

Hollandmey Renewable Energy Development

A proposal to develop a new renewable energy development comprising a windfarm, battery energy storage facility and solar array, with generating potential of around 65 MW.



About ScottishPower Renewables

ScottishPower Renewables (SPR) is part of the ScottishPower group of companies operating in the UK under the Iberdrola Group, one of the world's largest integrated utility companies and a world leader in wind energy.

SPR now only produces 100% green electricity – focusing on wind energy, smart grids and driving the change to a cleaner, electric future.

As a Principal Partner for the United Nations Climate Change Conference (COP26), ScottishPower is developing an energy model that will play a significant role towards reaching the UK's world-leading climate change targets and is investing a total of £10 billion in the clean energy generation and networks infrastructure needed to help the UK decarbonise and reach Net-Zero emissions.



Whitelee Windfarm

Site Summary - key facts



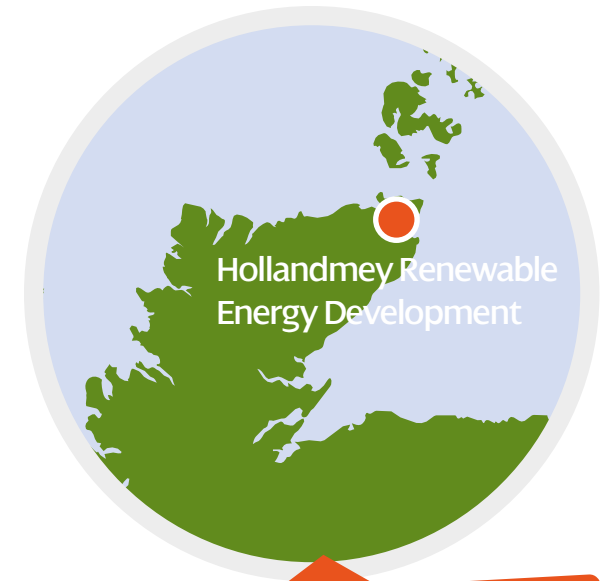
10 turbines with a height to blade tip of 149.9m

50MW
wind energy



15 MW
ground mounted solar arrays

Installed capacity of **65 MW**



15 MW battery storage to provide ancillary services to National Grid



Generating around **114 GWh** energy (excluding solar) annually, enough to power **31,828 homes** ⁽²⁾

Economic Benefits

Community Benefit Fund

Job supported – ‘Meet the Developer Days’ for local business opportunities



Financial contribution to the local electric vehicle charging network

Once operational Hollandmey RED would contribute a significant sum in business rates to the economy, expected to be up to £0.7 million per annum

SPR's Halsary Windfarm is projected to have a total investment of **£39 million**

and a total local spend of **£8.43 million** during construction.

“As part of the construction team working on SPR’s Halsary Windfarm we were responsible for assisting in delivery of the control building, concreting works and steel fixing works. This project not only benefitted us, but many other local businesses and suppliers in the Highland region. We were pleased to work with SPR to do our part in supporting Scotland’s Net-Zero goals.” **Gow Groundworks, Thurso**

Benefits to the Community

SPR has been working alongside communities across the UK for nearly two decades and has, to date, contributed more than £43 million in benefit funds to support initiatives and projects for those communities local to its windfarm sites.

SPR operates two existing windfarms in the Highland region: Beinn Tharsuinn Windfarm in East Sutherland, and Halsary Windfarm south of Spittal in Caithness. The combined community benefit funds from these two developments are projected to be £3.4 million over their lifetimes. Twenty-two community council areas in the Highlands have the opportunity to benefit from this funding.

Some examples of what has been delivered with the community benefit fund made available from SPR’s Beinn Tharsuinn Windfarm include:

- over £14,500 towards Broadband provision
- almost £45,000 towards environmental improvements
- £4,500 towards purchase of community minibus and £460 towards driver training
- over £38,000 to kids clubs & youth activities
- almost £10,000 towards local heritage projects
- over £5,000 to fund school pupils participation in nationwide performing arts contest.
- over £6,000 to purchase defibrillators and first responder kits.

Hollandmey RED Economic Impact

SPR is keen to create employment opportunities during the construction and operation of its windfarms that can benefit those who live near its sites. During its lifetime, Hollandmey Renewable Energy Development (RED) is expected to create opportunities for employment related to:

- felling;
- haulage and transport services;
- site clearance;
- access road, turbine platform construction and other civil engineering services;
- site and ground investigation services;
- building construction, electrical, plumbing, roofing, flooring, plastering, decorating and joinery services;
- crane companies to provide lifting services;
- plant and equipment hire;
- fencing, road furniture and signage installation;
- supply of building and electrical materials (e.g. aggregates, concrete, cabling, equipment, culvert tubes etc.);
- mechanical, electrical, project management and supervisory services;
- provision and servicing of temporary welfare facilities; and
- supply of fuel and other consumables.

Halsary Windfarm

Construction & Operation

During construction, Hollandmey RED could provide approximately:

- 14.6 job years (FTE) and £0.9 million Gross Value Added (GVA) in Caithness and Sutherland;
- 119.4 job years and £7.2 million GVA in the Highlands;
- 299.8 job years and £18.2 million GVA in Scotland; and
- £82.9 million in total, with a peak workforce of 75 people.

During operation, Hollandmey RED could provide approximately:

- 4.3 job years and £0.3 million GVA in Caithness and Sutherland;
- 14.4 job years and £0.9 million GVA in the Highlands;
- 27.3 job years and £1.6 million GVA in Scotland;
- a lifetime GVA of £24.8 million to the local economy through both direct and indirect effects; and
- over £40 million to the economy of Scotland as a whole.

Climate Change & Carbon Reduction

Scotland has committed to reduce emissions of all greenhouse gases to Net-Zero, by 2045 at the latest, with interim targets for reductions of at least 56% by 2020, 75% by 2030 and 90% by 2040. These are currently the most ambitious statutory targets in the world.

Key climate change and carbon reduction benefits of Hollandmey RED include:

- displacement of around 71,567 tonnes of CO₂ per year over a fossil fuel mix of electricity, and 2.8 million tonnes of CO₂ over the lifetime of the project (assuming a 40-year lifetime for the purposes of the Scottish Government's Carbon Calculator⁽⁴⁾);
- repayment of the carbon emissions related to its construction in 3.1 years. This will be further reduced by the proposed solar array (not currently included in the Scottish Government's Carbon Calculator tool⁽⁴⁾);
- Battery Energy Storage System (BESS) to store energy, providing stability to the electricity supply network, meeting energy demands and providing improved energy security; and
- financial support for the local electric vehicle charging network.



Environment

The Hollandmey RED would incorporate environmental enhancements including a Habitat Management Area to provide wider benefits for nature and biodiversity. Proposed enhancement measures comprise felling of commercial forestry and restoration of 168 ha of peatland habitat, providing habitat for many wader species surrounding the Phillips Mains Mire SSSI, and helping to preserve its favourable conservation status.

Powering the Future

Onshore wind is one of the lowest cost forms of new power generation available⁽¹⁾.

UK Public Support for Onshore Wind has reached 76% according to the BEIS⁽³⁾. Public Attitudes Tracker report published May 2021. This demonstrates an increase from 65% in April 2015.



Beinn Tharsuinn Windfarm



References

- (1) BEIS; Electricity Generation Costs, 2020
- (2) BEIS; Sub-National Electricity and Gas Consumption Summary Report, 2019 (based on average household consumption of 3,578 kWh)
- (3) BEIS; Department for Business, Energy & Industrial Strategy
- (4) Scottish Government carbon calculator for windfarms V1.6.1

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Better future, quicker



Cover image: Visualisation of the proposed Hollandmey RED, turbine tip heights 149.9m.
Other images: Halsary Windfarm, turbine tip heights 120m; Beinn Tharsuinn Windfarm, turbine tip heights 80m; and Whitelee Windfarm, turbine tip heights 110m.