RENEWABLE ENERGY: DELIVERING FOR NORTH EAST SCOTLAND

scottish renewables

Across North East Scotland, Scotland's renewable energy industry is working to harness our world-leading natural resources to generate the clean energy we need to run our lives while tackling climate change.

This factsheet shines a spotlight on just some of the renewable energy projects in North East Scotland which are building healthier communities, creating green jobs and investment and making vital progress in tackling the climate emergency.

Renewable energy facts: North East Scotland

1. Just over a half of the region's renewable energy capacity is onshore wind at 53%, followed by offshore wind at 39%.[1]

2. Scotland has 11.9GW of renewable electricity generation capacity – 2GW are in North East Scotland.[2]

3. Every year onshore wind farms in the region contribute £1,984,381 of community benefit funding money which would not otherwise be available for good causes.[3]

The European Offshore Wind Deployment Centre

Just off the coast of Aberdeen, Vattenfall's European Offshore Wind Deployment (also known as Aberdeen Offshore Wind Farm) hosts some of the most powerful wind turbines in the world. Generating power since July 2018 this wind farm can power up to 80,000 homes and displaces over 134,000 tones of carbon dioxide annually, the equivalent of removing 35,000 cars from UK roads.[4]

Over its 20 year life-span this wind farm will create up to 1,000 new supply chain and local jobs, including at the operations and maintenance base at Aberdeen Harbour.[5] A total of £100 million is expected to be generated for the Aberdeen and Aberdeenshire economy. The wind farm is also investing £150,000 annually in climate-friendly community benefit schemes across the region.

To create more green jobs for communities across Scotland, Scottish Renewables is calling for the delivery of a Renewable Energy Economic Plan to underpin Scotland's green recovery.


Vattenfall

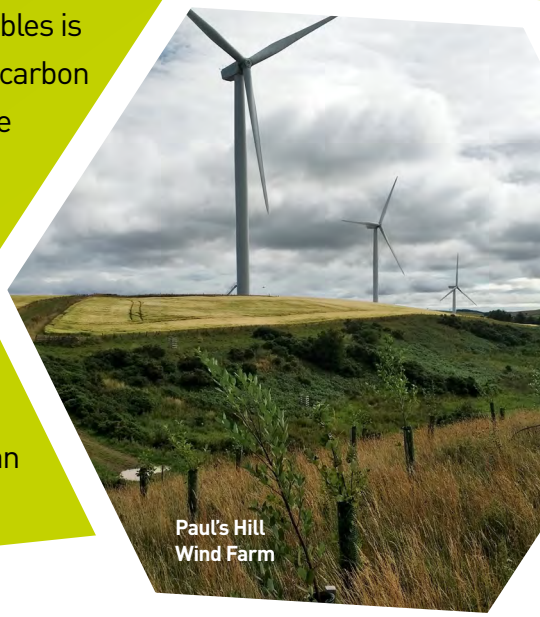
1. Scottish Energy Statistic Hub. Renewable electricity capacity by local authority (2019)
2. Scottish Energy Statistic Hub. Displaced emissions (2019) and renewable energy electricity generation by local authority (2019).
3. Local Energy Scotland
4. https://group.vattenfall.com/uk/what-we-do/our-projects/european-offshore-wind-deployment-centre
5. https://group.vattenfall.com/uk/contentassets/c66251dd969a437c878b5fec736c32aa/aberdeen-socio-economic-fact-sheet.pdf

Onshore wind in the North East

Across the North East onshore wind farms from developer Fred. Olsen Renewables are capturing our abundant wind resources to generate electricity for local communities. This includes the Rothes I & II Wind Farms and Paul's Hill Wind Farm, both near Elgin, and the Mid Hill Wind Farm at Fetteresso Forest near Aberdeen. Collectively these wind farms can power up 115,000 homes.[6] Fred. Olsen Renewables has made £2 million of funds available to eligible communities surrounding their wind farms across Moray and Aberdeenshire to support local priorities.

Research for Scottish Renewables by Fraser of Allander Institute has shown that across Scotland onshore wind supports a total of 8,780 jobs, helping to create the green skills we need for our net-zero future. The onshore wind industry also provides Scotland with an economic output of £2.4 billion.

Scottish Renewables is calling for a low-carbon assessment to be introduced into Scotland's planning system to ensure that more renewable developments can go ahead.



Paul's Hill Wind Farm

Renewable heat at the V&A

Dundee's landmark V&A museum is one of Scotland's first large-scale buildings to be fully heated and cooled by low-carbon technologies. Thirty 200 metre deep bore holes form part of this system, supplemented by air source heat pumps on the roof. These provide direct renewable energy for the museum, with 800,000 kWh/annum of heating in winter and 500,000 kWh/annum of cooling in summer.[7]

This system is remotely monitored to maximise energy use, and is cutting carbon emissions by 43% compared to traditional boilers and air conditioning, achieving a 105% reduction in maintenance costs.[8] A finalist in the 2018 Scottish Green Energy Awards, this renewable heat system demonstrates how readily-available clean heat technologies can replace harmful and polluting fossil fuel heating, offering solutions to accelerate our net-zero journey.

Scottish Renewables is calling for Scottish Planning Policy and building regulations to be revised by The Scottish Government to ensure all new buildings are heated by renewable sources.

Atmosphere1 / Shutterstock.com

6. http://fredolsenrenewables.com/wind-farms/united-kingdom/
7. https://www.vam.ac.uk/dundee/info/our-building
8. GI Energy submission to Green Energy Awards 2018

To read more about how renewable energy can support your constituents please visit our hub for MSPs at