



Statkraft

Welcome

About Statkraft

- Europe's largest generator of renewable energy
- Active in wind, solar, hydro, energy storage, grid stability, EV charging, green hydrogen and eFuels
- 6,000 employees in 22 countries, all working towards our low carbon future
- Invested over £1.3 billion in the UK's renewable energy infrastructure
- Operating in the UK since 2006
- Distributed over £4 million to UK communities near operating wind farms
- Scottish head office in Glasgow, with plans for local office in Shetland
- Own 3 consented wind projects in Shetland – Energy Isles and Beaw Field on Yell and Mossy Hill, near Lerwick
- Actively exploring development of green hydrogen and eFuels projects in Shetland
- Members of Shetland Net Zero Forum

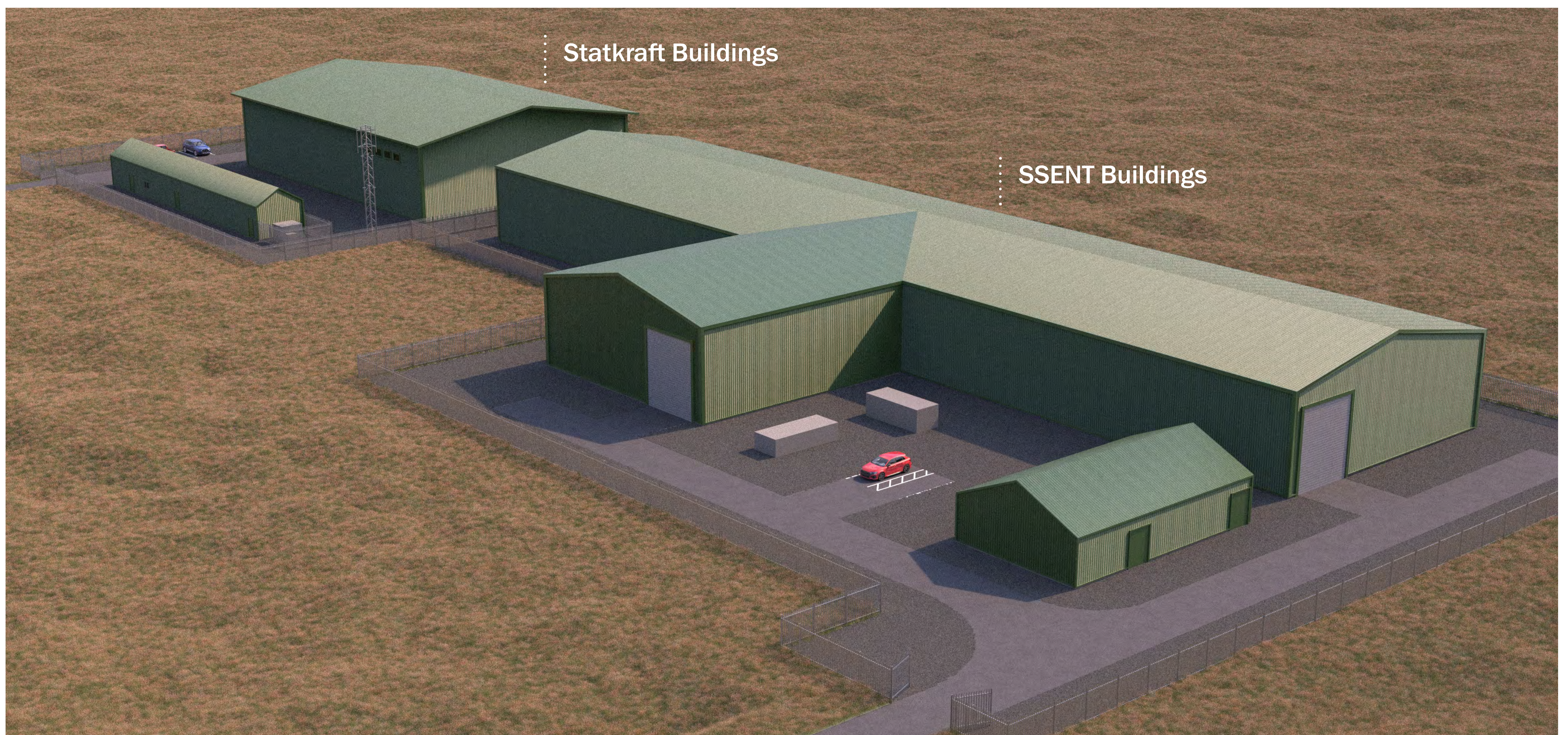


SNZ
2024 Member



Statkraft

About the Proposal



Illustrative 3D image of the proposal

The Need

The new substation is required to connect the consented Mossy Hill Wind Farm into new electricity grid infrastructure that SSENT are installing through the site, from Kergord to Gremista. This infrastructure comprises two 132kV underground cables, with the connection for Mossy Hill connecting into one of these cables. The wind farm operates at 33kV and the new substation operates at 132kV. The substation will transform the voltage from 33kV to 132kV.

The Kergord to Gremista cables form a key part of the new electricity network in Shetland and will allow customers to be supplied directly from the Scottish Mainland via the new subsea cable. The new substation will therefore include electrical switchgear and associated protection equipment to ensure both supplies to customers and the wind farm operate reliably.

Statkraft has a grid connection agreement with National Grid ESO which is the licenced energy system operator for Great Britain. Under this agreement, it is required to consent the new substation.

Proposed Development

This substation development is to replace two smaller substation buildings that were consented as part of the Mossy Hill Wind Farm approval.

The majority of the new substation will be built, owned and maintained by SSENT and operated by National Grid ESO. It is expected that the substation will comprise of 2 main buildings, the larger one for SSENT and the smaller one for Statkraft. The SSENT building will contain most of the electrical switchgear to allow Mossy Hill to connect into one of the Kergord to Gremista cables. The Statkraft building will contain a transformer to step-up the voltage from 33kV to 132kV.

There will also be two smaller buildings, a control and welfare building for SSENT and for Statkraft a building to bring together the cables from the wind turbines. This will also include a control room and welfare facilities for staff working on the wind farm.

During construction each of the two main buildings will have its own dedicated construction compound that will be removed upon completion of the substation.



Who we are

SSEN Transmission (SSENT) are responsible for the electricity transmission network in the north of Scotland, maintaining and investing in the high voltage 132kV, 220kV, 275kV and 400kV electricity transmission network.



Environment

Environmental Considerations

Statkraft has appointed a team of specialist environmental and technical consultants to undertake surveys and assessments of the site.

The environmental assessment process aims to assist SIC in their determination of an application by identifying any environmental effects predicted. The environmental assessment process is iterative, and consultation will be undertaken throughout the process to take into consideration feedback which will inform the project design and layout. A screening request on the approach to the environmental assessment has been submitted to SIC.

The planning application for the proposed development will include a series of detailed technical assessments and a Supporting Environmental Information Report (SEIR), which will be publicly available following submission of the application.

Environmental Appraisals will include:

- Landscape and Visual
- Ecology and Ornithology, informed by:
 - ⇒ Habitat and Protected Species surveys
 - ⇒ Outline Biodiversity Enhancement Management Plan
- Geology, Peat, Hydrology and Hydrogeology, informed by:
 - ⇒ Further peat depth surveys
 - ⇒ Peat Management Plan
- Flood Risk Assessment and Drainage Strategy
- Archaeology and Heritage
- Noise, based on worst case operational noise
- Traffic and Transport Statement and a Construction Traffic Management Plan



View looking south-west across proposed site

Environmental Survey Work

There were field and desk-based surveys undertaken of the site prior to submission of the Mossy Hill Wind Farm planning application. The surveys of the site included:

- Landscape and Visual survey of the site and surrounding area
- Ecology – habitat and protected species surveys
- Ornithology – flight activity and breeding bird surveys
- Archaeological walkover survey
- Peat depth surveys and peat coring
- Hydrological walkover
- Background noise survey
- Collection of traffic flows and speed data

For the substation application additional and refresh surveys will be undertaken. These will include landscape and visual, ecology, ornithology, and peat field surveys.



Timeline

Thank you for visiting

Your comments and feedback are important to us.

When the planning application is submitted to SIC interested parties and statutory consultees will have the opportunity to formally comment on the application. All of the information will be available on the SIC's and our project website at the time of submission.

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Indicative timeline