



## UK

### UK renewable energy

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## Overview

The UK is making major strides in decreasing its global carbon footprint being the world's second biggest investment location for renewable energy firms.

The UK has one of the most vibrant and internationally valued renewable energy and environmental technology sectors in the world.

This has been achieved through progressive government policies, innovative and experienced companies, and vast natural renewable energy resources.

The Government's aim to reduce CO<sub>2</sub> emissions by at least 80% in greenhouse gas emissions by 2050 offers a robust framework for continued investment in the UK.

Onshore and offshore wind, biomass, wave and tidal energy are just some of the renewable energy sectors presenting opportunities for investment.

## Renewable Energy

### North East

- North East England is home to leading edge research in wind and solar power, co-ordinated by the New and Renewable Energy Centre (NaREC) in Blyth, a major player helping the UK to achieve its ambitious renewable energy targets. The region is one of the most famous locations in the world for energy and is a major player in the drive towards a low carbon economy
- The energy market in North East England is currently estimated to be worth around £900m and employs around 8,000 people

### NaREC

- The New and Renewable Energy Centre (NaREC) has helped facilitate the expansion of some of the world's leading low emission technology suppliers
- Narec is a national centre for the UK dedicated to accelerating the deployment and grid integration of renewable energy and low carbon generation technologies, utilising wind, wave, tidal, solar PV and thermal power
- Narec work with global blue chip companies, SMEs, start-ups and university spin-outs to commercialise technologies which generate electricity and heat; can be deployed into the electrical network; or form part or all of a distributed energy system
- US energy giant Clipper Windpower located its European R&D facility in North East England to develop the world's largest offshore wind turbine in collaboration with NaREC
- Japanese market leaders Yanmar chose the region to develop its 100% biodiesel heat and power system at the NaREC testing facilities

### The Renewable Energy Park

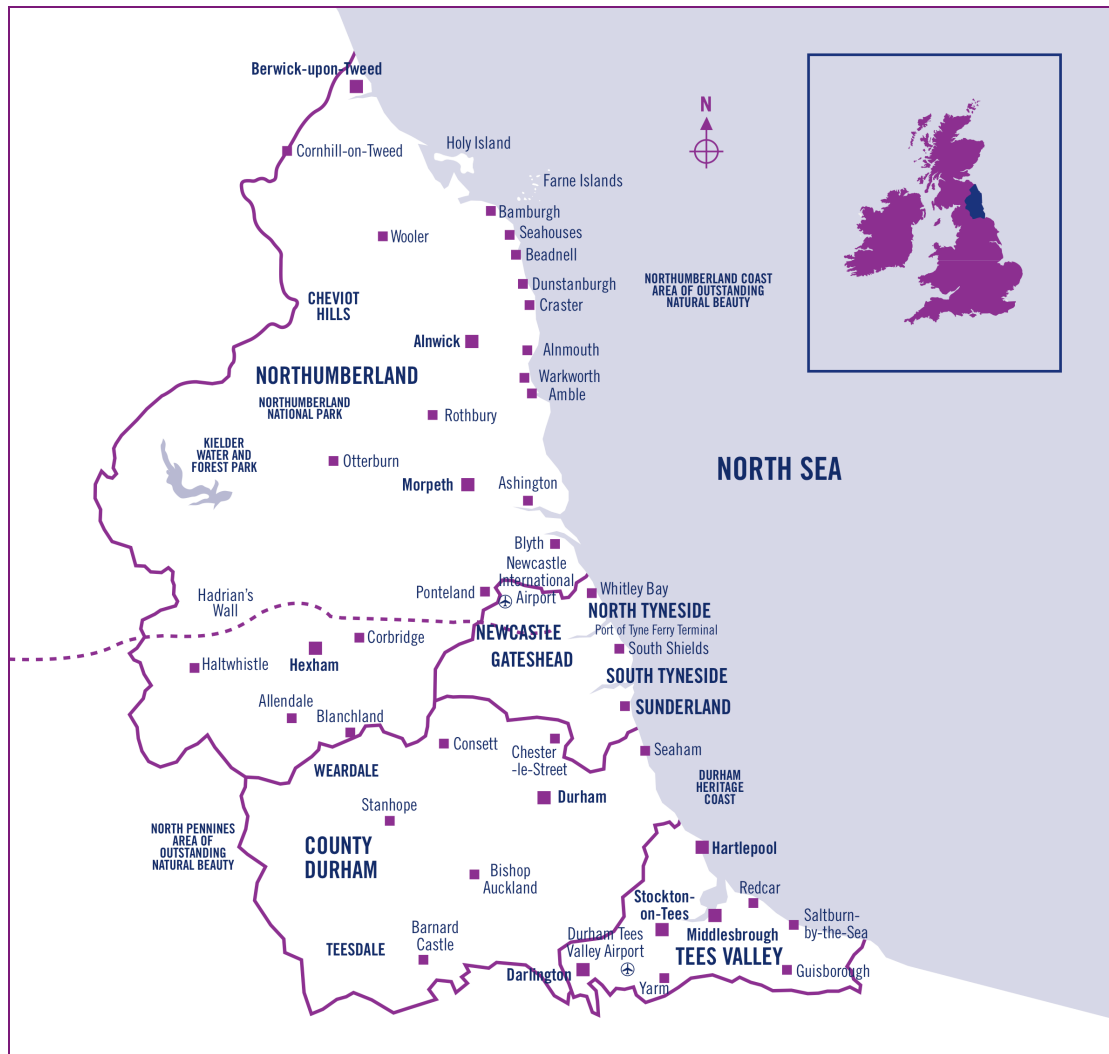
- The Renewable Energy Park in Newcastle, is a unique, integrated facility delivering excellence for the energy sector, in engineering, assembly and innovation.
- Situated on the riverside, next to Offshore Technology Park this superb bespoke development is ideally positioned to offer direct supply lines to proposed and approved offshore wind farms and a seamless local supply chain of supporting technologies for a total supply base solution.
- An existing regional renewables supply chain is well co-ordinated and supported. Supporting technologies offer a total supply base solution and a seamless local supply chain, with well-developed manufacturing facilities, established industrial infrastructure and good communication networks.
- The Renewable Energy Park is based on a vast area of the riverside, spanning over 150 acres of this north easterly port, with ready access to windfarm sites along the east coast of England and the North Sea. The coasts of other European countries with offshore wind development plans are also within easy reach.
- The Tyne Port is a deep river port, with round-the-clock access, 2.5 miles from the mouth of the river Tyne. Based in Tyne Dock near Newcastle upon Tyne, with an International Passenger Terminal within easy reach of Newcastle International Airport, the port offers easy access to the UK national motorway network while within Tyne Dock, the port operates a rail terminal linking directly to the UK's high speed east coast main line.

### Other

- The North East subsea industry is a UK centre of excellence employing over 5,000 people and has a combined turnover of more than £500m a year
- The region contains the UK's biggest biomass power station, at Wilton International on Teesside, which generates 30MW of power
- Durham University is currently leading a £6.3 million programme to develop affordable solar panels from sustainable materials
- In 2007, South Gare lighthouse in Redcar, originally built in 1884, became the first hydrogen fuel cell-powered lighthouse in the UK and lights a major shipping lane into Teesport.

For a One North East – Renewable Energy brochure please visit the link below and download the pdf.  
<http://www.naeringsparken.com/index.cfm?tmpl=medlem&mld=424>

## Map



## Sources

One North East  
UKTI  
Narec  
The Renewable Energy Park