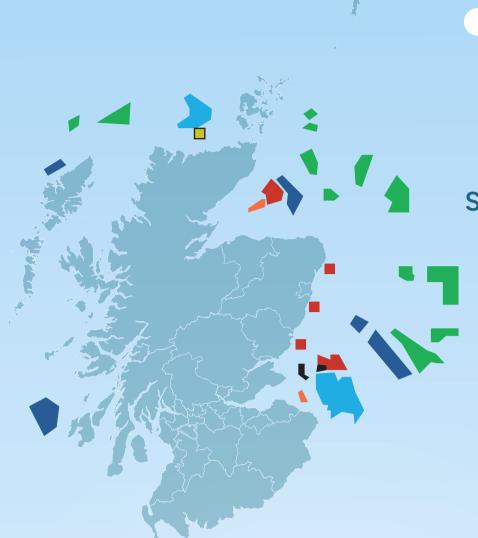
# ScotWind

Scotwind is a major offshore wind energy initiative taking place in Scottish waters. The first ScotWind round will deliver 19 projects and 30 Gigawatts (GW) of renewable energy by the mid 2030s. Offshore wind is critical to Scotland's Net Zero 2045 ambition.

# Location and Status of Offshore Wind Sites in Scotland\*



1000s of direct jobs in offshore wind expected in Scotland by 2029 and beyond



Key: Operational **Under Construction** Consented In Planning **ScotWind fixed ScotWind floating** 

\*Based on map produced by Highlands and Islands Enterprise – reference can be found under Sources List below.

## Offshore Wind projects have 5 stages:



#### Planning & **Development**

Involves site assessment (sea/seabed, wind, wildlife -over different times of the year), consulting public designing the wind farm, securing necessary permits(installation of farm and connection to onshore grid) and finance.



#### Manufacturing & Fabrication

Contractors appointed to make or supply all components: foundations, wind turbines, subsea cables and other on/offshore electrical systems. Most of this work takes place onshore.



#### **Installation &** Commissioning

Components are transported to offshore sites and once installed they need to be tested and approved before power can be supplied to the onshore electricity grid.



#### **Operations & Maintenance**

Wind turbines and the electrical infrastructure will be monitored remotely from onshore using sensors installed in equipment. Repairs and periodic maintenance (every 6/12 months) take place offshore.



## **Decommissioning**

At the end of the normal operational life, the wind farm can be fully decommissioned (returning everything to 'as before') or operations can be extended 'as is' for a number of years or the farm can be 'repowered' with larger turbines.

# 1000s of direct jobs

in offshore wind expected in Scotland by 2029 and beyond

# **Critical skills shortages**

in engineering, electrical trades, construction, O&M, project management, planning, data analysis, and maritime

### >90% of oil & gas workers

have medium to high skills transferability

60% of roles

will require STEM skills

By 2045 around 50% of Scotland's renewable energy

could come from offshore wind

## **Currently > 350** companies

in Scotland's offshore wind supply chain

# ScotWind will require skilled people, and many critical skills are in short supply





Skilled people are needed across all project stages, with the highest demand during installation and commissioning, then manufacturing and fabrication.

Most roles are needed across multiple project stages and therefore, potentially, a whole career.

Offshore wind is competing with many other sectors for these skills, meaning that many are already in short supply.



Significant demand for vocational skills such as:

- Electricians
- Maintenance technicians
- Welders
- Platers
- Scaffolders Crane operators
- Machine operators (manufacturing)
- Civils contractors
- Transport
- Maritime (vessel crew,
- port/harbour staff) Health and safety officers



Significant demand for skilled individuals with higher qualifications such as:

- Engineers (all disciplines)
- Planning
- Procurement
- Project managers Naval architects
- Surveyors Auditors
- Data scientists Environmental scientists
- Financial analysts
- Stakeholder engagement & public relations

# **Sources List:**

ClimateXChange (2023): Assessment of the structure, conduct, and performance of Scotland's onshore wind, offshore wind, and hydrogen sectors. ClimateXChange (2024): Mapping the current and future workforce and skills requirements in Scotland's onshore wind industry. Green Port Hull: Job Roles in Offshore Wind.

Highlands and Islands Enterprise (2024): ScotWind Leasing Round Map.

Offshore Wind Industry Council (2023): Offshore Wind Skills Intelligence Report. Offshore Wind Industry Council (2024): Offshore Wind Industrial Growth Plan.

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Offshore Renewable Energy Catapult (2022): Floating Offshore Wind, Risks to Project Development – People, Skills, and Vocations.

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Scottish Industry Directories: Offshore Wind.

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