

INVEST **ABERDEEN**

NORTH EAST
SCOTLAND:
OFFSHORE WIND



NORTH EAST SCOTLAND

Scotland's North East has a long and proud history in the global energy industry. It is one of the most exciting and attractive locations in Europe to develop and accelerate low-carbon projects and activities.

The region has an ambition to transform into a world leader of clean energy production, low-carbon investment and accelerated commercialisation of innovative low-carbon technologies, spearheading Scotland's drive to net zero.

Such resources include:

- Offshore renewable energy generation (offshore wind)
- Energy storage
- Electricity interconnection
- Hydrogen production and fuel cell deployment
- Gas and hydrogen distribution
- Carbon capture, utilisation, and storage

North East Scotland has an array of existing and planned transformational projects that make it a hugely attractive location for investment:

- 75% of ScotWind licences, equating to 17GW of power generation capacity, are within 100 nautical miles of Aberdeen.
- Home to the world's first floating offshore wind farm, Hywind, and currently the world's largest operational wind farm, Kincardine.

- The world's biggest floating offshore wind farm, Green Volt, will see up to 35 floating turbines built off the coast of Peterhead, generating 560MW of energy when operational.
- Pioneering Innovation and Targeted Oil and Gas (INTOG) leasing round provides an additional opportunity for floating wind to decarbonise North Sea energy production.
- The Acorn Carbon Capture & Storage (CCS) project on the Aberdeenshire coast, one of the most advanced of its kind in the UK, will take greenhouse gas emissions and store it in depleted gas reservoirs under the North Sea.
- A decade of experience in planning and implementing pioneering hydrogen projects and a wider region that has the potential to generate over 1GW of low carbon hydrogen by 2032.



OFFSHORE WIND EXPERTISE

European Offshore Wind Deployment Centre (EOWDC):

Scotland's largest offshore wind test and demonstration facility when launched in July 2018. Located around 3 kilometres off the east coast of Aberdeenshire, the EOWDC generates the equivalent of 70% of Aberdeen's domestic electricity demand.

Hywind Scotland:

The world's first floating wind farm situated 18 miles off Peterhead, Scotland. Since production began in 2017, Hywind Scotland has achieved the highest average capacity factor of all UK offshore windfarms proving the potential of floating offshore wind farms.

Moray East Offshore Windfarm:

Located 70km off the coast of Fraserburgh, Moray East is a highly competitive offshore wind project which was granted consent in 2014 by the Scottish Government. Moray East was the first part of the Moray Firth zone to be developed. Fraserburgh Harbour was selected as the operations and maintenance (O&M) port for the project in June 2018.

Green Volt:

Green Volt, Europe's first commercial-scale floating windfarm, located off the coast of Aberdeenshire and a 50-50 joint venture between Aberdeen-based Flotation Energy and Norwegian firm Vårgrønn. Green Volt is expected to support the renewables supply chain in scaling up, with the first commercial scale projects considered crucial in developing world-leading expertise and technology. The project, which will boost the North East economy, hopes to position the region, as well as the UK and Europe to become the home of future offshore wind jobs.

National Floating Wind Innovation Centre:

The £9 million National Floating Wind Innovation Centre (FLOWIC), situated in the heart of Aberdeen, is the UK's first innovation centre focused purely on the development of floating offshore wind technology.



KEY INDUSTRY OPPORTUNITIES:

ScotWind leasing:

ScotWind, one of the world's largest commercial offshore wind leasing rounds to date, in which a massive 28 gigawatts (GW) of seabed licences were awarded for both floating and fixed wind developments, was announced in 2022.

75% of all successful bids are within 100 nautical miles of Aberdeen, and, with an existing critical mass of diverse energy companies with the experience to support and deliver these complex projects, this region is ideally placed to support the high-value manufacturing, operations, maintenance and innovation required to deliver these developments at pace.

Collectively, the developers of these sites are committed to supply-chain investment of £21 billion into Scotland's supply chain. The scale of the opportunity is huge, and many of the successful bidders are global energy companies, many of whom already have significant operations in the North East of Scotland and are making investments to diversify their own capabilities to capitalise.

INTOG leasing:

The Innovation and Targeted Oil & Gas (INTOG) leasing round is the first in the world designed to enable offshore wind projects dedicated to supplying electricity to offshore oil and gas platforms. Eight targeted oil & gas (TOG) projects have been offered exclusive development rights, plus five small-scale innovation (IN) projects, designed to demonstrate next generation technologies and processes.

In total, 450MW of IN projects and 5GW of TOG projects have been offered development rights for new floating wind capacity, creating exciting new opportunities for innovative companies to help build these projects over the course of this decade.

North East Scotland Investment Zone:

The North East Scotland Investment Zone (NESIZ) will inject up to £160 million in targeted investment, tax reliefs and other incentives into the region over the next 10 years to stimulate innovation-led business growth, boost regional productivity and create high-value jobs for the future.



INVEST ABERDEEN



North East Scotland:

 Population: 490,120

 Geographic Size: 6,498.7 km²

Infrastructure:


 Rail lines


 Trunk Roads

 Aberdeen International Airport

 Commercial ports

 University and College campuses

 P&J Live – event complex

 Operational windfarms
(Moray East / West, Hywind,
EOWDC, Kincardine)

Projects and innovation support:

1 ScotWind / INTOG leasing areas

2 Seafood Transformation Project

3 St Fergus - Acorn Project

4 New Deer Substation

5 National Decommissioning
Centre

6 National Subsea Centre

7 ONE SeedPod

8 Thainstone Energy Park

9 Kintore Hydrogen

10 ONE BioHub

11 Net Zero Technology Centre

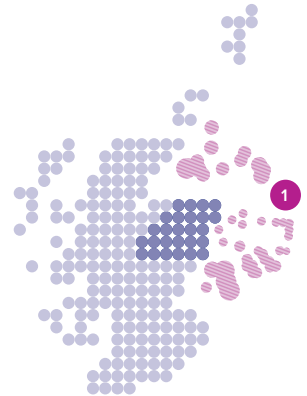
12 Global Underwater Hub

13 ONE Tech Hub

14 Aberdeen Hydrogen Hub

15 Energy Transition Zone

16 HydroGlen



INFRASTRUCTURE

From its position in the North East of Scotland, the Aberdeen City Region is a well-connected location with three major ports, one international airport, and extensive bus and rail networks. Our well-established infrastructure and transport links are a vital component to the region's success. With both domestic and international connections, our tradition of global trade has led to an incredibly diverse business environment.

Peterhead Port Authority:

Peterhead Port is one of the UK's most versatile ports, providing all weather deepwater berthing facilities. It serves as the country's biggest white fish and pelagic port and is known for its state-of-the-art fish market. The strategic location of the port makes it an ideal centre for servicing offshore energy industry and supporting the transition to net zero.

Port of Aberdeen:

Port of Aberdeen is Scotland's largest berthage port with more than 7,000 metres of quayside, offering world-class facilities. The port has positioned itself as an international hub for energy, trade, and tourism, and is always looking to diversify their offering. Following its transformational £420 million investment in South Harbour, Port of Aberdeen is ready to support projects of all sizes. Port of Aberdeen is also a lifeline port for the Northern Isles with passenger and freight ferries operated daily. In 2023 Port of Aberdeen welcomed its first cruise ship, marking a new dawn for tourism in the North East of Scotland.

Fraserburgh Harbour:

Fraserburgh Harbour is a Trust Port, ideally positioned for fishing grounds and North Sea energy opportunities such as INTOG and ScotWind projects. Fraserburgh Harbour is also renowned as a centre of excellence for vessel repair and maintenance. Fraserburgh Harbour is in the process of executing the biggest expansion project in its history, the Harbour Masterplan, which will provide deep water berthing and multipurpose quay, allowing the harbour to diversify into new maritime industries whilst continuing to serve the fishing industry.

Macduff Harbour:

Macduff is primarily a commercial fishing and maintenance port and is ideally placed for the operations and maintenance vessels which will service offshore wind developments.

Aberdeen International Airport:

Covering 30 routes, Aberdeen International Airport connects the region with the rest of the UK and further afield and services the world's oil & gas markets. The on-site North Sea heliport is one of the busiest civilian heliports in the world.



SUPPLY CHAIN & SKILLS:

The North East Scotland has a long and proud history in the global energy industry. While the North Sea remains a key player in the oil and gas sector, the region is also investing heavily in net zero technology, building low carbon infrastructure, and supporting a just transition to net zero by reskilling and upskilling the regional workforce.

The region's ambition and pioneering drive has opened many opportunities across the sector.

As the energy industry has evolved, the North East has developed a reliable supply chain and is now one of the most attractive locations in Europe to develop and accelerate low carbon projects and activities.

North East Scotland is a leading skills centre. Industry learnings and the new technologies developed here, are exported around the world. A significant proportion of the UK's green energy workforce is harboured here.

The Energy Transition Zone (ETZ) has been allocated £53 million to help the transition from oil and gas jobs to green energy jobs. Over 90% of the UK's oil and gas workforce have transferable skills and are well positioned to work in adjacent energy sectors, making the region a key energy transition hub.

The region has two world class universities and one college that produces Scotland's most employable graduates. These institutions support research and innovation, providing talent to support local businesses in the energy industry. This includes the National Energy Skills Accelerator (NESA).

NESA works with relevant businesses and training organisations to help create a more flexible, and resilient workforce for the UK's energy sector. NESA promotes and delivers the skills development programmes required to ensure business has ready access to a competent workforce to accelerate the long-term drive towards meeting net zero targets



WHY ABERDEEN



Connected business support from Aberdeen City and Aberdeenshire local authorities through Invest Aberdeen, in addition to Scotland's enterprise agencies, will be available before, during and after you locate in the North East of Scotland.

We will make the connections you need to ensure your investment goes smoothly, so that you can focus on growing your business.

To find out more about why Scotland's North East might be the right location for your company or project, get in touch with the Invest Aberdeen team.

INVEST **ABERDEEN**

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Aberdeenshire
COUNCIL

