



Guy Nicholson, Head of Statkraft UK Greener Grid Parks (right) with colleagues on a tour of Shetland

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Welcome

Our team are here to discuss our plans, listen to your views and outline the next steps of the Proposed Development.

About Statkraft

- The largest generator of renewable energy in Europe
- Operating in the UK since 2006
- Offices across the UK
- Development pipeline includes wind, solar and grid stability services
- Distributed over £2 million to communities near operating renewables projects
- A state owned utility with origins in Norwegian hydropower over 125 years ago



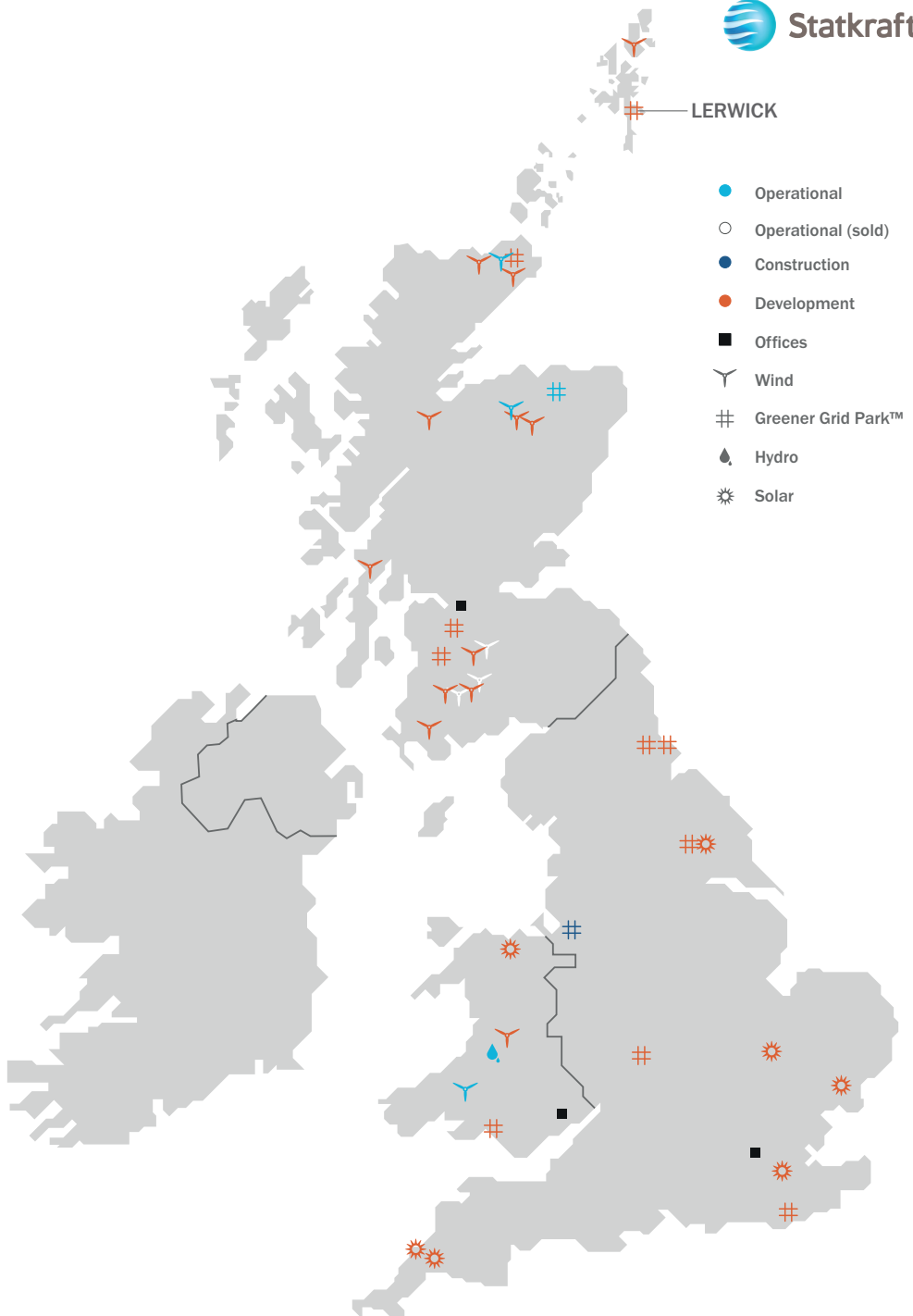
20 British utility-scale solar farms

Welcome

Statkraft in the UK

- Offices in Glasgow, London and Cardiff
- Developing Energy Isles Wind Farm in the north of Yell
- Operational portfolio in the UK includes one Greener Grid Park, five wind farms and one hydro plant
- Delivering grid stability services for National Grid in Moray and Liverpool with upcoming projects in South West Scotland
- Recent expansion into solar development and electric vehicle charging points
- Over 1GW of wind and solar projects in development
- 10 Greener Grid Parks in development





Introducing Lerwick Greener Grid Park

The energy supply on Shetland will see a major change in the near future. Currently, Shetland's electricity is supplied from the Gremista diesel power station, Sullom Voe gas turbines and renewable sources.

Statkraft are proposing a Greener Grid Park to provide an important service across the Shetland Isles, to ensure a continuous electricity supply. This is an innovative new way to provide grid stability which significantly reduces the need for diesel generators and protects the Shetland Isles power supply.



Keith Greener Grid Park, Moray

SHET (SSE Transmission) are improving Shetland's grid with a new, cleaner, lower cost energy supply enabled via a long subsea cable (HVDC link) which will run from the UK to Shetland.

When this cable is in maintenance or if it trips, the diesel generator will be on standby to provide backup generation to Shetland. The diesel generator will take some time to start up, so to ensure there is continuity of supply, Shetland needs a fast acting and clean solution to keep the lights on.

SHEPD (SSE Distribution who are responsible for the supply in Shetland) are introducing the 'Shetland Standby' service which will bridge the gap between a fault on the HVDC link and the diesel station getting online. Statkraft are bidding into SHEPD's competitive tender to deliver this service.

About Greener Grid Parks

Greener Grid Parks are facilities including buildings, compounds and containers, housing zero carbon technology which stabilise the grid, allowing more renewable energy to be transmitted through the network. They are not a wind farm or solar farm, but may import, store, and export electricity.



Synchronous Compensator

Large machines with built-in flywheels provide grid stability without emitting any carbon dioxide – decarbonising the grid and saving consumers money.

Find out more at: www.statkraft.co.uk/grid-services

The Lerwick Greener Grid Park is expected to use synchronous compensators and a battery energy storage system (BESS) to deliver this grid stability service instantaneously and for a duration long enough to get the necessary diesel generators online.

Greener Grid Parks are pioneering projects which help achieve zero carbon emissions.



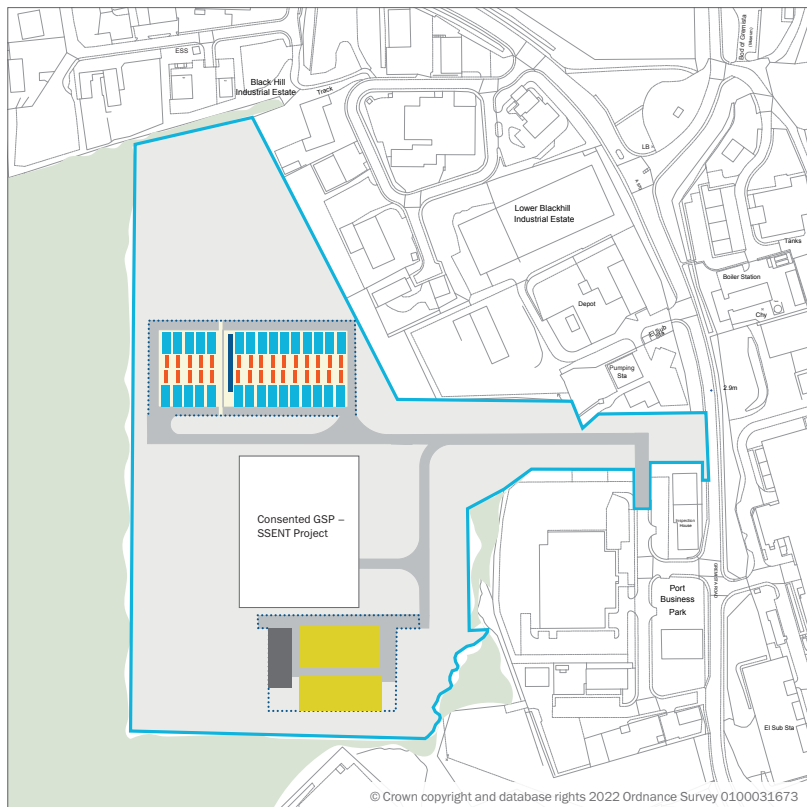
BESS at Kilathmoy Ireland

Battery Energy Storage System (BESS)

Batteries capture energy and store it for use later. Grid-forming converters combined with batteries always stay in ‘grid-forming’ mode which means they inherently resist changes in voltage and frequency on the electricity grid. This is another innovative way we can provide stability to the grid.

Where Will Lerwick Greener Grid Park Be Located?

Located next to the proposed Gremista Substation in Lerwick. SHEPD's ongoing requirements have informed our proposal.



LEGEND

— SITE BOUNDARY	■ CONTROL ROOM (2.6m high)
..... FENCE	■ SYNCHRONOUS COMPENSATORS (9.4m high)
■ BATTERY CONTAINERS (2.8m high)	■ SITE ACCESS
■ INVERTER SKID (3.7m high)	■ 33KV SWITCHGEAR (5m high)

- **Low impacts** cultural heritage and ecology
- On land **allocated for industrial use.**
- **Existing roads infrastructure** for access



For more information and to provide your comments
please go to our website: www.statkraft.co.uk/lerwick

Enabling a Cleaner, Lower Cost Energy Supply

If Lerwick was granted planning permission, we estimate the project will be operational in 2025

We are often asked by residents near our projects what benefits they can bring. We are the first to offer community benefit funds for grid stability projects.



“We are extremely grateful to Statkraft for the ongoing sponsorship of our Winter Trail Series which is an important part of our calendar.

“The sponsorship helps us promote running as a healthy and sociable pastime for a wide range of ages and levels across Caithness and Sutherland.”

*Donna Stewart, Vice-chair
of North Highland Harriers*

“ Windy Rig Wind Farm is another valuable contract for GTR. We are just one of several local businesses who are directly benefiting from the many wind farm developments within this area. This can only be a good thing for both local businesses and the local economy especially during the current pandemic.”

Tanya Russell, Director, GTR Contracts Ltd

“I very much welcome the benefits that the project will bring to the local community, and I also welcome the community benefit initiative that you have mentioned. This project and the significant investment in the local economy will bring benefits for local supply chains while also helping put the region at the forefront of our continuing journey to put renewable energy at the centre of our journey to net zero.”

Michael Matheson, Cabinet Secretary for Net Zero, Energy & Transport at launch of Keith Greener Grid Park, March 2022.



Community Benefits

We look forward to engaging with the communities to find out different ways we can bring positive benefits to the local area.



Investment from wind farm projects are helping young entrepreneurs achieve their business goals. Northcoast Watersports were granted £5,000 from Caithness Business Fund (Baillie Wind Farm) that enabled them to buy essential equipment to help get their, now very popular, business started.

Community Benefit Fund

We are committed to setting up a Community Benefit Fund of £20,000 per annum. Our community benefit is the **first of its kind** for grid projects.

Biodiversity Enhancements

Statkraft looks to actively improve the environment around our projects and will consult to find enhancements suited to the Shetland climate to improve habitat and biodiversity.

Local Supply Chain

We work with local business groups to increase awareness of opportunities to get involved in the construction and operation of our projects.

Over £1.6million was invested in the local supply chain at our Keith Greener Grid Park in Moray.

Visit our website to find out how to register interest.



OUR COMMITMENT

Leave the environment
in a better state
than it was before
we arrived



Thank you

Your views are important to us

There will be an opportunity to formally comment on the application when a proposal is submitted. All of the information will be available to view on the consenting authority's and our project website at the time of submission.

We are committed to engaging with the local community and would like to keep you informed. Contact us with your questions, comments or to subscribe for project updates.



Statkraft Open Day at Keith Greener Grid Park

**We would like to keep you updated
as our plans progress:**



**Please return the freepost
reply card provided.**



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www.statkraft.co.uk/lerwick



**Phone the project hotline:
0800 772 0668**



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For more information about
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