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Key benefits include:
• 106,000 tonnes of CO2 avoided annually, from the wind turbines compared with a fossil fuel-mix of electricity generation.
• The development is promoted as ‘in perpetuity’ but for an assumed 40-year operational life of the turbines, the turbines would save over 4.24 million tonnes of CO2 compared to a fossil fuel mix of electricity, and will repay the carbon emissions related to its construction in around 2.8 years.

Construction & Operation

Construction Phase:
• Local contractors and suppliers in the local area could secure initial construction contracts worth up to £7.7 million GVA.
• Contracts worth up to £35.1 million could be available to the wider Scottish market.
• Creation of up to 116 job years of employment in Dumfries & Galloway and South Ayrshire and up to 542 in Scotland as a whole during construction.

Operational Phase:
• Positive operational impact of £0.7 million per annum GVA locally.
• Positive operational impact of over £1.1 million per annum GVA in Scotland.
• Around 9 FTE jobs in the area during operation, further FTE jobs are expected to be supported directly and indirectly elsewhere in Scotland.

A Habitat Management Plan (HMP) is proposed as part of the Development, which will enhance the nature conservation value of the renewable energy site. The Habitat Management Area (HMA) encompasses a total area of 45 hectares of land, and will support the conservation of wetland and riparian habitat. The project would bring forward and increase broadleaf woodland by 24 hectares with associated environmental benefits.

Climate Change & Carbon Reduction

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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. The company is investing over £4m every working day to make this happen and is committed to speeding up the transition to cleaner energy by improving air quality and over time, driving down bills to deliver a better future, quicker for everyone.

In 2017 a report by BVG Associates considered economic benefits from eight onshore windfarms commissioned by SPR in South West Scotland during 2016-17. A summary of the findings showed:

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**About ScottishPower Renewables Site Summary - key facts Economic Benefits**

- **18 wind turbines**
- **200m tip height**
- **Installed capacity of around 100MW**
- **In comparison to smaller turbines the new larger generators will produce around 4 times the annual power output(5)**
- **Generating enough power for around 84,000 homes**
- **In 2017 a report by BVG Associates considered economic benefits from eight onshore windfarms commissioned by SPR in South West Scotland during 2016-17. A summary of the findings showed: (1)**
- **A total investment of £1.6 billion**

**Benefits to the Community**

SPR has a long association with South West Scotland windfarms in both South Ayrshire and Dumfries and Galloway. Community benefit funds have contributed to a wide variety of good causes in South Ayrshire, which include:

- **25 skills and employment projects**
- **27 environmental projects**
- **158 youth and education projects**

Some examples are:

- Provision of winter fuel payments to households in Barrhill.
- Running a bus service between Barr and Girvan.
- Purchase of new playground equipment in Barr and Barrhill.
- Employment of a village handyman and purchase of a new mower, shed, scarifier and mudge machines for Barrhill.
- Purchase of a Scottish Ambulance first responders bag for Barrhill.
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**Economic Benefits**

**Community Benefit Fund and opportunity for shared ownership**

- **66% UK content**
- **51% Scottish content, including 16% local (south west Scotland)**

**Jobs supported - Meet the contractor days for local business opportunities**

**Battery storage to provide ancillary services to National Grid**

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**Site Summary - key facts**

**Kilgallioch Windfarm, turbine tip heights 146.5m.**

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**Better future, quicker**

To date, SPR has contributed over £6.3 million in community benefit funding to communities in South Ayrshire, and over £2 million toward initiatives in Dumfries and Galloway.

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**Cover image:** Kilgallioch Windfarm, turbine tip heights 146.5m. and Whitelee Windfarm, turbine tip heights 110m.