

# Carrick Windfarm Development

A proposal to develop a new windfarm in the  
National Forest Estate of Carrick, South West Scotland





## 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.

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

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 over 5 years in the clean energy generation and networks infrastructure needed to help the UK decarbonise and reach Net-Zero emissions.

## Carrick Windfarm Development Site Summary - key facts



13 turbines with a height to blade tip of 200m

Installed capacity of around **86MW**



Generating around **255 Gigawatt hours** of energy annually, enough to power over **71,000 homes** <sup>(1)</sup>

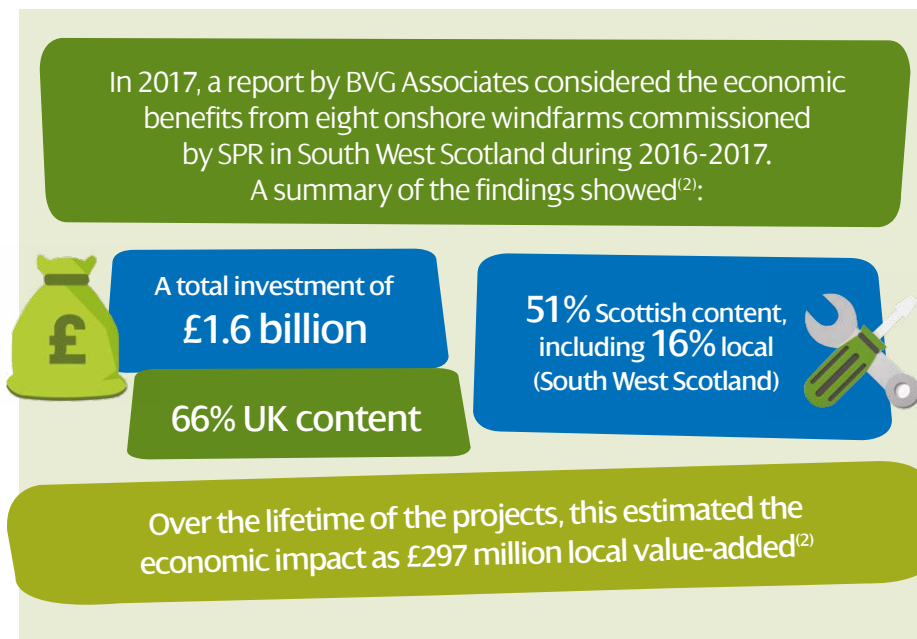


 20 megawatts battery storage to provide ancillary services to National Grid

## Economic Benefits

Carrick windfarm could provide several economic benefits to the South Ayrshire region and Scotland as a whole and these include:

- Community Benefit Fund and opportunity for shared ownership;
- Meet the Contractor events to allow local suppliers to learn about and discuss potential contract opportunities;
- Training and education; and
- Once operational Carrick Windfarm would contribute a significant sum in business rates to the economy, expected to be in the region of £600,000 - £900,000 per annum.



## Benefits to the Community

SPR has been working alongside communities across the UK for over two decades and has, to date, contributed more than £45 million in benefit funds to support initiatives and projects for those communities local to its operational windfarms.

SPR operates a number of windfarms in the South Ayrshire region; Dersalloch, Arecleoch, Mark Hill, Kilgallioch and Glen App Windfarms. The combined total community benefit funds from these windfarms is projected to be around £30 million over their lifetimes.

Some examples of local projects and community initiatives that have been supported in South Ayrshire include:



**SPR is proposing that Carrick Windfarm would offer an associated community benefit package which could fund local projects.**

## Carrick Windfarm 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, Carrick Windfarm 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.

**“The additional work from ScottishPower Renewables over the past few years has meant we were able to add and retain additional staff and equipment. Our local economy is enhanced through the employment, investment and most importantly the green energy that ScottishPower Renewables provide.”**

Tony Chalkley, D Horne Services Ltd.



## Construction & Operation

During construction, Carrick Windfarm could provide approximately:

- 140 jobs and £8.8 million Gross Value Added (GVA) annually in South Ayrshire;
- 421 jobs and £26.4 million GVA annually in Scotland; and
- £41 million spent in total in Scotland.

During operation, Carrick Windfarm could provide approximately:

- 25 jobs and almost £1 million GVA annually in South Ayrshire;
- 35 jobs and £1.3 million GVA annually in Scotland;
- a lifetime GVA of £38 million to the local economy through both direct and indirect effects; and
- over £50 million to the Scottish Economy 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 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 Carrick Windfarm include:

- displacement of around 64,802 tonnes of CO<sub>2</sub> per year over a grid mix of electricity, and 2.5 million tonnes of CO<sub>2</sub> over the lifetime of the project (assuming a 40-year lifetime for the purposes of the Scottish Government's Carbon Calculator<sup>(3)</sup>);
- repayment of the carbon emissions related to its construction, operation and decommissioning in 3.5 years; and
- Battery Energy Storage System (BESS) to store energy, providing stability to the electricity supply network, meeting energy demands and providing improved energy security.



## Environment

Carrick Windfarm would incorporate environmental enhancements including a Habitat Management Area to provide wider benefits for nature and biodiversity. This would encompass the restoration of 28 ha of peatland habitat, the majority of which has been historically modified by drainage and cultivation for commercial forestry. The aim is to re-wet the peat in this area and restore it to functioning peatland. Restored peatlands are beneficial for a range of species and biodiversity as a whole, as well as providing increased carbon storage and water quality benefits.

## Powering the Future

Onshore wind is one of the lowest cost forms of new power generation available<sup>(4)</sup>.

UK public support for onshore wind has reached 80% according to the BEIS Attitudes Tracker<sup>(5)</sup> published December 2021.





#### References

- (1) BEIS (2018) 'Sub-National Electricity and Gas Consumption Statistics' (based on average household consumption of 3729 KWh).
- (2) BVG Associates (2017) 'Economic benefits from onshore windfarms'.
- (3) Scottish Government carbon calculator for windfarms V1.6.1.
- (4) BEIS (2020) Electricity Generation Costs.
- (5) BEIS (2021) Public Attitudes Tracker: Autumn 2021.

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## Better future, quicker



Cover Image: Visualisation of the 13 turbines proposed at Carrick Windfarm, turbine tip height 200m.  
Other Images: Whitelee Windfarm, turbine tip heights 110m & Kilgallioch Windfarm, turbine tip heights 146.5m.