

Glentarken Wind Farm Public Consultation





Welcome

About this exhibition

Thank you for taking the time to visit our exhibition for the proposed Glentarken Wind Farm. The purpose of this exhibition is to share our final design plans with local communities and interested parties to gather feedback, ahead of submission to the Energy Consents Unit (ECU).

We want our exhibitions to be an opportunity for you to raise questions or concerns and to share any comments that you might have.

Here at SSE Renewables, we want to continue working in collaboration with the communities around our projects and take all feedback and comments into account. This is important to us at all stages of development.

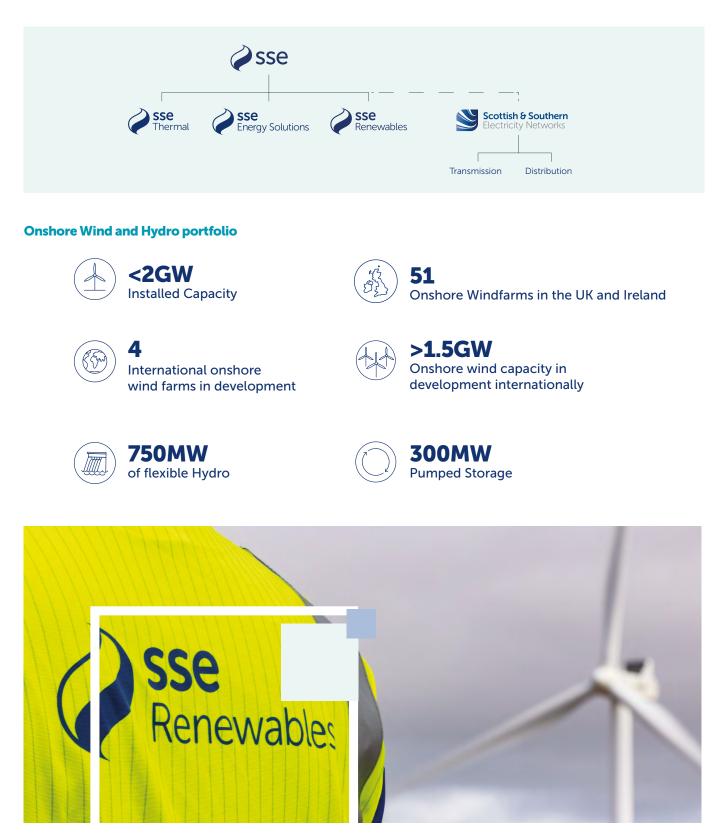
Please take as much time as you like to view the information boards on display and chat with the project team who are on hand to assist with any questions you may have.



Who is SSE Renewables

SSE Renewables is a leading developer and operator of renewable energy, headquartered in the UK and Ireland, with a growing presence internationally. Our strategy is to lead the transition to a net zero future through the world-class development, construction and operation of cleaner power assets across a mix of renewable technologies.

We are part of SSE plc, the UK-listed energy infrastructure company which is investing around £7bn to 2027, or almost £4m a day on average, to support the delivery of SSE's Net Zero Acceleration Programme to address climate change head on. This includes plans to increase installed renewable energy capacity to around 9GW by 2027, including the delivery of the world's largest offshore wind farm in construction.



SSE Renewables in Central Scotland

Onshore Wind in Perthshire

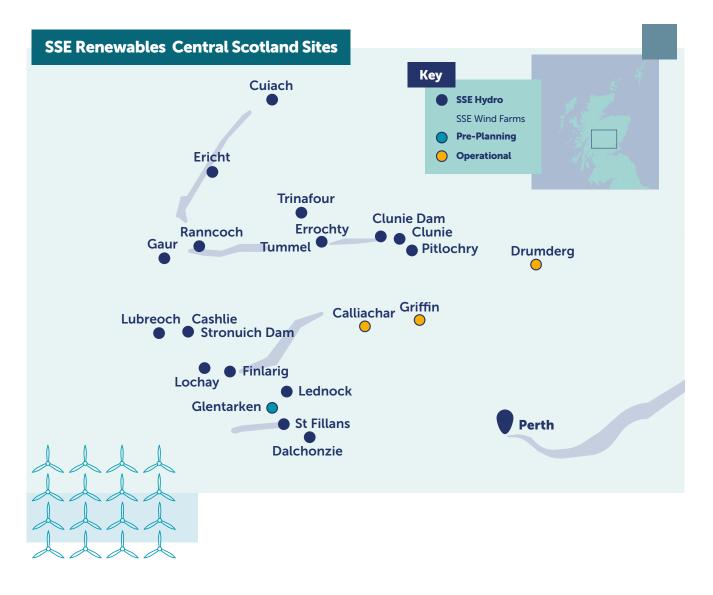
We operate onshore wind farms at Griffin and Calliachar, near Aberfeldy and Drumderg, near Aylth.

- Griffin began operating in 2012, its 68 turbines generate an installed capacity of up to 156 Megawatts (MW).
- Neighbouring Calliachar, which achieved first power in 2013, has 14 turbines and an installed capacity of up to 32 MW.
- Drumderg is one of SSE Renewables oldest wind farms, completed in 2008, located in Perthshire, approximately 5km to the northeast of Bridge of Cally and around 10km to the northwest of Alyth, the site has 16 turbines, generating up to 36.8MW.

Hydro

SSE Renewables also boasts a rich tradition of hydro operations in the region.

- Locally, the Breadalbane scheme features seven interlinked power stations, including St Fillans around Loch Lyon, Loch Tay and Loch Earn.
- The Tummel Valley scheme consists of nine power stations between Dalwhinnie and Pitlochry. SSE Renewables recently completed a £50 million refurbishment of Tummel Bridge Power Station to ensure it can be part of Scotland's energy mix for generations to come.



Project Timeline



Site Feasibility

Assessment of a wide range of parameters at the proposed development site was completed to understand feasibility. These include wind speed, grid availability, landscape, topography, turbine technology, accessibility, environmental and cultural concerns.

Scoping 2022-2023

A Scoping report was submitted to statutory and non-statutory consultees in December 2022. The feedback 'the Scoping opinion' was received in February 2023, informing the content of the Environmental Impact Assessment report.

First Public exhibition April 2023

Exhibitions are held to present early-stage proposals and allow people who live and work in the area to offer feedback at an early stage.

Environmental Surveys 2021-2024

Ornithology surveys began in spring 2021 and continued for 2 years. A team of environmental consultants were appointed to carry out environmental survey works until spring 2024, including habitat and protected species surveys.

Second Public Exhibitions May 2024

Exhibitions were held to present revised proposals and allow people who live and work in the local area to provide further feedback at this interim stage.

Environmental Impact Assessment report 2024

The results of environmental survey and assessment works is considered in line with the scope of the EIA to inform the final site layout. This information is then presented within an EIA report which supports the Section 36 application (S36). As this application has an installed capacity greater than 50MW, it will be submitted to the Scottish Government's Energy Consents Unit (ECU).



Third Public Exhibitions November 2024

These exhibitions are to present our final site design plans and to share the findings from the EIA process and to talk through the next steps in the process. Feedback, questions, concerns or comments are welcome ahead of submission to the Energy Consents Unit (ECU).





Submission of Section 36 Application Winter 2024

The S36 application and supporting EIA report will bec submitted to the ECU, who will consult with statutory and non-statutory consultees. Copies of the §application and the EIA report will be made available for stakeholders to review (including local community councils).

The documents will also be available for public viewing during the consultation period when it will be assessed against relevant policies, in conjunction with stakeholder feedback. The application will then be determined by the Scottish Ministers.

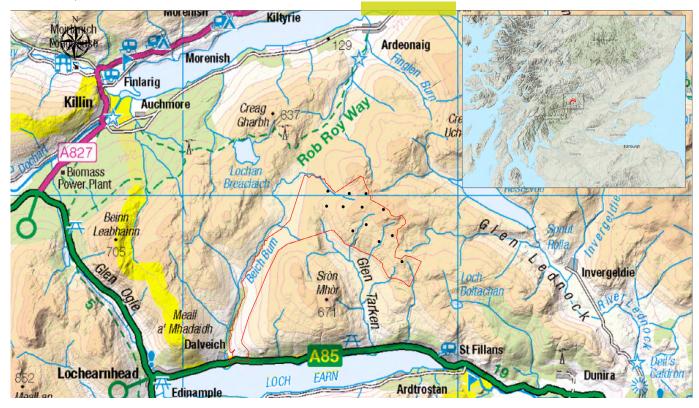


The Project

The final proposed design has been developed with specialist survey work, technical modelling, feedback through engagement with communities, stakeholders and an iterative and detailed design process since 2021. If constructed, Glentarken Wind Farm will play an important part in helping the UK address the climate emergency, meet climate goals and end reliance on volatile energy markets, providing more secure homegrown energy.

The proposed Glentarken Wind Farm is located approximately 45km west of Perth within the Drummond Estate. The majority of the site boundary lies within the Perth and Kinross Council area, with access to the proposed development sitting within the Stirling Council area.

We are proposing to build up to 12 turbines with a maximum tip height of up to 180m, as well as ancillary infrastructure such as access tracks, turbine foundations and crane hardstandings at each turbine, construction compounds, onsite substation, operational building, batching plant and borrow pits. A battery energy storage solution (BESS) is also proposed to optimise the renewable energy generation capacity at the site.



Site location plan





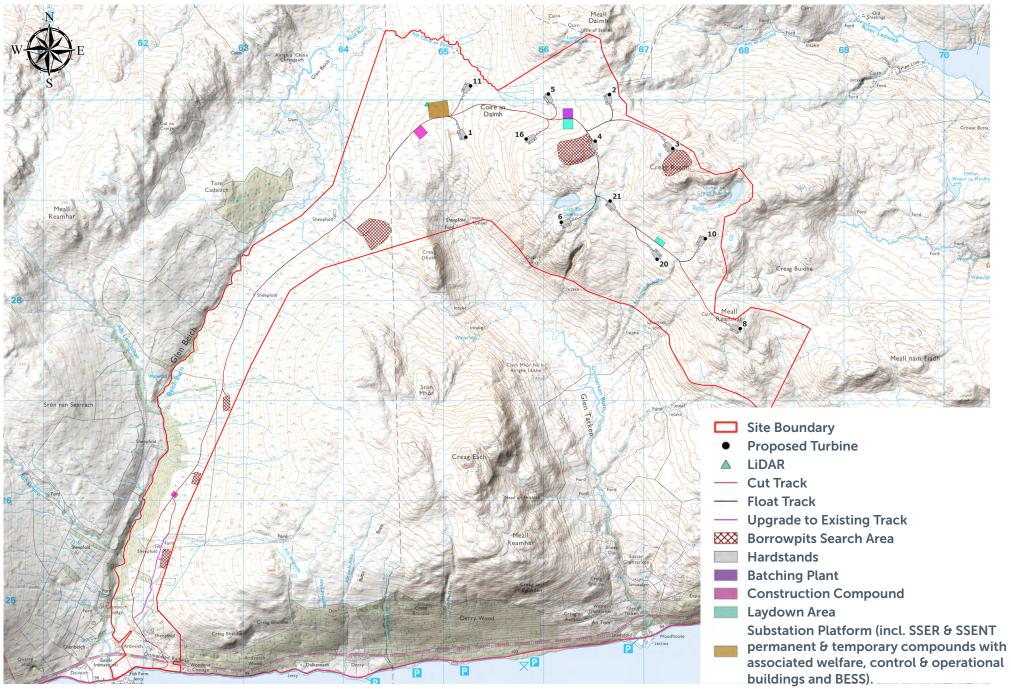


Power up to 75,000 homes



Grid Connection - Late 2031

Site layout plan



Environmental Impact Assessment

Extensive environmental survey and assessment work has been undertaken to develop a robust design on extremely challenging topography whilst ensuring we capture the excellent wind resource. Particular attention has been paid to minimising impacts on sensitive habitats, avoiding deeper areas of peat, species and ornithological sensitivities whilst minimising landscape and visual effects, as much as possible.

Ecology Biodiversity and Nature Conservation

Baseline studies have shown that the site is used by badger, bats, hare, otter, reptiles and trout with low levels and distribution of species activity.

The most extensive habitats within the site are blanket bog, acid dry dwarf shrub heath and unimproved acid grassland. Acid neutral flush, wet modified bog, marshy grassland and coniferous plantation woodland are also present with the remainder being a range of woodland, grassland, heath, flush, mire, swamp and exposed ground.

Following the implementation of Biodiversity and Habitat Management activities, mitigation measures and best practice throughout each phase of the development, no significant effects are anticipated.



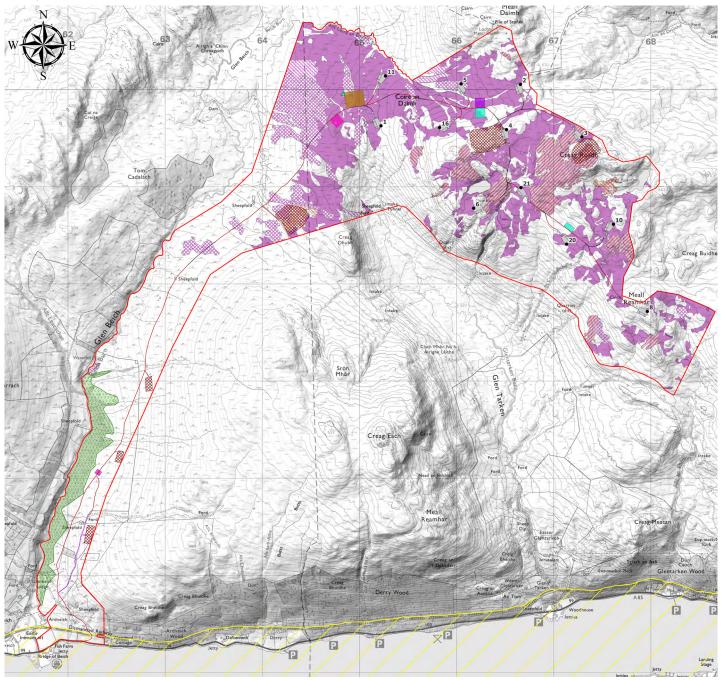
Griffin Wind Farm - Wetland Creation







Mountain Hare



	Site Boundary	
•	Proposed Turbine	
	LiDAR	
	Cut Track	
_	Float Track	
	Upgrade to Existing Track	
\otimes	Borrowpits Search Area	
	Hardstands	
	Batching Plant	
	Construction Compound	
	Laydown Area	
	Substation Platform (incl. SSER & SSENT permanent & temporary compounds with associated welfare, control & operational buildings and BESS).	
Phase 1 Habitat Description (Code)		

	888	Unimproved Acid Grassland/Wet Modified Bog Mosaic (B1.1/E1.7)
	///	Acid Dry Dwarf Shrub Heath /Blanket Bog Mosaic (D1.1/E1.6.1)
	///	Wet Dwarf Shrub Heath/Blanket Bog Mosaic (D2/E1.6.1)
0 ~ 7 10 0		Dry Heath/Acid Grassland Mosiac/ Blanket Bog Mosaic (D5/E1.6.1)
ALLING ALLING	888	Wet Heath/Acid Grassland Mosiac/ Blanket Bog Mosaic (D6/E1.6.1)
		Mosaic (D5/E1.6.1)
1 10 VIII 10	****	Blanket Bog/Wet Modified Bog Mosaic (E1.6.1/E1.7)
R	[]].	Blanket Bog/Acid Neutral Flush Mosaic (E1.6.1/E2.1)
	X X/	Blanket Bog/Bare Peat Mosaic (E1.6.1/E4)
	XX	Wet Modified Bog (E1.7)
		WEARA DOLLAR A TIME A L

Wet Modified Bog/Acid Neutral Flush Mosaic (E1.7/E2.1)

Environmental Impact Assessment

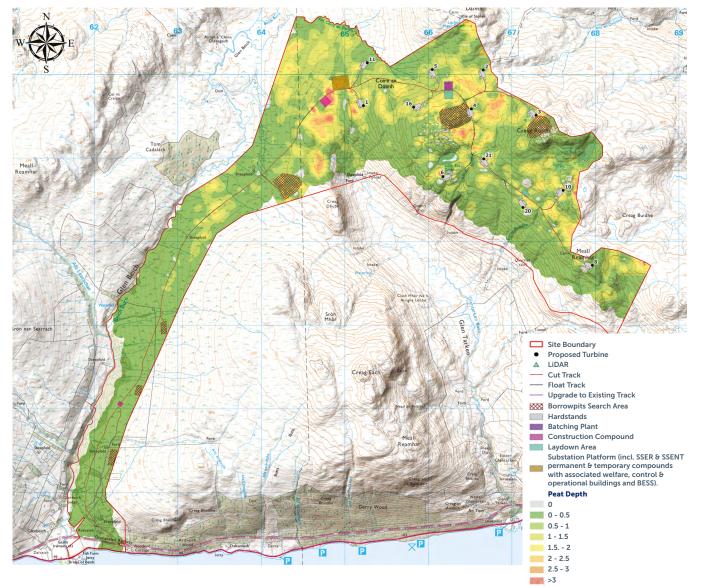
Hydrology, Geology and Hydrogeology

An assessment of the potential effects on geology (including soils and peat) and the water environment (hydrology and hydrogeology) has been carried out. Field work included investigation of water sources (including Private Water Supplies), water quality, groundwater dependent terrestrial ecosystems and hydrological survey, to determine which elements might be hydrologically connected to and at risk from the Proposed Development. Measures required to protect these elements will be applied at all stages of the project, including in a site-specific private water supply (PWS) risk assessment and baseline and construction phase water quality monitoring.

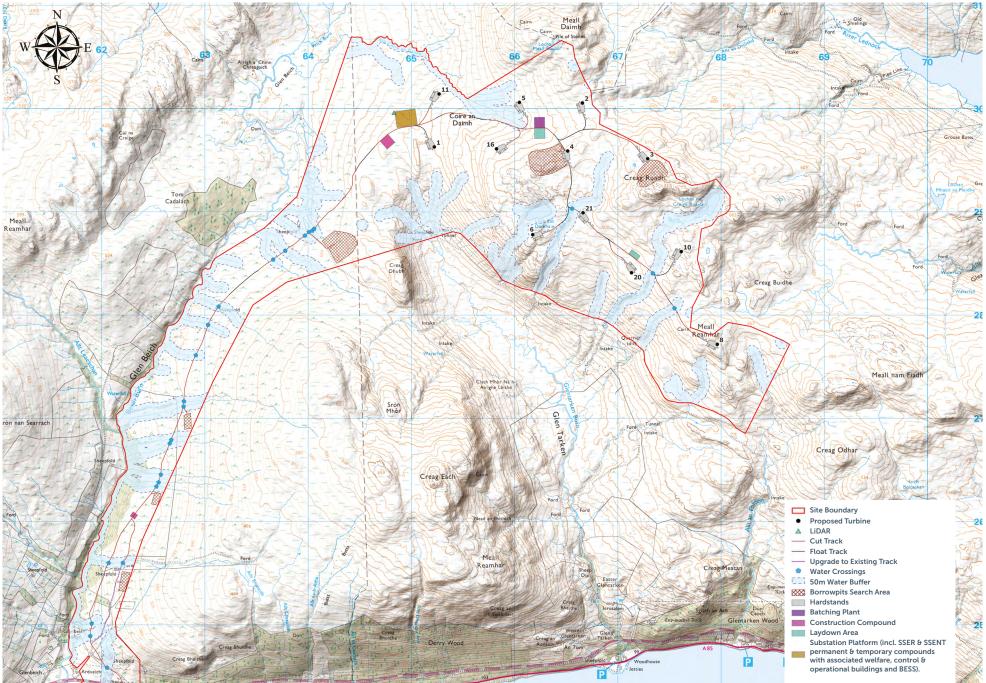
Further field work included a programme of peat depth probing, peatland condition and borrow pit assessments. Wherever possible, areas of deep peat have been avoided and the assessment has considered all the proposed infrastructure. Project specific management plans have been prepared which identify and manage key elements such as peat slide hazards, safeguarding of soils and peat on site and to inform calculations for peat excavation, carbon balance and how reuse volumes can be reused beneficially in restoration works on site.

With the adoption of best practice construction techniques and a site-specific Construction Environmental Management Plan (CEMP), no significant effects are anticipated.

Site Geology



Site hydrology



Environmental Impact Assessment

Continued

Since 2021, two years of Baseline studies have been carried out which have established that the site and adjacent habitats are used by foraging and breeding species such as golden eagle, merlin, red kite and owls. Ground nesting waders have also been recorded, including curlew.

The field survey results have informed the design layout and careful positioning of the turbines. The design has also taken into consideration potential impacts on the bird populations, collision risk, displacement and disturbance during both the construction and operational phases of the wind farm.

Habitat enhancement measures for bird species and wider biodiversity will be included in areas away from operational infrastructure and beneficial habitat reinstatement activities would normally follow construction works. Following these measures, effects are considered not significant in EIA terms.





Dunlin

Golden Eagle

Noise

Noise has been assessed in line with national guidelines, current good practice and in consultation with Perth & Kinross Council (PKC). Although some noise is associated with construction, this is temporary and will be minimised as much as possible via the Construction Environmental Management Plan (CEMP).

Given the significant distances between the site substation, BESS and residential receptor locations, (about 4.8 km) operational noise is very unlikely to be audible. Noise scenarios from turbines on site, considered in isolation and cumulatively including the proposed Glenlednock Wind Farm, both meet ETSU-R-97 noise limits and are therefore considered not significant. However, noise limits would be controlled via planning conditions to ensure that these are strictly controlled throughout the operational phase.



Aviation

The potential effects of wind turbines on aviation are carefully considered alongside aviation authorities as the primary concern is safety. Wind turbines can present a physical obstruction to aircraft, they can also have an impact on Surveillance / Radar systems and Air Traffic Services Communication, Navigation and Surveillance (CNS) equipment.

As a statutory Civil Aviation Authority requirement, visible aviation warning lights must be fitted to structures of a height of 150 m or more. Additionally, the Ministry of Defence require MOD-accredited infra-red lighting which is only visible to aircrew using night vision equipment. The turbines will be erected with a mixture of visible and infra-red lighting installed.

Cultural Heritage

Cultural Heritage surveys consider the likely effects on historical environment sites and archaeology within the site and within 10km. Detail gathered from desk and field survey works was further informed through consultation with Historic Environment Scotland, Perth and Kinross Heritage Trust and Stirling Council Archaeology Service. A range of assets were identified on site such as sheep folds, structural remains, cup marked stones and cairns. Measures to protect and avoid these during construction would be put in place. In addition, an Archaeological Clerk of Works would also be employed to carry out a watching brief during construction and to mark off any areas to be protected.

Viking Wind Farm - Shetland



Access and Transport route

A key consideration in shaping our proposal has been to ensure our transport route is as efficient and safe as possible, but also to minimise impact where possible.

Turbine components would be transported from the Port of Grangemouth, travelling along the M9 till Junction 10 where they would join the A84.

The Loads would continue their journey passing Doune, Callander and Balquidder. At the junction with the A85 in Lochearnhead, loads would then turn right onto the A85 eastbound, passing through Lochearnhead before turning left into a purpose-built access junction onto a new Wind Farm site entrance.

Turbine Deliveries - Moving Abnormal Loads

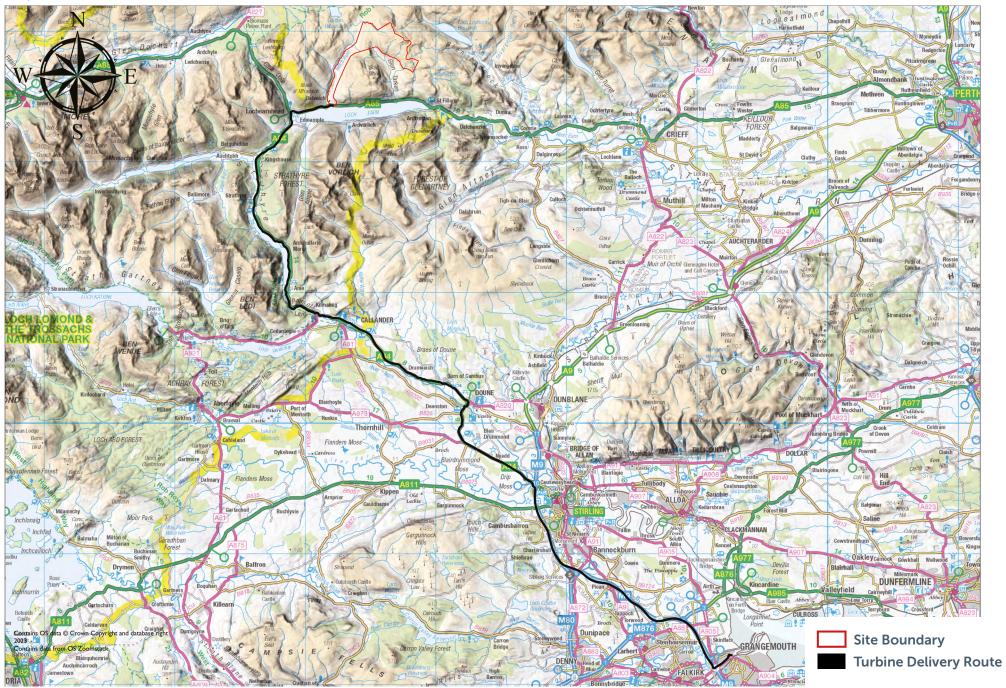
We know that one of the biggest impacts at construction stage is the transportation, specifically the delivery of large turbine components, or abnormal loads.

To move an abnormal load within Scotland, these must be escorted by Police Scotland under 'The Road Vehicles (Construction and Use) Regulations 1986' legislation.

Months of careful planning and discussions with Police Scotland, Transport Scotland and local planning authorities takes place to ensure convoys are planned to avoid peak travel periods and cause minimal disruption. Police Scotland escort all turbine deliveries and determine the delivery days and times.

Abnormal loads are not permitted to travel during peak hours, this is to minimise the disruption to road users and to keep the road network flowing during key periods such as rush hour and school drop off and pick up. These are Monday-Friday between 6.30am-9.30am and 3.30pm-6.30pm.





Our environmental commitments

Nature Positive - We're tackling the climate and biodiversity crises simultaneously.

While accelerating towards net zero by developing and operating renewable energy assets, we are aware of the responsibility on us, as a responsible and sustainable developer, to build and maintain our sites in harmony with nature.

At the core of our approach to protecting the natural environment is ensuring that we continue to meet our legal and regulatory requirements, protecting the environment at all phases from development through to asset management (operations) and decommissioning.

SSE Renewables have targeted the Biodiversity Net Gain ambition of no biodiversity net loss on onshore sites consented from 2023 and a biodiversity net gain on sites consented from 2025 onwards. SSE Renewables are committed to providing a measurable benefit to nature conservation and this is typified in the development of our ten-point plan for biodiversity.measurable benefit to nature conservation and this is typified in the development of our ten-point plan for biodiversity.

Wildflower trackside reinstatement - Ireland



Our ten-point plan for biodiversity



1. Deliver Biodiversity No Net Loss on major onshore projects consented from 2023



6. Actively participate in industry forums to support the development of BNG across all renewable technologies



2. Deliver Biodiversity Net Gain on major onshore projects consented from 2025*



7. Contribute to research projects and the creation of knowledge around BNG in the renewables sector



ambitions in decision-making at each stage of all new project developments from 2023



8. Trial new approaches for BNG on offshore projects, including digital innovations



4. Use our BNG Toolkit and collaborate with partners to identify biodiversity improvements on operational sites



9. Develop the concept of 'Habitat Banks' with a transparent methodology for applying BNG credits



5. Evolve our BNG Toolkit and approach to enable use in all geographies



10. Lead the BNG working group of the Powering Net Zero Pact, a collaboration of global power sector companies

*This includes repowering and decommissioning projects.

To find out more visit: sserenewables.com/sustainability/biodiversity-net-gain/





Working with the Comunity Delivering benefit locally

SSE Renewables has a long-term commitment to investing in our local communities. Over the next 25 years, SSE Renewables' community benefit funds will generate at least £330 million across all UK and Ireland projects.

We have always been committed to sharing the value of our renewable energy projects with communities, maximising the benefits of local, sustainable power. Our ambition is that our community benefit funds deliver a real difference that reflects the priorities of local people. We think the best way to achieve this is for these funds to be created in collaboration with local communities, and for local people to have a role in making decisions over grant awards.

A community investment fund will be established for Glentarken Wind Farm valued at £5,000 per MW installed wind energy capacity per year and index linked to CPI. The funding will be available once main construction starts and will remain in place for the operational life of the project.

£2,500 per MW will be distributed to local communities and £2,500 per MW will contribute to SSE Renewables' regional Sustainable Development Fund, which supports transformative projects across the regions in which we operate onshore wind farms. The Sustainable Development Fund is overseen by a panel of independent experts.

The local funds can be managed either by a panel of local people, with administrative support from SSE's Community Investment Team, or by local community organisations, where agreed following local consultations.

We are already delivering benefit in the Perth & Kinross region through our Griffin, Calliachar and Drumderg Wind Farms, making around £600,000 per year available for community and charitable projects. In the past 16 years, over £8 million has been awarded to local projects in the communities surrounding these wind farms. Between 2008 and 2036, we expect to invest £13.6 million in local projects from these existing funds.





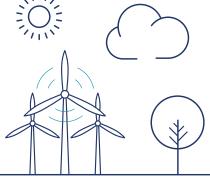
How our funds are used locally

We are committed to supporting the communities in which we live and work; through our community benefit funding we aim to share the value generated by our projects with the communities we are part of.

Community Fund

Annual value of Glentarken community benefit funding: **£372,000**

Lifetime value: at least £9,300,000



Assuming wind capacity is 74.4MW

Assuming minimum life of 25 years



Here is a snapshot of some of the projects SSE Renewables have funded in the local area.



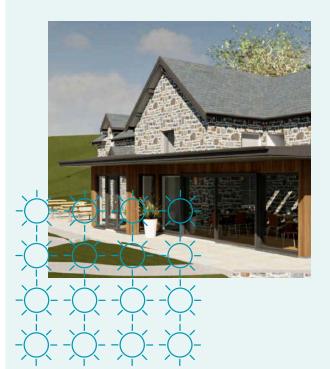
Griffin & Calliachar Community Funds

- Building a covered multi use games area in Dunkeld. (Pictured left)
- Enabling the Scottish Crannog Centre to create a visitor centre in Kenmore.
- Establishing a community fitness trail in Aberfeldy.

Drumderg Community Funds

- Supporting the Alyth Youth Partnership to provide weekly activities for young people.
- Providing transport for Blairgowrie Riding for the Disabled. (Pictured right)
- Providing a weekly lunch club for the elderly in Alyth.





Perth & Kinross Sustainable Development Fund

- Installing heat pumps, solar PV and battery systems at community centres to reduce energy bills and address climate change. (Pictured left)
- Offering learning programmes like maths and literacy tuition for care experience pupils and preparing s5 and s6 students for work.
- Supporting rural small and micro businesses including a community care cooperative.

Seeking your feedback

This exhibition is part of the ongoing conversation between SSE Renewables and stakeholders like you, who have an interest in the proposal. This is a further key point in the project for us to share our plans and an opportunity for you to raise questions, concerns or provide any comments that you might have.

We will continue to engage with community groups, residents, business owners and other interested parties ahead of final design submission to the Energy Consents Unit (ECU) and thereafter.

Building these local relationships and trust is really important to us.

Further information will be available at: **sserenewables.com/Glentarken**

We would very much welcome any feedback and support and so we have provided feedback forms which are available in the hall. Alternatively, please submit one online by using this QR code:





Keeping in touch

Our ambition is to work collaboratively with our stakeholders during the development, construction and operation of our assets, so that as many areas as possible can be kept up to date and benefit positively.

We know that there is no one size fits all approach when it comes to working with the communities in which we work. That is why we seek to make ourselves as accessible as possible.

Your dedicated SSE Renewables Stakeholder Engagement Manager, Pauline Allison, will look to keep the community up to date throughout the development, construction and operational stages by:



Community Liaison Groups

Setting up regular meetings with community representatives to discuss the project and upcoming activities (Construction Phase).



Email Updates We will provide regular updates on the progress of the project.



Project point of contact

Pauline Allison will be available by phone for any questions you might have relating to the project.



Website

Providing project information and milestones, such as turbine deliveries.



Building links with local schools Engaging with the future workforce.



Newsletters

We will share regular updates from the project and community engagement. (Construction Phase)



Face to face chats

Being based in Central Scotland allows the opportunity to sit down for a cup of tea and a chat.



Pauline Allison Stakeholder Engagement Manager

\u00e9 +44 (0)7880 180 662



For more visit sserenewables.com or sserenewables.com/glentarken

SSE Renewables Registered in United Kingdom No: SC435847

Registered Office: Inveralmond House, 200 Dunkeld Road, Perth, PH1 3AQ.

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