Locating your Offshore Wind business in Fife

Fife means business.
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Why Fife works for Offshore Wind

With its long history of heavy engineering and supply chain service to the North Sea Oil and Gas industry, Fife is becoming the main focal point for Scotland’s expanding Offshore Renewables sector.

Deepwater ports just 25-35 nautical miles from three large-scale proposed wind arrays, development land with quayside access and excellent transport, digital and logistics connectivity combine to make Fife an ideal location for Offshore Wind businesses.

Other benefits of locating in Fife include:
- Regional Selective Assistance grants for job creation
- £5 million apprenticeship fund
- Further and higher education programmes for energy skills training
- An experienced and competitively priced workforce.

Add to this the mutual support to be gained from existing clusters of related, world-leading design, manufacturing, servicing and supply businesses and Fife becomes the natural choice for any operation aiming to excel in Offshore Wind Energy.

The following pages give an overview of the scale of the opportunity in UK and Scottish waters, ports and other facilities and the supports available to organisations wishing to set up or expand in Fife.

For more information or to start your process of locating in Fife, please contact:

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Background image: Courtesy of Alpha Ventus.
Fife and the Offshore Wind opportunity

Three large-scale arrays are proposed off the Fife coast, accounting for over 50% of capacity planned for Scottish waters.

Within UK waters, the Offshore Wind industry is preparing to install up to 1500 turbines, reaching an installed capacity of 10 gigawatts by 2020.

The scale of the market in Scotland

These wind farms are now being progressed through the government consenting process by their developers.

**Neart na Gaoithe** is being developed by Mainstream Renewable Power;

**Inch Cape** is being developed by Inchcape Offshore Limited, a joint venture of Repsol Nuevas Energias and EDP Renewables, and

**Firth of Forth** by Seagreen Wind Energy, a joint venture between SSE and Fluor.

Once consent has been granted, the site developers will establish contracts for services to build the arrays.
The range and scale of opportunities

As well as those available during the manufacture and installation phases, opportunities exist for businesses to operate, maintain and replace the turbines and their associated infrastructure over the 50 year lifespan of the wind farms.

Key areas include:

• early stage surveying and evaluation
• component transport and logistics
• quayside manufacture and assembly of foundations, substructures and housings
• electronic and precision engineering component manufacture and supply
• tower and turbine assembly and installation
• technician and equipment transfer
• monitoring and control
• servicing and operational support.

Facilities located near to Offshore Wind farms benefit from reduced time and cost of travelling to and from sites and will be best placed to carry out the range of manufacturing and support activities required.

The Crown Estate

As well as licensing offshore sites for development, the Crown Estate also work with developers and key stakeholders to overcome challenges in five key strategic areas: Health and safety; Planning and consenting; Supply chain and skills; Technology and transmission; Project finance and economics. For more information, visit www.thecrownestate.co.uk
Transport & Connectivity

Situated on Scotland’s East Coast, Fife offers established deepwater port infrastructure and industrial development land only 25 nautical miles from the closest of the three large-scale proposed Wind Arrays in the Firth of Forth.

Ports
Fife offers a choice of deepwater ports, Rosyth and Burntisland. Rosyth has scheduled freight ferry sailings to Zeebrugge, while both are experienced in handling heavy and bulky structures and components. Burntisland’s location east of the Forth Bridges means it is free from the 44m air draft restriction at Rosyth.

Across the Firth of Forth, Leith is the largest enclosed deep-water port in Scotland.

Motorways
- South via M90 to Edinburgh and A1 to Newcastle.
- North via M90 to Dundee and Aberdeen.
- West via M8 to Glasgow and onwards, via M77 to Irish ferry port at Stranraer and south to England, the M6, M5 and M1.

Airports
- Edinburgh International
- Dundee Regional
- Glasgow International

Bus
Extensive Public Transport Network serving all population centres.
**Rail**

East and West Coast Mainline connections to freight and passenger services

- Edinburgh to London 4h 22m
- Freight railhead at Thornton

**Digital**

Superfast, high resilience fibre optic connectivity available on all business sites with a Green Data Centre planned.
Key locations of interest are listed below.

For a more comprehensive view of available business property in Fife, please contact Invest in Fife (details on the back page).

Our current property prospectus can also be found in our ‘Land and Property’ section at www.investinfife.co.uk

Energy Park Fife, Methil

Energy Park Fife offers 55 ha of coastal development opportunities, an additional 16 ha inland and office accommodation specifically designed to incubate innovative start-ups.

The Park is identified within the recently published National Renewable Infrastructure Plan (N-RIP) as being ideally located to take advantage of the Scottish Government’s commitment to the sector.

Mid Fife

Mid Fife is the heartland of Fife subcontract manufacturing business, with notable strengths in precision engineering, fabrication and electronics.

Inland, Kirkcaldy has 51 ha available land and Glenrothes Gateway 33 ha of employment land. Between them, they are home to over 100 tier 2 and 3 engineering and service providers to the offshore energy industry.

Burntisland, already home to Burntisland Fabrications Ltd (BiFab) and Briggs Marine, has over 7 ha available with access to the East dock. This presents a significant opportunity for companies seeking to develop a facility to service offshore energy sites.

Rosyth Waterfront and the Bridgehead area

10 miles from Edinburgh Airport, this 253 ha site includes a deep-water port, a non-tidal basin, and benefits from excellent access to the road network via the M90 and a rail link to the East Coast Main Line. Along the M90 to the North of Rosyth, a further 54 ha site offers an excellent logistics location adjacent to Amazon’s main Scottish centre.

Rosyth Waterfront

30 ha of development land with nearby or direct deepwater quayside access.
Glenrothes Gateway
Fife’s main concentration of specialist engineers and manufacturers. 33.2 ha of employment land available.

Energy Park Fife
66 ha of coastal land with deepwater access and 16.5 ha inland - ideal for the renewable energy sector and supply chain companies.

Kirkcaldy
Ready to lease or buy high-quality office space, industrial units and development land available across three business parks.
Supply Chain

With a history of service to the North Sea Oil & Gas industry spanning four decades and a rapidly expanding Marine Renewable Energy sector, Fife holds a wealth of expertise appropriate to the Offshore Wind supply chain. Fife based companies have an exceptionally strong track record in the sector, having been called upon to supply industry-leading European offshore wind projects.

Local content to assist contract scoring

Fife’s world-leading firms range from heavy engineering companies to offshore installation experts and specialist marine environmental consultants. All are able to provide high-quality local content to projects and help developers meet the UK Government’s ‘impact in industry development’ criterion, which can account for 25% of the scoring for Transitional Contract for Difference Agreements.

Samsung Heavy Industries (SHI) unveiled the World’s largest and most powerful Offshore Wind turbine in Energy Park Fife in October 2013. SHI has invested £100 million in the 196 m, 7 MW Fife wind turbine demonstrator scheme, its first Offshore Wind project.

BiFab are world leaders in the fabrication of sub-structures for Offshore Wind turbines. Recent projects include manufacture of subsea jackets for the Alpha Ventus wind farm off the German coast, the Ormonde field in the Irish Sea, and for the Beatrice Talisman project.

Isleburn (Global Energy Group) has been involved in assembling and erecting the world’s largest tidal device and some of the world’s largest Offshore Wind turbines at Beatrice.

Briggs Marine offers Oil & Gas experience to the renewable energy sector, with services including the repair of submarine cables and the supply of vessels.
Parsons Peebles has the largest installed base of electric motors and generators in the North Sea and are expert in providing new machines and offshore services for the harshest of operating environments.

Babcock Marine is the leading UK engineering support services company, trusted to deliver critical assets and complex infrastructure across the globe. Significantly experienced within the marine environment, our unique mix of skills, experience, capacity and location provide full project lifecycle services to the Offshore Renewables sector.

Rolls Royce has a facility in Dalgety Bay and is experienced in marine engineering O&M services in the form of maintenance technicians and integrated contracts for refurbishment and repair.

Gray Fabrication, a steel fabrication and heavy rolling company, supplied transition piece components for Greater Gabbard and pile stopper pins for Ormonde.

SMRU Ltd, associated with the University of St Andrews, provides services to meet regulatory requirements to assess the impact of devices on sea mammals.

BAE Systems Manufacturing provide Electronic Manufacturing Services to the Aerospace and Energy markets. Accredited to the highest quality standards, the company manufactures PCB assemblies, modules and complete products with the highest reliability in the harshest of environments.

Scott and Fyfe is a global supplier and innovator in the field of reinforcements to the composite industry. They are expert in the development and use of composite materials suitable for both nacelle housings and turbine blades.

Production Glassfibre is the United Kingdom's largest general moulder of GRP parts and products. Able to undertake the largest one-off projects, Production Glassfibre has more extensive experience than any other company in its industry.

Narvida, based in Dunfermline, supplies a broad range of industries with stainless steel and metal fabrication welding, pipework and tradesman hire.

Hydrosphere UK Ltd is the leading supplier of aids to navigation. This includes data buoy platforms, and site marking for offshore wind and other renewable energy developments in wave and tidal. Wind farm locations served include Greater Gabbard, Sherringham Shoals and Humber Gateway offshore wind farms.
Recruitment

Studies forecast that up to 28,000 people could be employed in the Scottish Offshore Wind sector by 2020.*

Fife benefits from a strong existing skills base in many technical areas and proximity to Scotland’s major population centres.

* Scottish Enterprise / Scottish Renewables

Workforce

The region has a strong indigenous base of appropriate skills present in its mature cluster of engineering and technology companies. In addition, businesses in Fife enjoy a stable workforce with low employee turnover rates. Having a potential labour pool of 750,000 people within an hour’s drive is an additional benefit enjoyed by companies in Fife.

Graduates and school leavers

Engineering is the No.1 choice for male school leavers in Fife. Of those going on to a degree qualification, 9% of school leavers choose Engineering while 15% choose Science or Mathematics.

All of Scotland’s top engineering universities - Aberdeen, Dundee, Edinburgh, Glasgow, Heriot-Watt, Napier, West of Scotland and Strathclyde – are within easy reach by road and public transport.

Support for job creation

Companies creating jobs in some parts of Fife may be eligible for Tier 2a Regional Selective Assistance grants of up to 30%. Fife holds the only areas within the Edinburgh City Region to benefit from this level of support.

Support for recruitment

In collaboration with Opportunities Fife Partnership, Invest in Fife can assist with your local recruitment needs.
Meeting the growing demand for energy skills

Fife leads the way in skills development for the Renewable Energy sector.

It is home to the UK’s first college-based, industry-backed wind turbine technician apprenticeship programme, as well as dedicated training facilities and a series of partnerships between industry, education providers and the public sector.

Locally available staff training services

Mines Rescue Service uses knowledge gained over 100 years of working in difficult and potentially dangerous environments to deliver training in Health and Safety, Confined Space Working, Fire Fighting, First Aid, and Working at Height for Wind Turbines.

Energy Skills Partnership

Scotland’s Energy Skills Partnership (ESP) in which Fife is a leading player, acts as a link between the relevant industry associations, government agencies, universities, colleges and awarding bodies and helps coordinate efforts to supply the growing needs of the Energy industry.

Wind turbine technician training

In 2009-10 Fife College launched a new programme to train apprentices to become wind turbine technicians in partnership with Siemens, REpower and the Weir Group. Employers such as AREVA Wind and Kennedy Renewables now also support the development of the full-time Wind Turbine Technician course.

“37% of Scotland’s working population has a degree, HND, or equivalent qualification, while Scotland’s graduates have higher starting salaries and lower unemployment rates than the UK average.”

Source: Scottish Government

Fife College

Fife College is the largest provider of skills to the Fife economy with around 5,000 full-time and over 15,000 part-time students. It incorporates specialist facilities across several sites and provides education and training in energy sector specific skills to 3,000 each year.

The College’s Whitlock Energy Collaboration Centre at Rosyth is a dedicated research and training resource. It builds knowledge exchange, partnering and networks, and supports delivery of CPD for engineering lecturers across Scotland in specialist skills for Wind Turbine Maintenance.
Renewables innovation in Fife

Organisations within Fife promote the development of the renewables industry at all levels, from low-carbon incubator-style accommodation for startups to research into technologies that can help to resolve the sector’s most pressing issues.

Energy Park Fife, Methil

Energy Park Fife is a leading manufacturing and research zone occupying 54 ha of quayside development land ideal for servicing the offshore wind farms off the coast. Fife Renewables Innovation Centre and the Hydrogen Office are located in Methil Docks Business Park within the Energy Park.

www.energyparkfife.co.uk

Fife Renewables Innovation Centre (FRIC), Methil

FRIC, in Energy Park Fife, is one of Europe’s leading locations for innovation and development of renewable energy and energy storage technologies that are emerging to support Offshore Wind development.

It was launched officially on the 18th April 2013 and the building won the British Council of Offices 2013 Scottish Award for Innovation. It has a combination of individual incubation units and shared facilities designed to enable forward-looking technology developments.

FRIC houses a supply chain cluster related to Offshore Wind developments.

• Samsung Heavy Industries (SHI) project team for the 7MW Offshore Wind turbine
• Influx Innovative Services - technical services company
• Reach Engineering and Diving Services (REDS)
• Hydrosphere UK Ltd, - Aids to Navigation
• Energy Project Management Ltd (EPM), - concept to commercial realisation
• Flumill - energy from tidal flows
• Narvida - steel fabrication.

www.fiferenewablesinnovationcentre.co.uk

The Hydrogen Office

The Hydrogen Office, situated next to FRIC, was set up to support the accelerated development of the renewable, hydrogen, fuel cell and energy storage industries in Scotland. Solving the energy storage challenges will greatly improve the practical benefits of intermittent renewable energies such as Offshore Wind.

www.hydrogenoffice.com

University of St Andrews


In 2012 Professor Peter Bruce was awarded the UK Science Award by the Royal Society of Chemistry for his work on lithium batteries, which has the potential to considerably enhance the efficacy of renewable energies in Scotland and around the world.

www.st-andrews.ac.uk
Supply Chain Directory

To assist contractors, buyers, investors and ongoing research and development efforts, Invest in Fife now hosts a searchable online database of local suppliers.

The web-based directory gives the Offshore Wind industry access to detailed information on local companies with skills and experience relevant to the renewable energy sector, including those now seeking contracts within to the Offshore Wind industry.

It has been specifically designed to help technology developers, contractors, and buyers easily identify and assess the capabilities of potential suppliers within the Fife region.

The businesses represented have years of offshore marine and subsea experience that has been developed in several related market areas, including Oil & Gas and Defence.

To search the database, follow link to the 'Company Directory' at: www.investinfife.co.uk/content/company-directory
The Invest in Fife team offer a free and confidential bespoke service.

Whatever your requirement, we have the skills and experience to make your move to Fife as easy as possible.

We can help you with:

- Property Selection
- Land for Business Development
- Detailed local information such as demographics, local workforce, public transportation
- Familiarisation Trips
- Advice on Financial Assistance
- Arranging discussions with other Fife Council departments e.g. Planning, Transportation
- Named contacts within external organisations
- Local engagement

Invest in Fife has a proven track record of helping potential investors make their projects happen and assisting Fife-based companies with their local expansion plans.

WINNER – Best Public Sector Initiative – Scottish Renewables Green Awards 2013

www.investinfife.co.uk

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