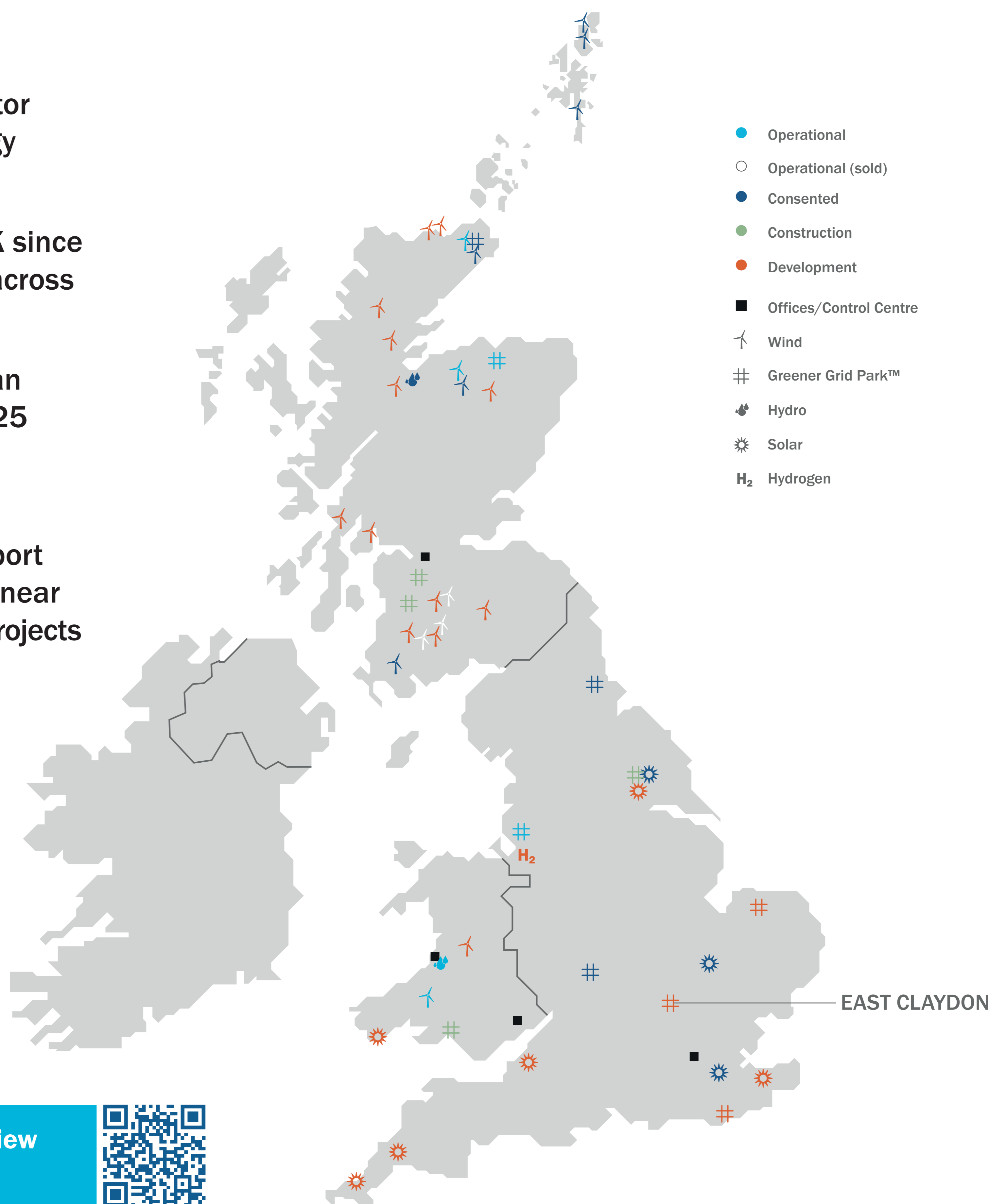


Welcome

Our team are here to discuss our plans, listen to your views and outline the next steps of our proposal for East Claydon Greener Grid Park.

About Statkraft

- The largest generator of renewable energy in Europe
- Operating in the UK since 2006 with offices across the UK
- Origins in Norwegian hydropower over 125 years ago
- Distributed over £4.5million to support local communities near renewable energy projects



Scan the QR code to view the project webpage



About Greener Grid Parks

Greener Grid Parks are a collection of buildings, containing 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 include equipment to import, store and export energy for use at a later date.

At East Claydon Greener Grid Park, this will be delivered using two types of technology.

Battery Energy Storage System, or BESS



Batteries capture energy and store it for use later to keep supply and demand balanced.

This is an innovative way we can provide stability to the grid. BESS increases the amount of renewable energy consumers can utilise by storing it when demand is low and releasing it when needed the most.

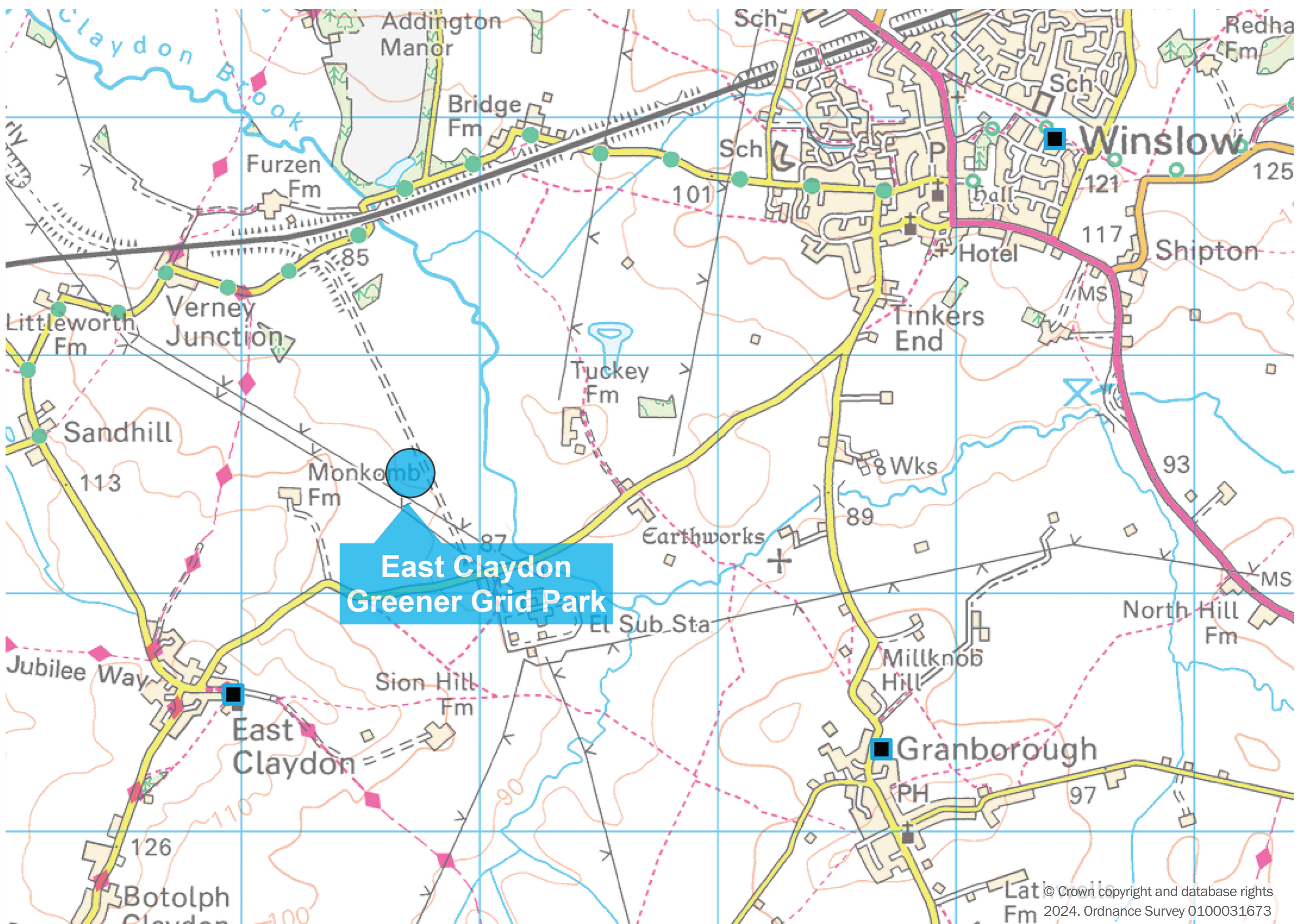
Synchronous Compensators



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

About East Claydon Greener Grid Park

Proposed site location



“ 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

“ We hugely value the role batteries play today, helping to secure and balance the system in real time. There is a growing role for batteries in the future, with our forecasts seeing a need for four or five times the capacity we have today by 2030. ”

National Energy System Operator (NESO) October 2024

About East Claydon Greener Grid Park

Why here?

Specific sites are identified through a careful assessment of the site and the area. Statkraft consult with technical specialists about subjects such as landscape, ecology, safety and flooding.

Close proximity to the substation avoids lengthy transmission cables, maximises the grid stabilisation function of the Greener Grid Park and ensures an efficient connection to the grid whilst minimising environmental disturbance and cost.

Statkraft ensures its Greener Grid Parks are located at strategically important locations by consulting with NESO (National Energy System Operator) and examining other data to establish where there is likely to be a need for storage and grid stabilisation. This can be influenced by a number of factors including:

- Where energy is being generated and where there is the biggest demand for energy across Great Britain.
- Timescales for when the project will be able to connect into the electricity grid.
- Whether substations have the physical space to accommodate new connections.

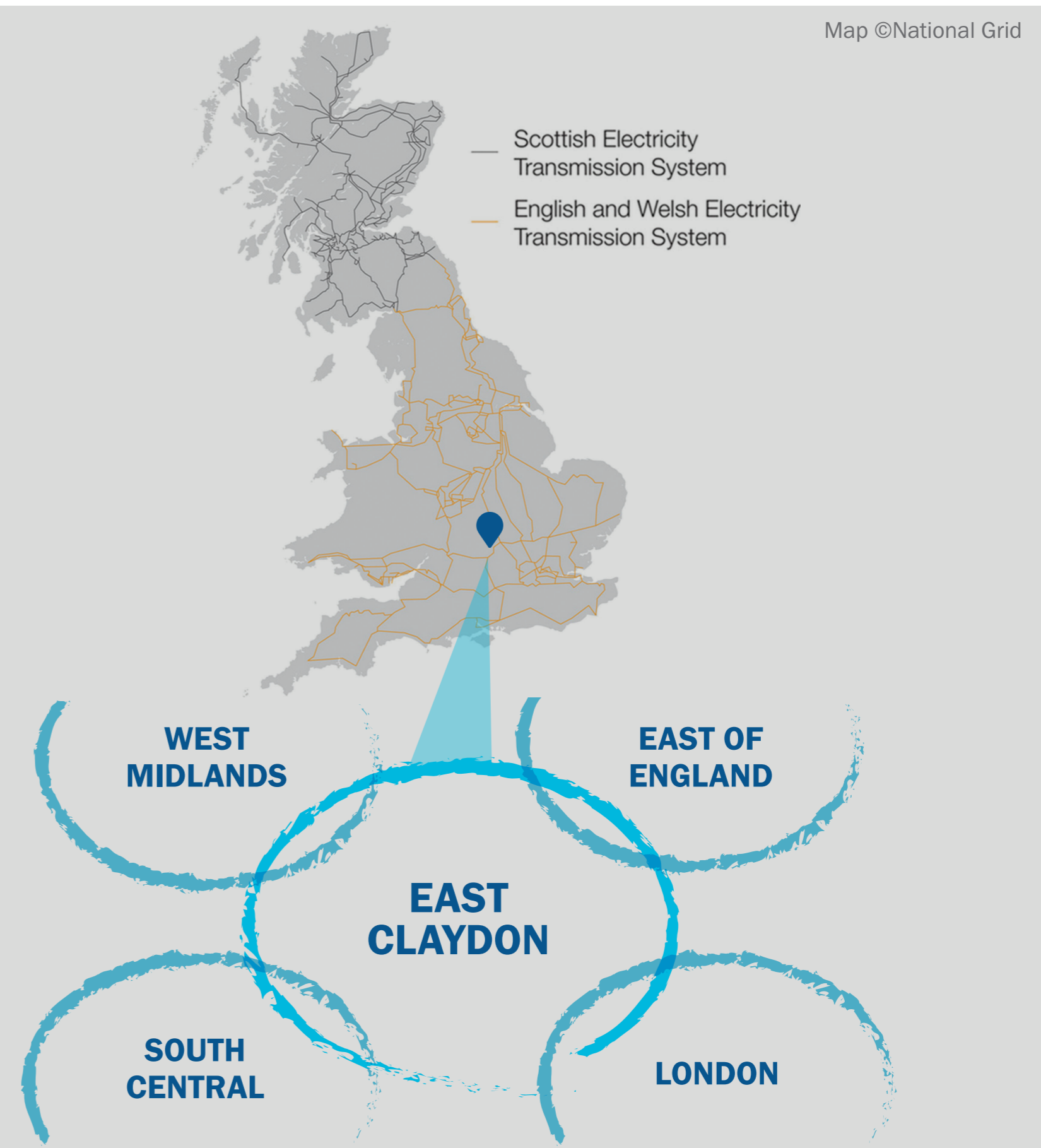
We found that this proposed location was the most suitable and available site that could be used for the Greener Grid Park, located close to East Claydon substation.

East Claydon substation is located on the border of two regions that are very busy and have large variances in demand between daytime and night time. This varying demand impacts the voltage on the grid which has to stay within certain parameters. The Grid needs reactive power to help to manage this.

This proposal would react to demand to help manage voltage issues. Our technologies will export reactive power in periods of high demand to support low network voltages; and import reactive power during low demand periods to manage high voltages.

This will:

- ✓ Reduce system operation costs, impacting consumer's bills
- ✓ Reduce the need to operate fossil fuelled gas power stations to reduce CO2 emissions



Proposed site layout

Annotated site plan

Most buildings in the east of the disused railway site, where they're least visible.

Significant drainage measures have been incorporated to prevent flooding.

Opportunities to enhance biodiversity around the site by up to 63%.



Planning considerations for East Claydon Greener Grid Park

EIA Environmental Impact Assessment

The process of gathering good environmental data on a site is vital to designing a Greener Grid Park.

Environmental Impact Assessment Report

As an additional measure Statkraft have decided to prepare an Environmental Impact Assessment Report (EIAR), which will be publicly available. As part of designing the project, advice and guidance has been sought from a range of regulatory and voluntary bodies including, but not limited to, Natural England, the Environment Agency and Network Rail.

Our EIA is being carried out by specialist environmental and technical consultants.

Our planning application will cover a range of areas including:

- Landscape and Visual Impact
- Ecology
- Climate Change
- Noise
- Traffic and Transport
- Archaeology

Ecology

Our plans will enhance biodiversity and provide new habitats for wildlife. We are committed to supporting a range of species through onsite and offsite measures.

We are planning to deliver 63% biodiversity net gain for habitats and 10% net gain for hedgerows, enhancing ecology across the site.

Screening

As part of our plans, we will be planting over 150 new trees which will be in addition to the 560 metres of existing hedgerow. The trees will mostly be 3-3.5m, when planted and should reach 7m after 10 years.

Encouraging Pollinators

Over 9 hectares of wildflowers, enhancing species diversity and providing habitat for birds and butterflies.

Noise

We have appointed expert consultants to conduct detailed noise assessments for the site. This involves recording the existing background noise at seven key locations on and around the site over a period of several weeks, as agreed with Buckinghamshire Council.

During development our focus is on minimising, then mitigating, noise impact. There are several ways we can achieve this during the design phase, such as site layout, options for physical barriers and selection of the most appropriate technology.

Archaeology

Archaeologists will carry out detailed studies prior to decision of the application, and adjustments could be made to the project layout if needed.

63% We expect to deliver a 63% increase in biodiversity through our project, providing ecological enhancements through planting and creating new habitats.

Planning considerations for East Claydon Greener Grid Park – What will the project look like?

As developers, our challenge is to find the right balance between maximising the storage and stability services of a site and designing the proposal to relate to the existing landscape, including other developments.

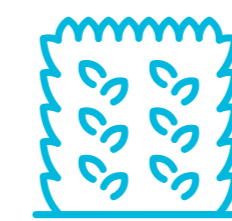
Measures to minimise visual impact can include:



Locating the largest buildings to the east of the disused railway.



Specifying colours for the buildings and containers.



Screening the site with native trees, shrubs and hedgerow planting.

2D and 3D images showing how the project could look from a variety of locations are available to view at our drop in exhibition and on our website.

A full landscape and visual assessment of our proposal will be publicly available when an application is submitted.

Cumulative impact

From consultation with Buckinghamshire Council's Planning Department, desk surveys and conversation with the Parish Council we are aware of a number of other developments in the area.

Should the project get consent, we will look to work with other developers to collaborate on common issues such as visual impact and construction transport.



Construction, Transport and Access

We are currently completing a detailed assessment of the potential construction and operational traffic routes and access points. Our focus is on minimising the impacts on the local road network, particularly during the 24 month construction period.

As part of the planning application, we will prepare a Construction and Traffic Management Plan, which will set out measures to minimise the construction impact on local communities. This will include a plan to manage deliveries to site, including a prescribed route which construction vehicles and deliveries must follow. We are keen to hear your views on the potential construction access route and how best to manage the traffic to the development.

Should the development be consented, the operational Greener Grid Park will attract very little traffic as it does not require a permanent on-site presence.

We appreciate that the construction period is disruptive for the local community. Measures available to reduce these impacts include:



Timing deliveries to avoid school and other periods of peak traffic.



Text message service to provide updates on abnormal loads/deliveries.



Community Liaison Group during construction period.



Community Liaison Group

Statkraft seeks to establish a Community Liaison Group (CLG) to facilitate dialogue between communities and the Project Team, for its construction sites. The CLG operates throughout the construction phase. The purpose is for Statkraft and its contractors to provide updates on construction, minimise disruption and enable community representatives to ask questions and raise any issues.



The CLG has been meeting since construction started and has been a valuable way for us to communicate with Statkraft. Their communication has been excellent in keeping local councils and the community informed at every stage of the development.



Bronya Emmison, Barmby Moor Parish Council

Community Benefits

We want to hear your ideas about how our project could help deliver positive benefits to the local community.

Community Benefit Fund



A Community Benefit Fund delivering £20,000 each year.

This Fund will support local green and environmental initiatives from the start of construction and continue for the life of the Greener Grid Park. For example: at our Greener Grid Park in Scotland, one such project is a local men's health and wellbeing charity, the Keith and District Men's Shed, where the fund has helped them buy a new solar panel and battery storage.

Local Suppliers



We encourage local suppliers to get involved in the construction of our projects.

By working with local business groups such as the Thames Valley Chamber of Commerce and Buckinghamshire Business First, we will integrate the existing local economy into our project. Taking this approach saw over £1.6 million invested in our Keith Greener Grid Park.

Thank you for visiting

Your views are important to us.

We will keep you informed on our planning application through regular updates, including on our project website.

Please note that any comments made to this prospective application are to the applicant and not to the Buckinghamshire Council. Once the planning application has been made, you will have the opportunity to make a representation to the council at that time.

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.

Indicative timeline



Freepost Statkraft
(no stamp required)



Visit the project website
www.statkraft.co.uk/east-claydon



UKProjects@statkraft.com



Phone the project hotline:
0800 772 0668



Scan the QR code to view the project webpage