

KEITH GREENER GRID PARK – ENERGY STORAGE

PUBLIC EXHIBITION

November 2022



Baillie Wind Farm, Thurso, 21 turbines, 110m tip height

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**We are keen to show you our plans,
listen to your views and outline the next
steps of the Proposed Development.**
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About Statkraft

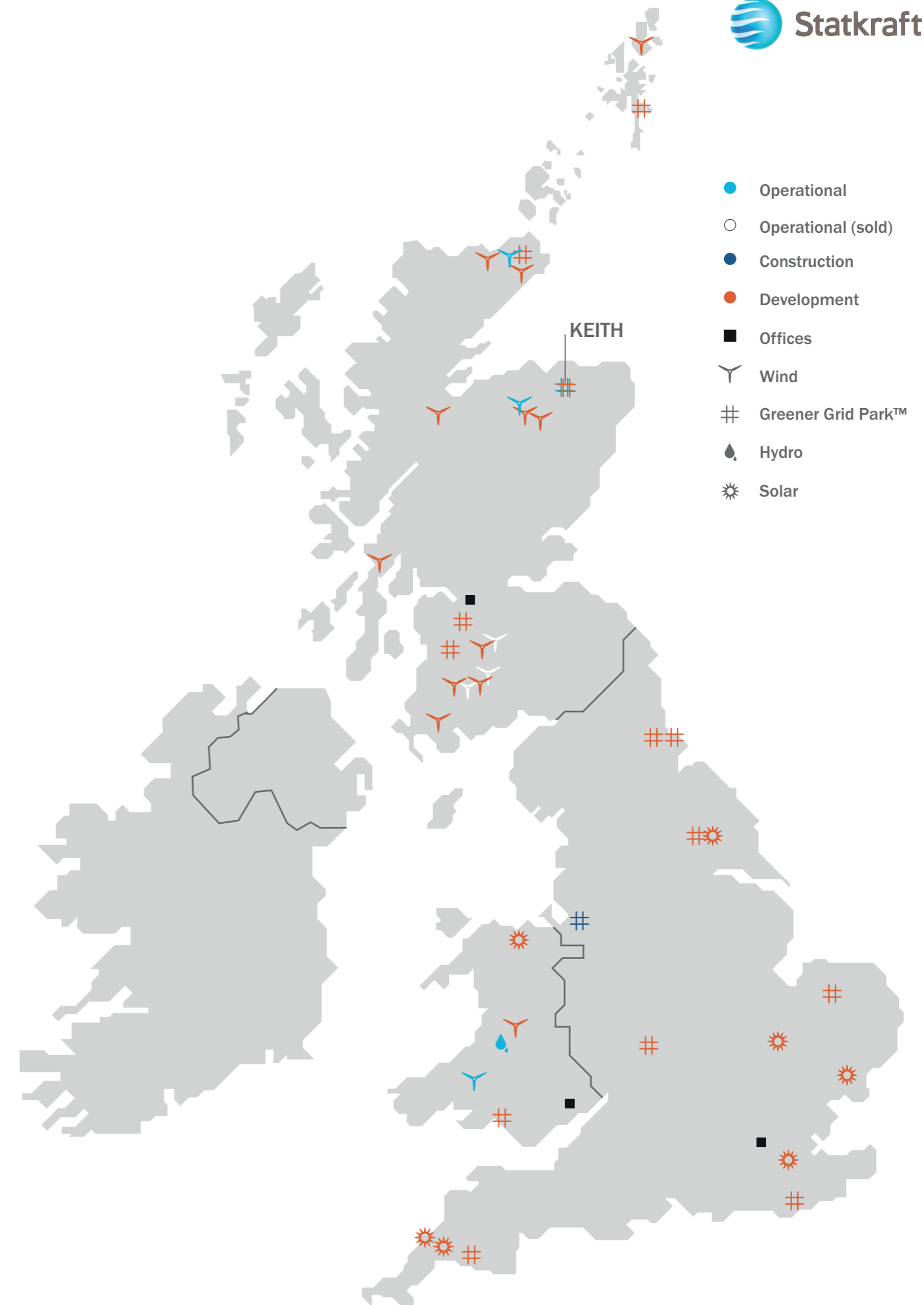
- Operating in the UK since 2006
- Offices across the UK
- Development pipeline includes wind, solar and grid stability services
- Distributed over £2 million to communities near operating renewables projects
- The largest generator of renewable energy in Europe
- A state owned utility with origins in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



20 British utility-scale solar farms

Statkraft in the UK

- Offices in London, Glasgow and Cardiff
- Operational portfolio includes one Greener Grid Park, five wind farms and one hydro plant
- Delivering grid stability services for National Grid in Moray and Liverpool 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



Greener Grid Parks are facilities comprised of zero carbon technologies which stabilise the grid, allowing more renewable energy to be transmitted through the network. They are not a wind farm or solar farm, but include equipment to import, store and export energy for use at a later date.

This is provided by one or both of the following innovative technologies.



Greener Grid Park at Keith

Synchronous Compensator

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



BESS at Kilathmoy, Ireland

Battery Energy Storage System (BESS)

Batteries capture energy and store it for use later to keep supply and demand balanced. This is another innovative way we can provide stability to the grid.

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

Why do we need Greener Grid Parks?

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

- As we move towards a zero carbon world we need to keep the power network stable as gas and coal units close.
- National Grid has had to pause renewables and run gas power stations – even when there is enough renewable energy to meet demand.
- National Grid pay to switch on fossil fuel powered plants and pay constraint payments – this has a cost to the environment and consumer.
- Greener Grid Parks remove this need by providing zero carbon stability so we can utilise as much renewable energy as possible.



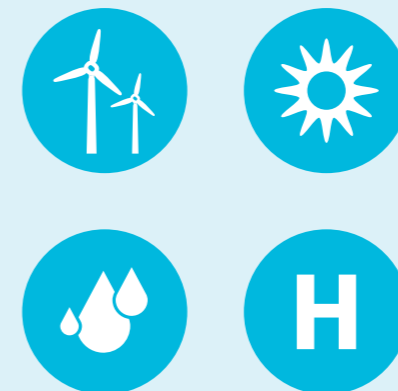
"Sometimes it's been necessary to shut down wind farms and switch on gas fired power plants - projects such as our Greener Grid Parks will make this a thing of the past."

Guy Nicholson –
Head of Grid Integration,
Statkraft UK.

UP TO
£128
MILLION

Saved (estimated by NGENSO) across contract period for Phase 1 Pathfinder. Saving consumers money; meeting local, regional and national targets.

(NGESO: National Grid Electricity Systems Operator)



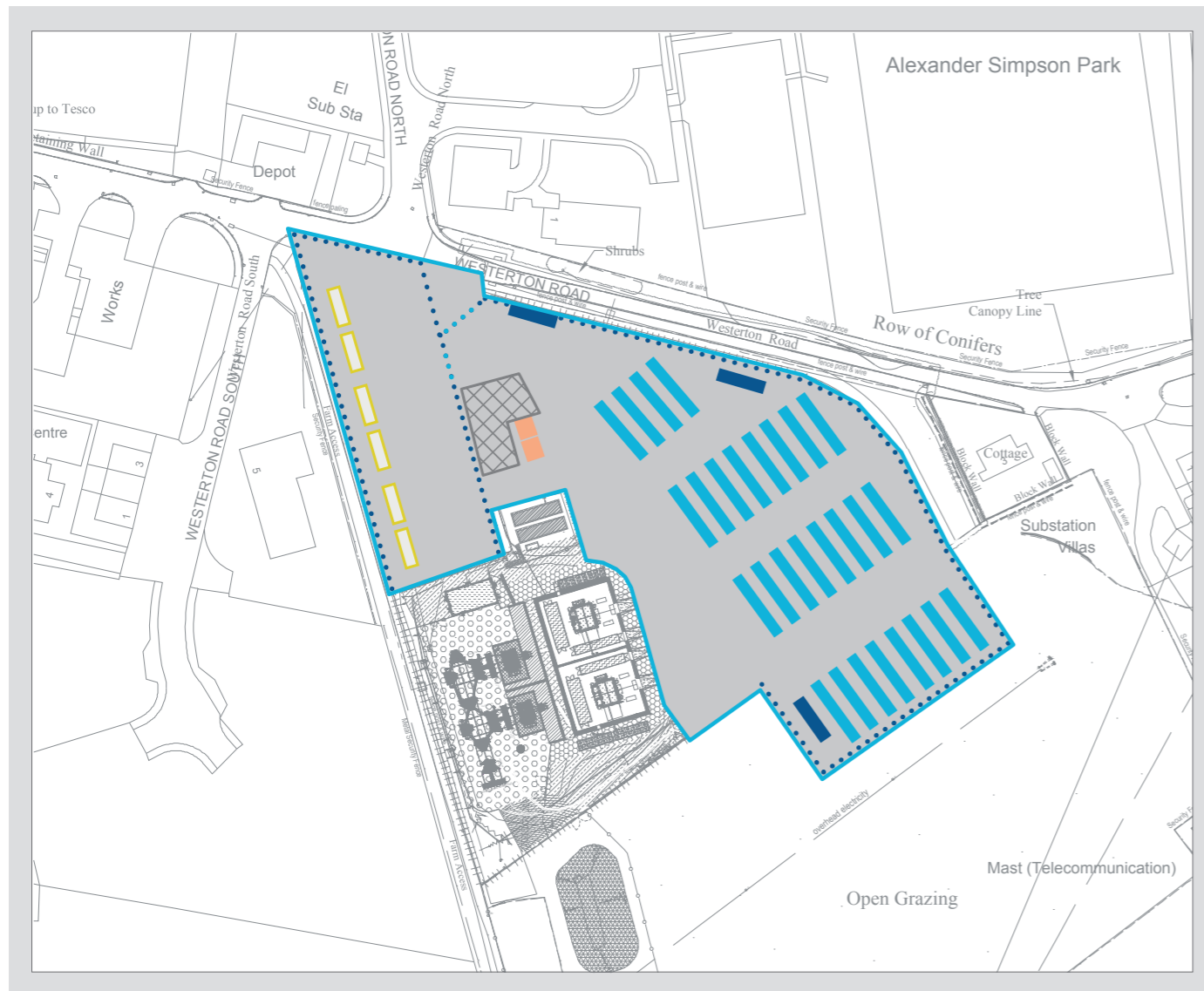
MORE RENEWABLES ON THE ELECTRICITY NETWORK

2 GREENER GRID PARKS across the UK



About Keith Greener Grid Park – Energy Storage

National Grid Electricity Systems Operator ongoing studies have informed our proposal.



LEGEND

- | | |
|-------------------------------|---|
| SITE BOUNDARY | TRANSFORMER (5m high) |
| FENCE | STORAGE CONTAINER (3.5m high) |
| GATE | SITE ACCESS |
| BATTERY CONTAINER (2.8m high) | Not Included In Current Planning Submission |
| CONTROL ROOM (2.6m high) | |



For more information and to provide your comments please go to our website:
www.statkraft.co.uk/keith-energy-storage

About Keith Greener Grid Park – Energy Storage

Keith is an excellent site location for a Battery Energy Storage System (BESS) because:

- It is within the existing Keith Greener Grid Park and next to Keith Substation meaning the **cable connection is short and less intrusive**
- It means **low impacts on flooding, cultural heritage and ecology**
- There is **existing roads infrastructure for access**
- Moray is an area of **high wind generation and export**
- **Keith is an excellent site** to continue contributing to the UK’s ambitions of reaching **net zero emissions by 2050**
- This BESS project will enhance the **vital work being done in the Keith Greener Grid Park**, by increasing the amount of renewable energy consumers can utilise

OUR COMMITMENT

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

Keith Greener Grid Park- Energy Storage: If planning permission is granted, we estimate the project will be operational by 2025.

“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.



Michael Matheson at the Opening of Keith Greener Grid Park

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

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

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 by planting wildflower meadows, hedgerows and trees. We look to improve habitats for a range of species where needed.

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.



MEMBER:



Next Steps

Your comments and feedback 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 websites of both the consenting authority and our project at the time of submission.

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



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



Please return the freepost reply card provided.



UKProjects@statkraft.com



[www.statkraft.co.uk/
keith-energy-storage](http://www.statkraft.co.uk/keith-energy-storage)



Phone the project hotline:
0800 772 0668

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www.statkraft.co.uk

For more information about
Keith Greener Grid Park –
Energy Storage

[www.statkraft.co.uk/
keith-energy-storage](http://www.statkraft.co.uk/keith-energy-storage)

