

Welcome

About this exhibition

Thanks for visiting our public exhibition, providing information on proposals for a Battery Energy Storage System (BESS) on a site in Carrington.

Your views matter to us and we hope the information presented here encourages you to share them with members of our project team. This will help us understand if you are supportive of the project, or if you have issues or concerns we can address as the project progresses.

Please take as much time as you like to view the information boards on display today. Members of our project team are on hand to assist with any inquiries you may have. If you have any other queries after attending this event, please email them to alan.greenwood@sse.com or call **Alan Greenwood** on **07342 142714**.

We look forward to hearing from you.





Who we are

SSE can trace its heritage to the 1940s when it first brought green power to the Scottish Highlands through its network of hydro dams – which still proudly serve today.

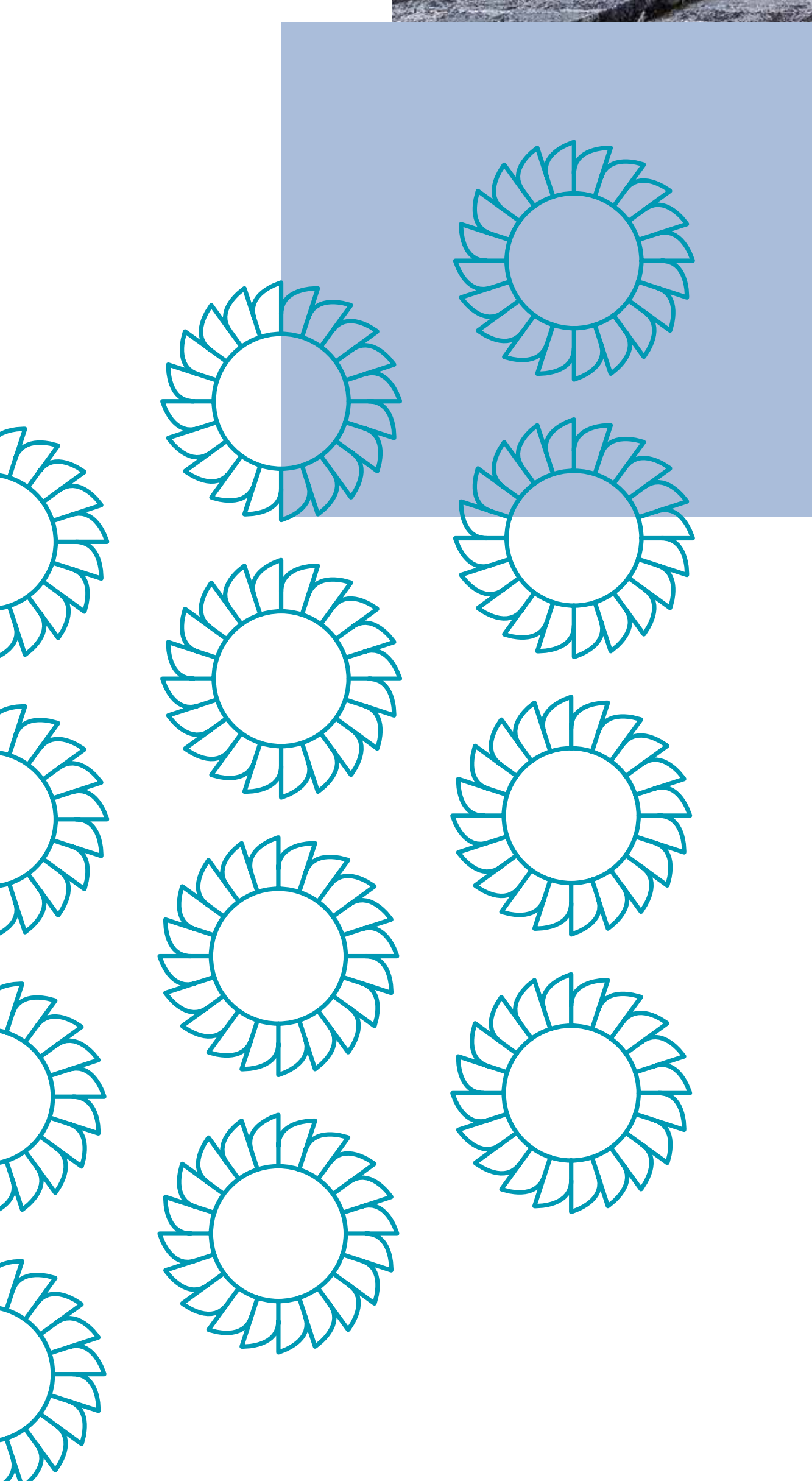
Harnessing the power of nature is in our DNA as an energy company. SSE Renewables is investing £4m a day to build the green technologies we need. Solar and Battery Storage complement other technologies in our portfolio and gives us and the country the diversity of generation required to help us get to net zero.

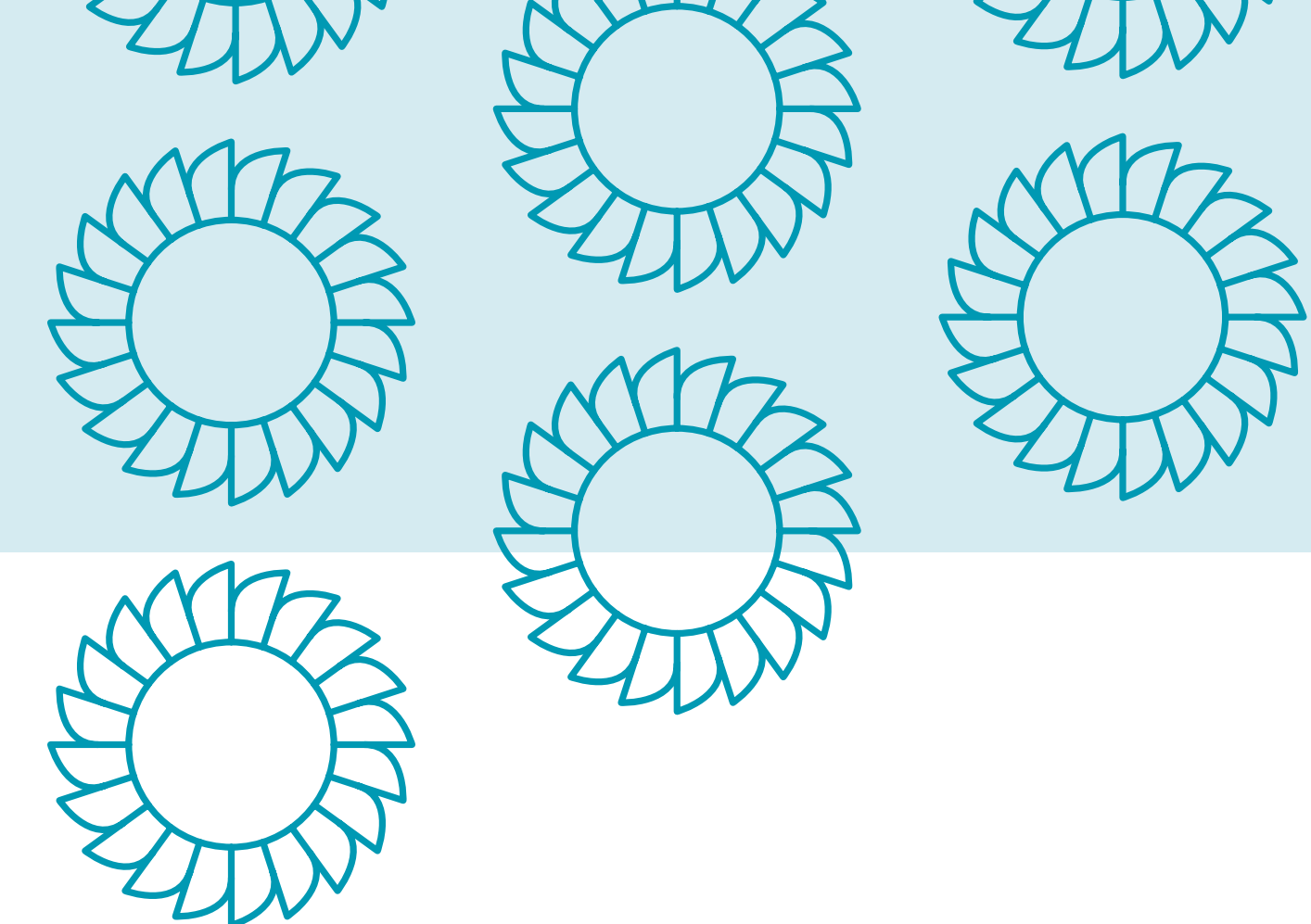
We work with communities where we are developing sites, addressing concerns as they arise, and always giving something back through our community benefit programme.

SSE is committed to developing, building, operating and investing in the electricity infrastructure needed in the transition to net zero. This includes onshore and offshore wind, hydro, electricity transmission and distribution networks, flexible power stations, carbon capture, hydrogen storage and now solar and battery storage.

SSE is a team of more than 12,000 employees. We champion a fair and just transition to ensure everyone gets the chance to benefit from the opportunities of net zero.

If you want to learn more about our other projects, please see:
www.sserenewables.com/solar-and-battery





Why do we need battery energy storage systems?

Battery storage increases the efficiency and usability of renewable energy sources like solar and wind power. Battery Energy Storage Systems (BESS) allow us to store surplus energy, using lithium-ion batteries and release that power into the grid when conditions allow.

Clean

Addressing climate change, by reducing the amount of carbon we release into the atmosphere, is one of the biggest challenges facing society today. The UK is well-placed to embrace the benefits that renewable energy can bring to meet the challenge. BESS developments, like Daines, help to cut our reliance on fossil fuels.

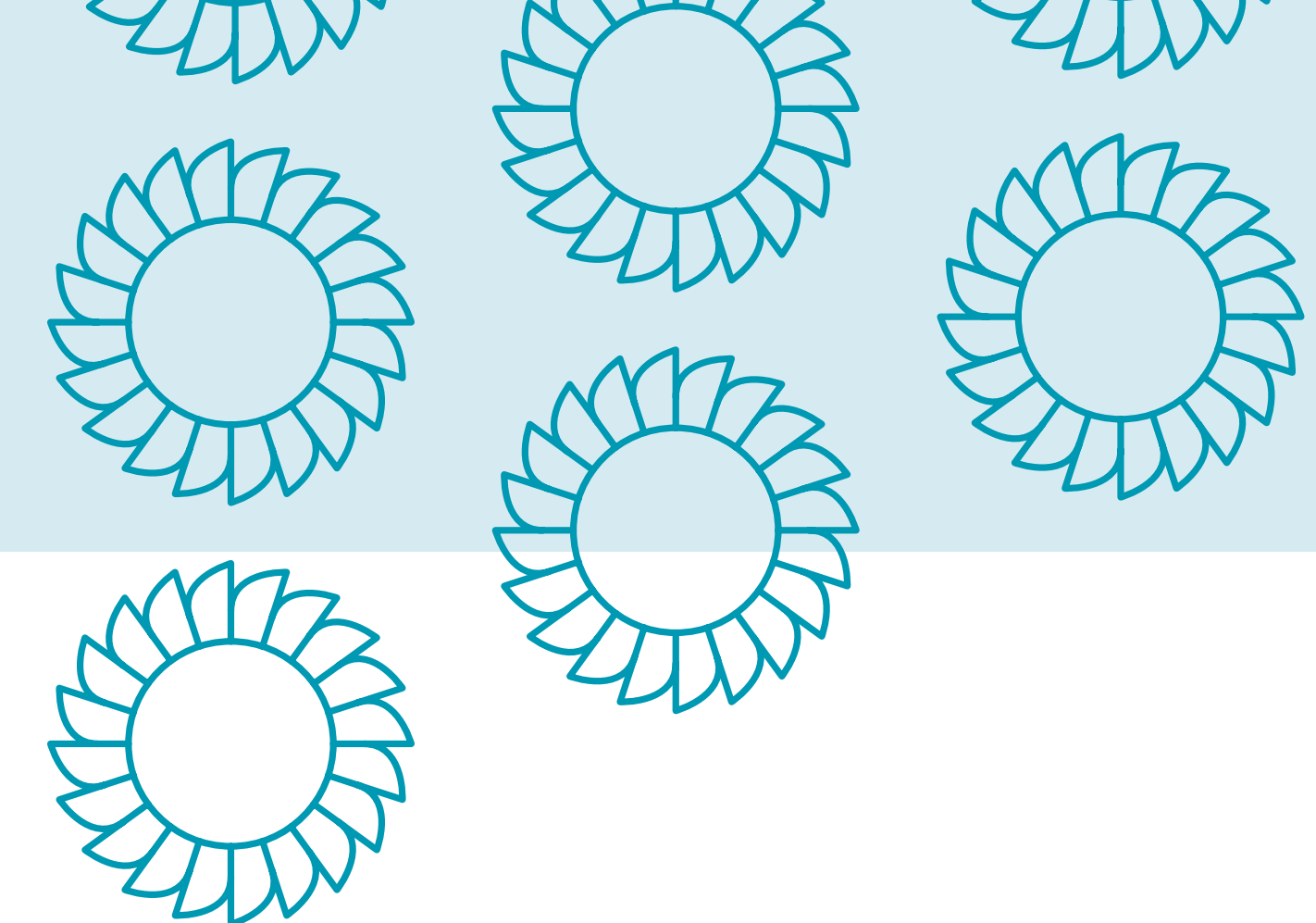
Secure

The UK imports a lot of the energy we use. In the first quarter of 2024, more than 44 per cent of the country's primary energy was imported, according to the Department of Energy Security and Net Zero. Buying in our energy means volatile prices and makes planning for the future more difficult. UK-based battery storage creates a more secure energy supply.

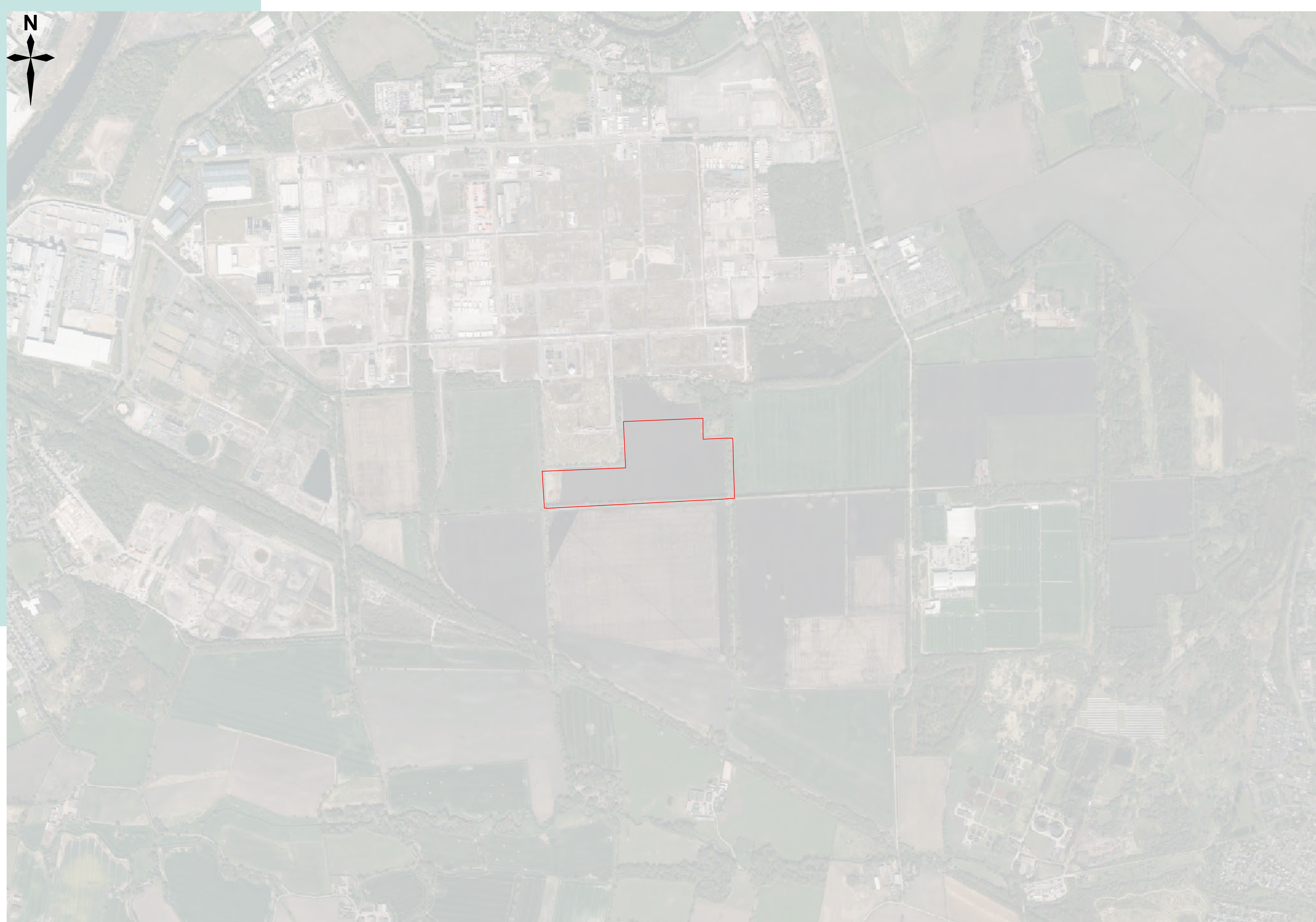
Efficient

Renewable energies, like solar and wind, are becoming an increasingly important part of our country's energy mix. Incorporating BESS systems ensures that the energy we generate from them can be captured and used when the sun is not shining and the wind is not blowing.





Why are we looking at this site?



Red line shows boundary of proposed Daines BESS site.

Where we build our renewable energy projects depends on a combination of factors. These are some of our main considerations when choosing a site:

Connection Capacity

National Grid tell us where there are, or will be, substations with capacity to receive additional renewable energy.

Identifying Land

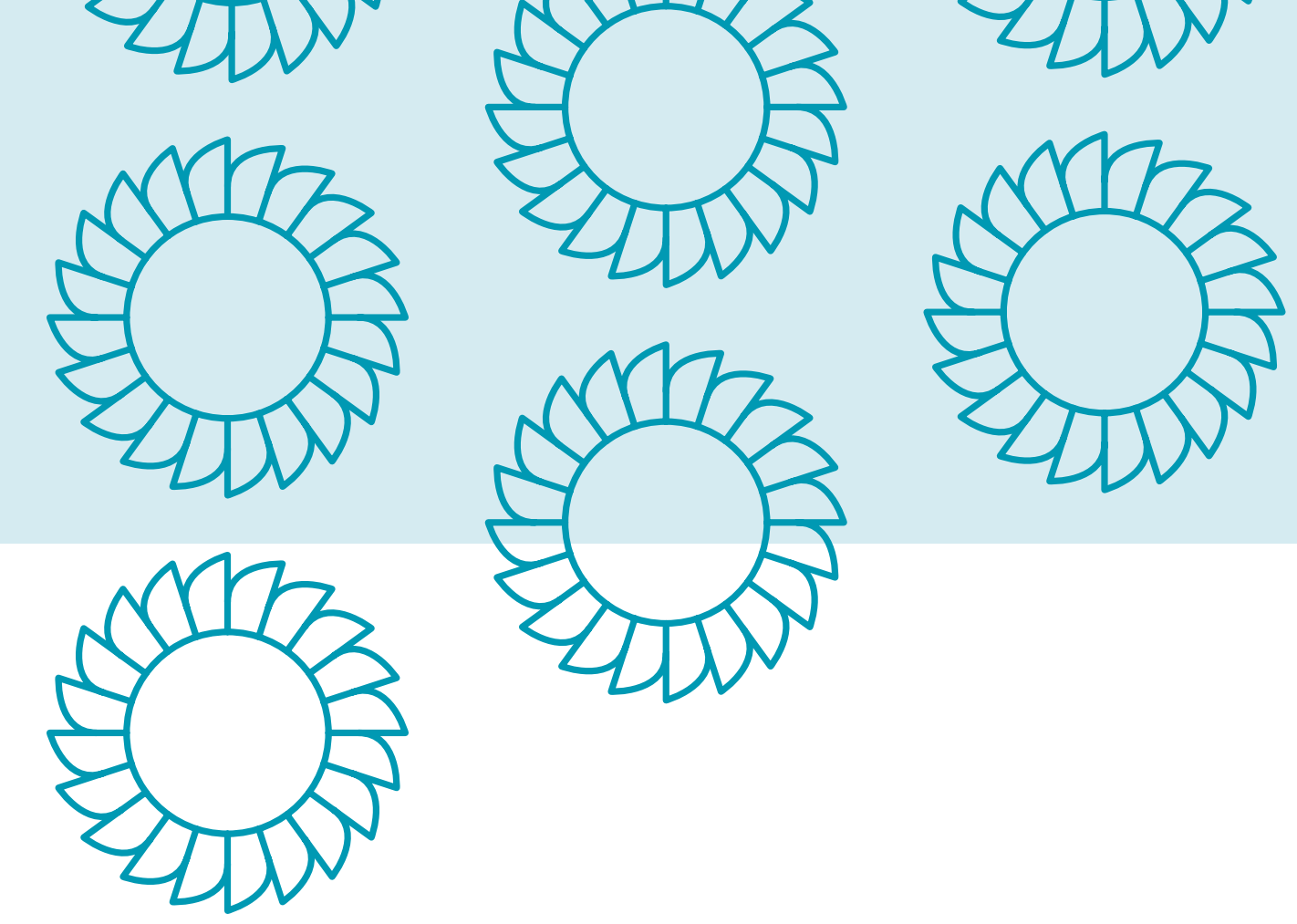
The exact location we select is defined by the area's geography and availability of land for lease or purchase.

Land Quality

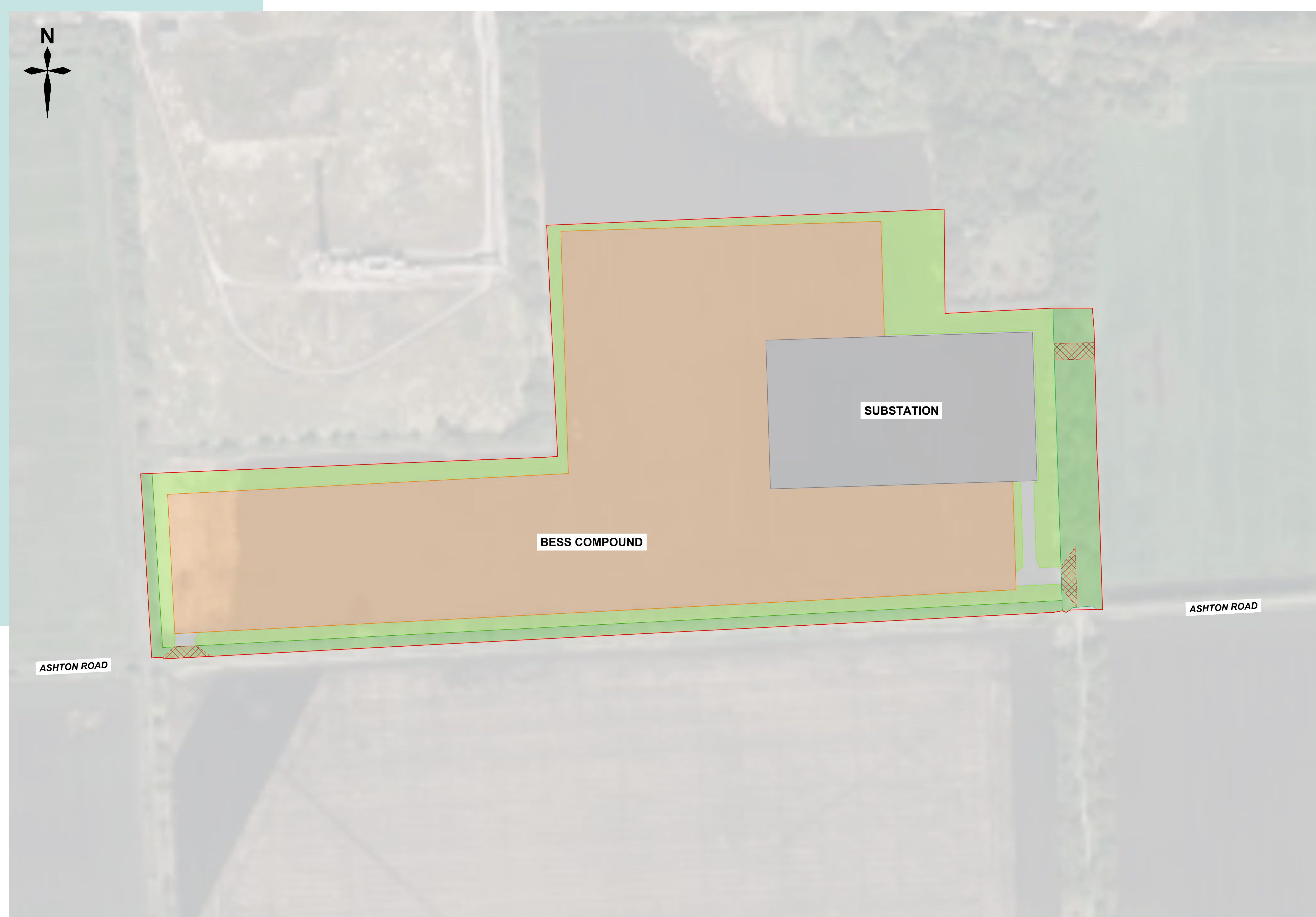
The quality of agricultural land is graded. Where we have an option, we will choose the lowest grade of land that is available to us. This is because we appreciate that as well as net zero being an important issue for the country, many people are also concerned that we need more national food security.

Local Voices

Feedback from our consultations influences the land on which we propose to construct and where we propose to instal solar panels, batteries and associated infrastructure.



Benefits of the Daines site



Proposed land allocation.

There are a number of reasons why our preferred site for Daines is favourable for a BESS development. These include:

Local Economic Development

The proposed site is located in an area marked for development as part of the Carrington Masterplan, a long-term investment initiative to bring employment and investment to the Carrington area. It is adjacent to operating industrial units to the north and not close to residences.

Energy infrastructure

The proposed site is located near to the existing transmission grid. This means any connection can be made quickly, safely and efficiently.

Close to population centres

The proposed Daines site is just 11 kilometres from Manchester City Centre, one of the largest energy use hubs in the United Kingdom. Our BESS would be well-placed to meet energy demand from the city centre.

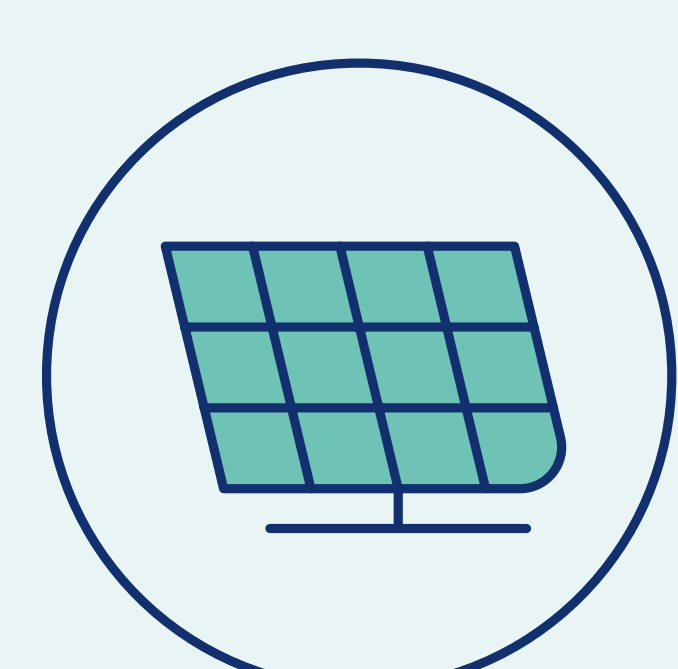
Limited visual impact

The discrete location of the Daines site means it will not be visible from residences or public spaces in the local area. We will plant natural screening to ensure visibility of the site is restricted from nearby lanes and walking paths.

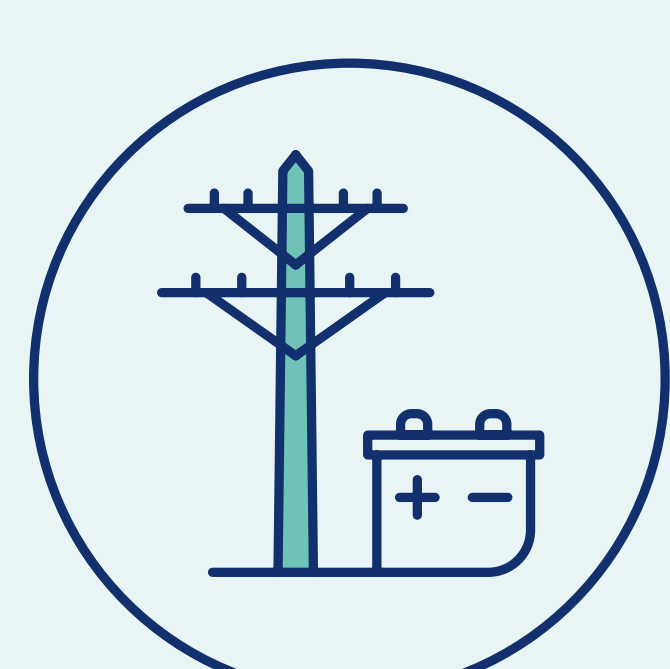
Habitat enhancement

The character of the natural environment at the Daines site makes it a good location to undertake government mandated measures for Biodiversity Net Gain. The proposed site will allow considerable scope to be developed in a way that promotes ecological enhancement.

What we're proposing to build at Daines



2 hour
storage capacity



600MW
of installed capacity



836,000
homes that could be powered for the above duration

The proposed Daines Bess would be a 600-MegaWatt (MW) Battery Energy Storage System, consisting of Lithium-Ion units with a two-hour storage capacity. The number of battery units will depend on the kind of technology used by our chosen contractor.

A fully operational BESS of this size would be able to power more than 830,000 homes for the duration of the battery storage.

The site will also encompass pieces of infrastructure, such as three super grid transformers, a 33KiloVolt Switchgear and power conversion units.

The site will be contained by perimeter fencing, which will be surrounded by natural screening in the forms of new-planted trees, hedges and shrubs.

All BESS developments must meet Government guidelines to deliver a Biodiversity Net Gain of at least 10 per cent. This means a development will enhance the natural habitat in comparison to what was in place before development.

It makes sure that habitats for wildlife are left in a measurably better state than they were before the development.



Site Layout



Indicative layout

A number of factors must be considered when composing a BESS site layout.

Safety

Safety is the founding principle of any SSE Renewables development. If it's not safe, we don't do it. This is reflected in the indicative layout for Daines BESS. The battery units are configured in a way that ensures they can be isolated in the event of overheating and that there is easy access, if required, to carry out repair works.

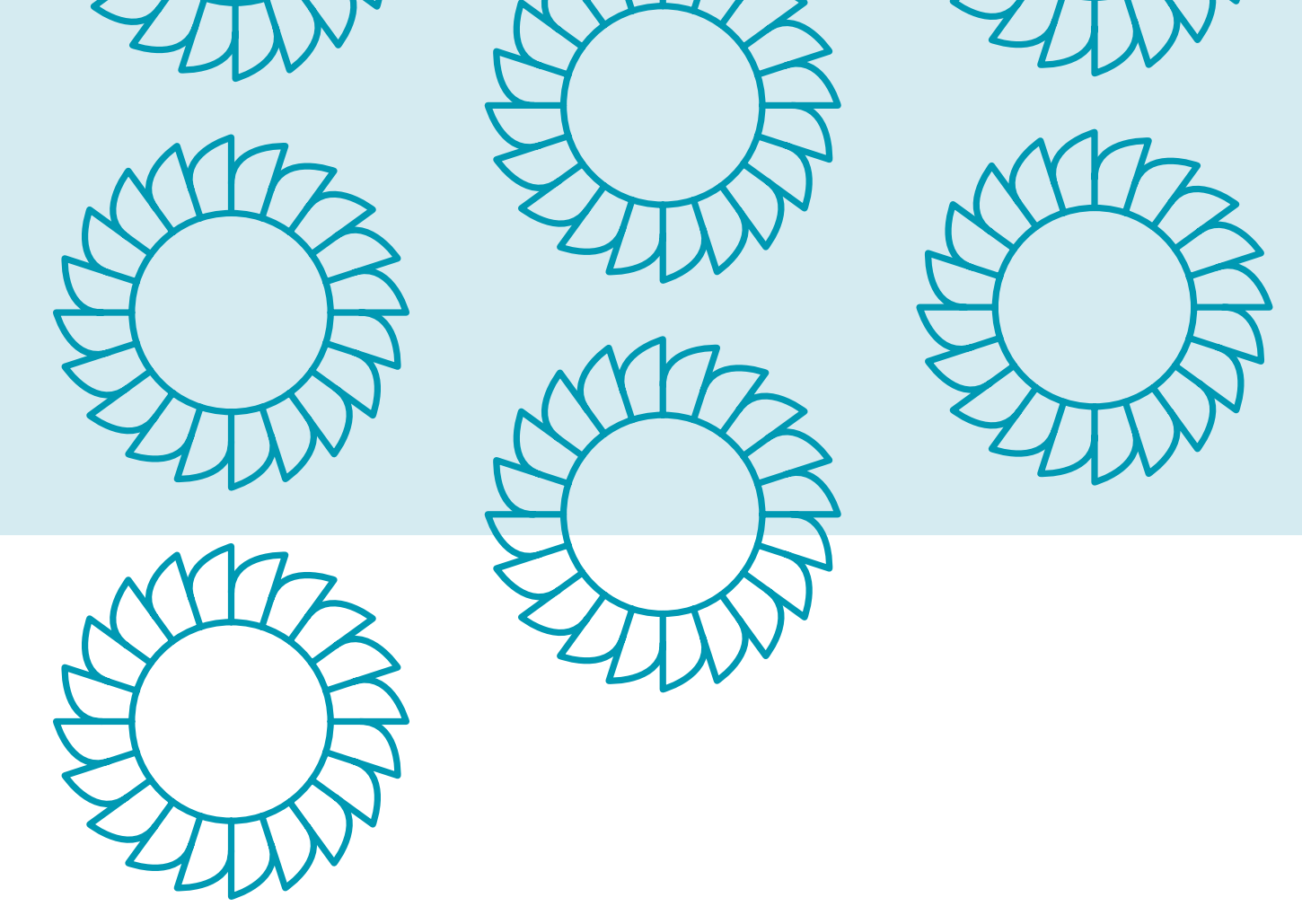
Habitat

There is an obligation to ensure the Daines BESS delivers at least a Biodiversity Net Gain of at least 10 per cent. Ensuring we meet – and hopefully surpass – this obligation is a key consideration in any layout (see Environmental Considerations).

Visual impacts

The Daines BESS site will be screened by foliage to ensure any visual impacts are mitigated as effectively as possible. This natural screening will take the form of new plantings of trees, hedges and shrubs.





Assessments works

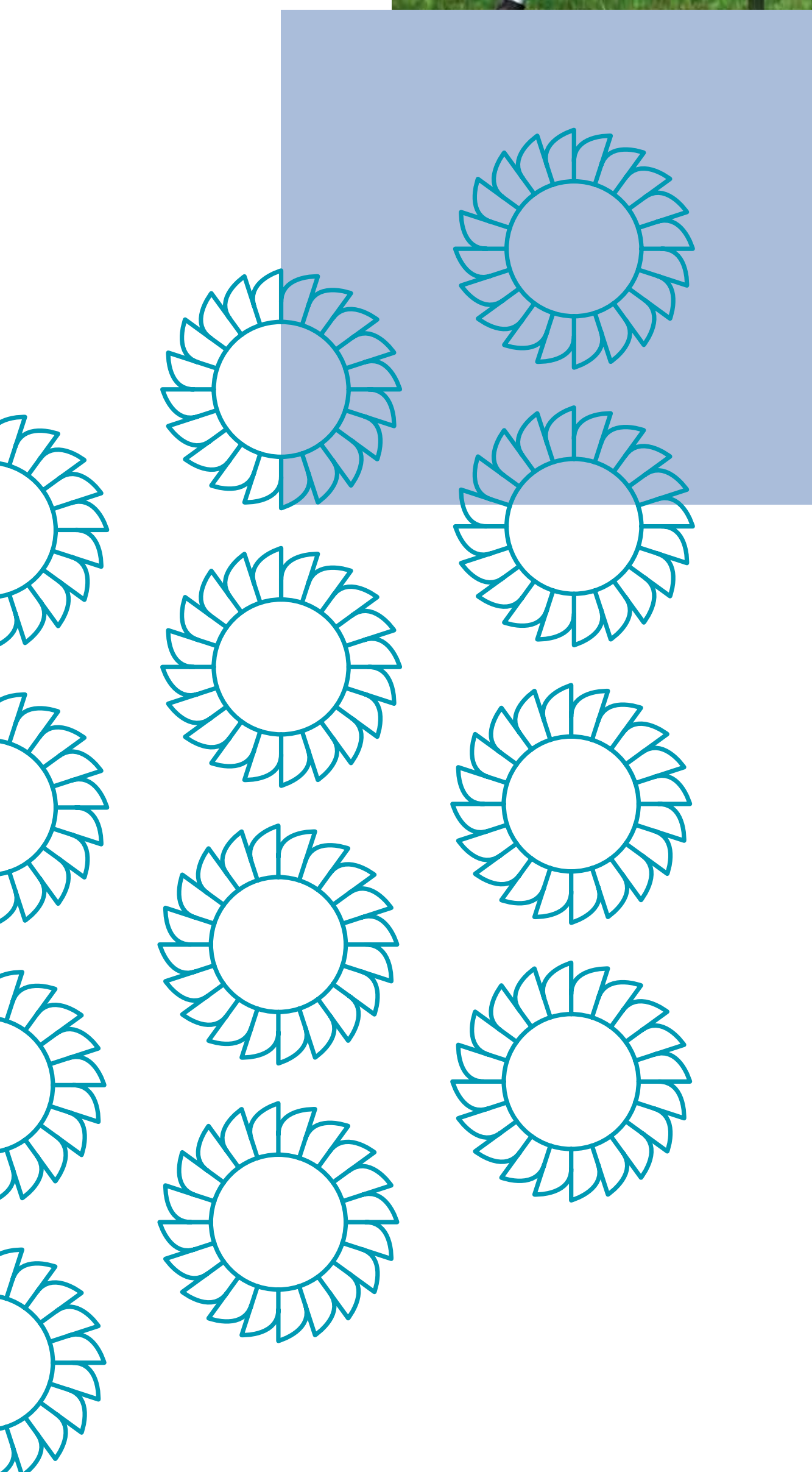
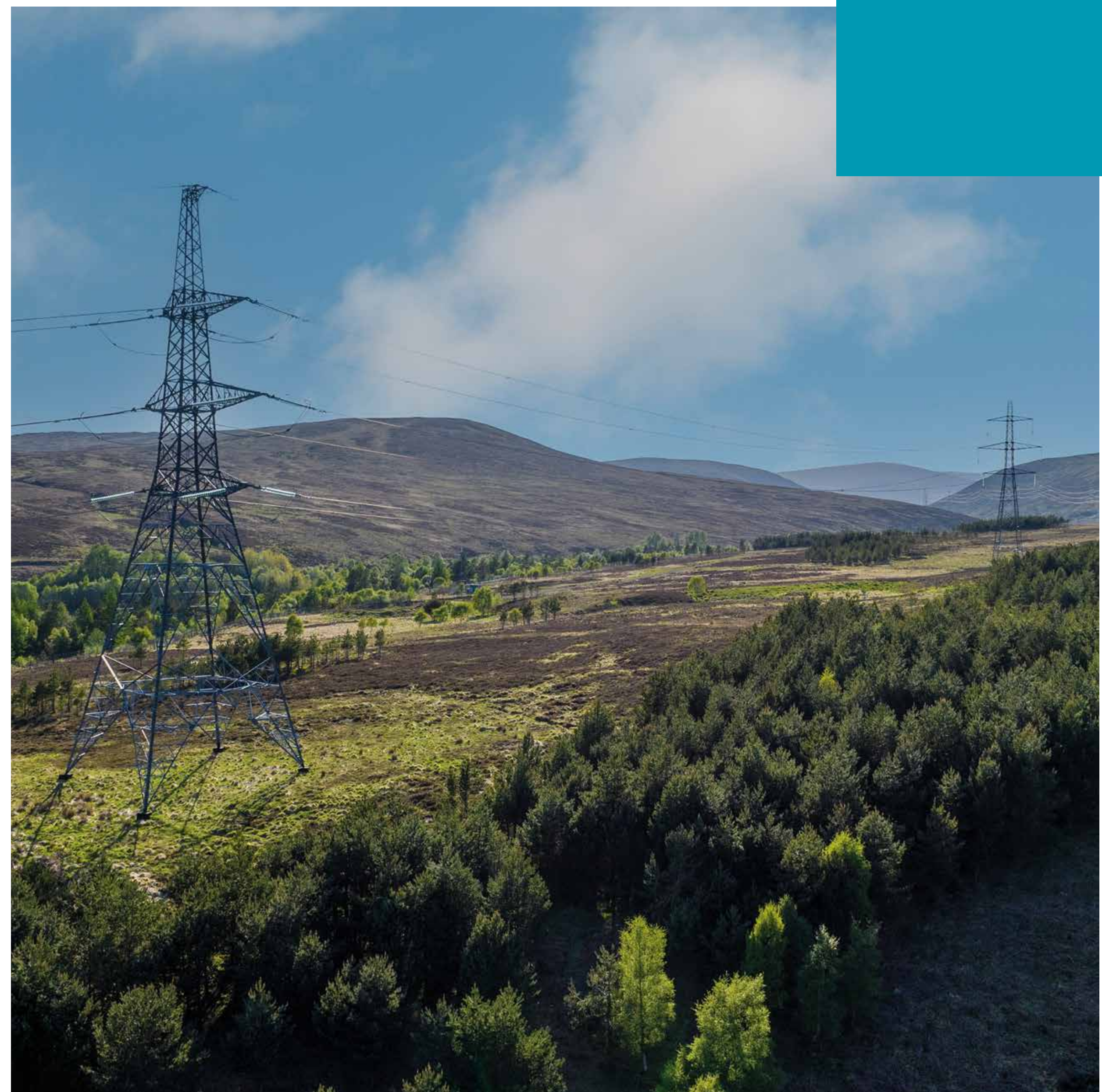
Independent consultants will be retained to carry out technical assessments and advise on environmental issues associated with the proposed development.

These experts will work with us during the design process; carry out environmental impact assessments and prepare documentation for the EIA report.

Each subject requiring assessment under EIA Regulations will be presented as a separate chapter in the main body of the EIA report, or included as a technical appendix.

The core environmental study areas are:

- Ecology, Biodiversity and Nature Conservation
- Landscape
- Ornithology
- Hydrology, Geology and Hydrogeology
- Cultural Heritage
- Traffic, Access and Transport
- Noise and Vibration
- Aviation
- Carbon Assessment
- Socio Economics



Environmental considerations

At SSE, we aim to tackle the climate and biodiversity crises simultaneously. While accelerating towards Net Zero by developing and maintaining 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.

What is Biodiversity Net Gain?

To achieve this, we have developed our approach to Biodiversity Net Gain (BNG) which brings the natural environment into sharp focus on all our projects. We aim to deliver benefits for biodiversity that are climate resilient and where possible restore and enhance our natural carbon sinks.

Daines BESS will be subject to this rigorous approach to meet mandatory biodiversity targets but also provide additional ecosystem benefits that will contribute positively to the local area.

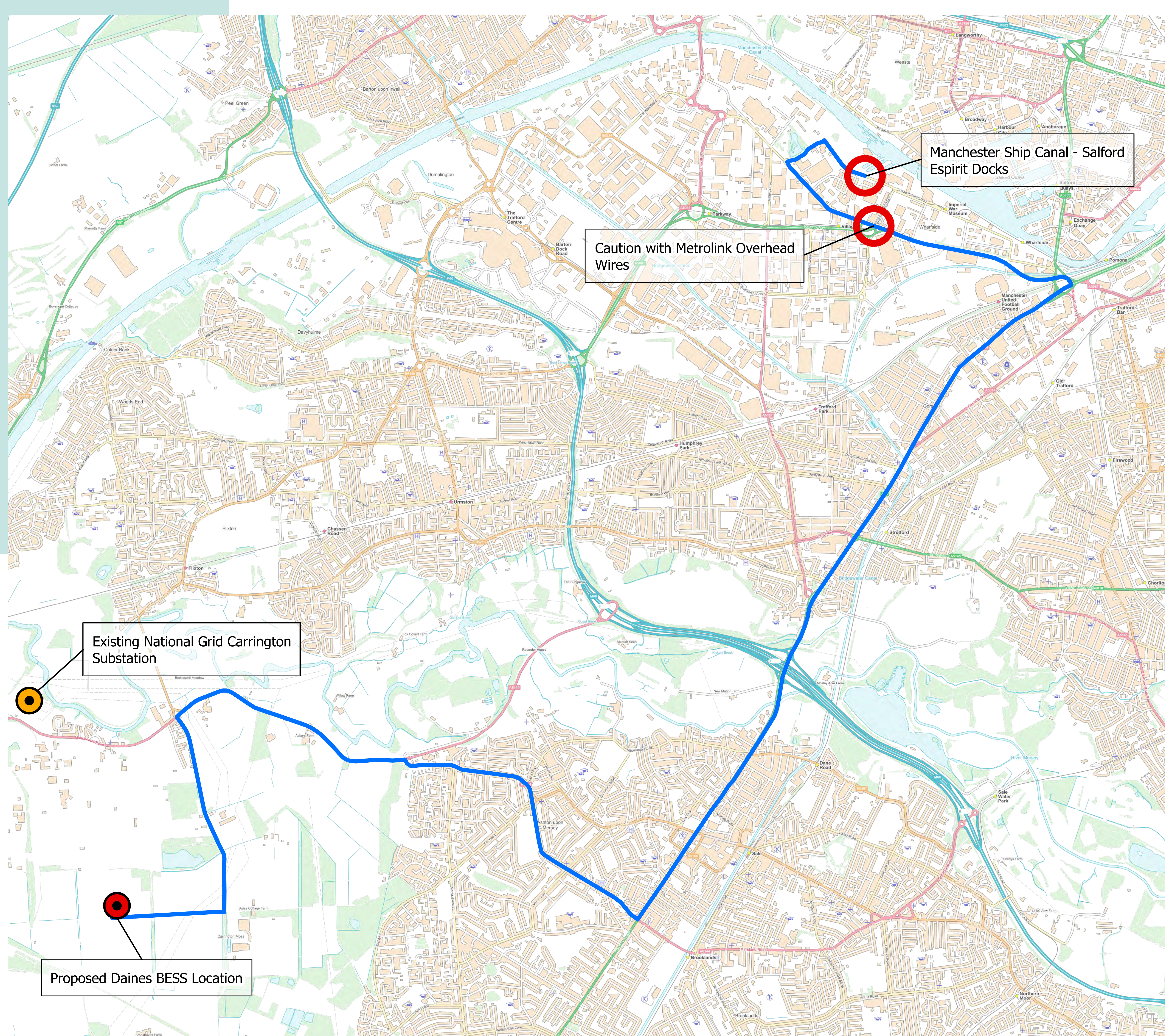
What does this mean for Daines?

The BNG commitments at Daines BESS will consider local conservation management plans to increase the connectivity of habitats at the site and contribute towards biodiversity improvements at a landscape scale. We are committed to ensuring the success of our habitat improvements.

We will develop a rigorous monitoring and maintenance programme for the Daines BESS site throughout the operational life of the development to track and monitor success toward our end goals for conservation. We would also seek to work with local conservation groups to ensure habitats across the wider area are enhanced by our presence.



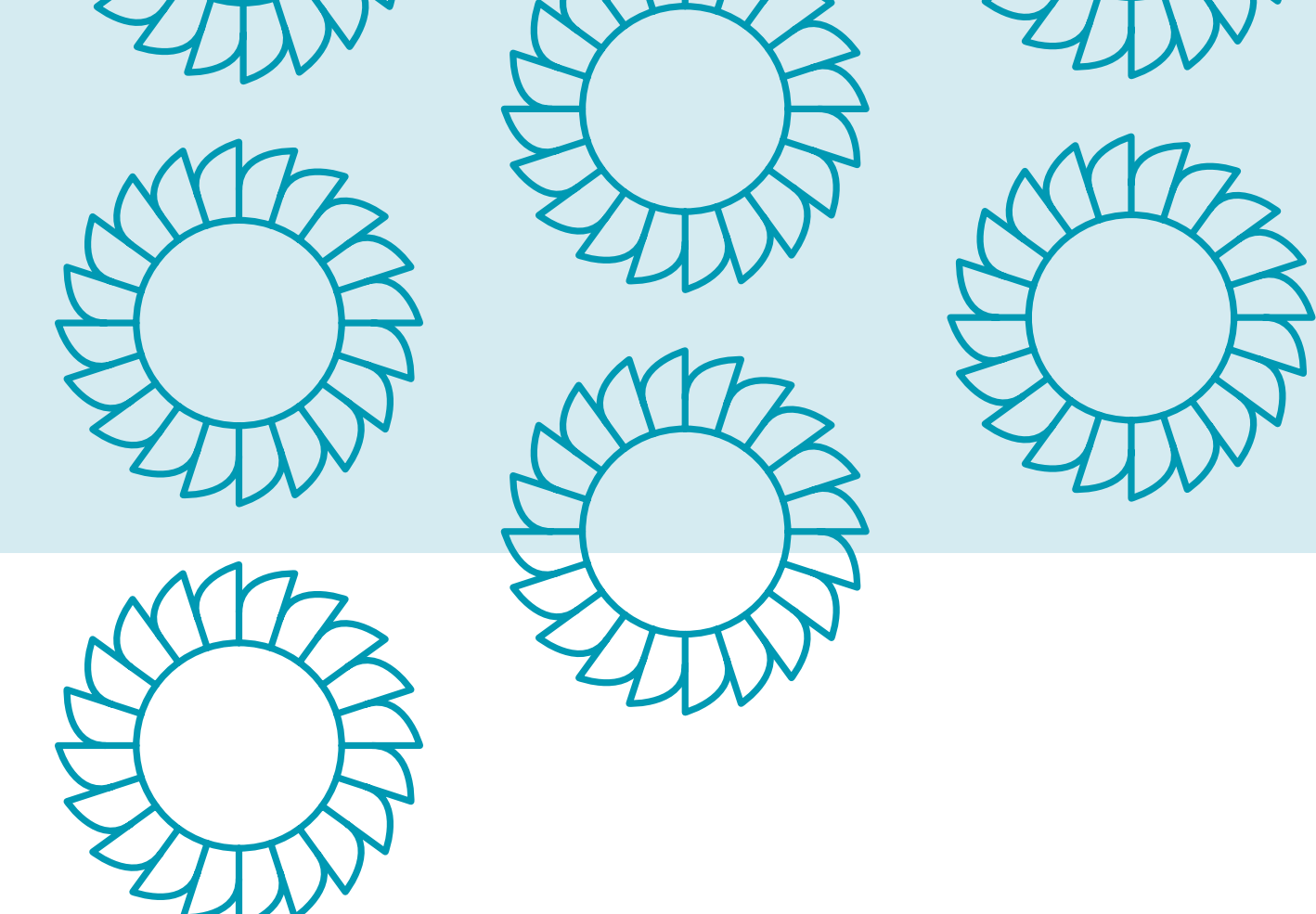
Transport links



The proposed route to bring materials to the Daines site is shown above. Most transport movements would take place in regular Heavy Goods Vehicles. There may be a requirement to use large vehicles under escort for a small number of specific components. If this is required, we will consult with the local authority and police to ensure deliveries are timed to minimise any potential disruption.

The proposed route to site is:

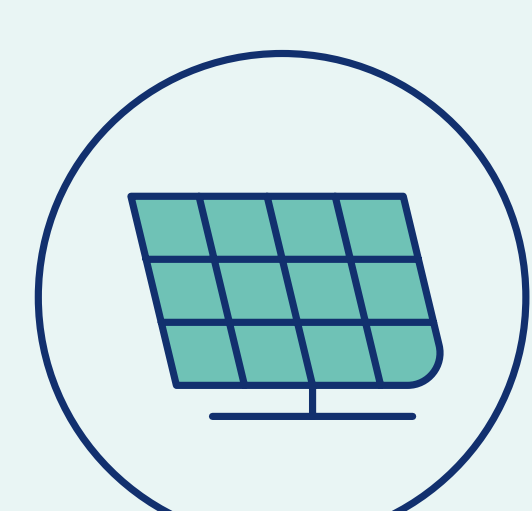
- Utilisation of the Manchester Ship Canal
- Offload plant & equipment at Manchester Docks at Trafford Park
- A5081 (Wharfside Way)
- A56 (Chester Road)
- A6144 (Harboro Road)
- Isherwood road
- Birch Road
- Ashton Road onto site



What happens now?

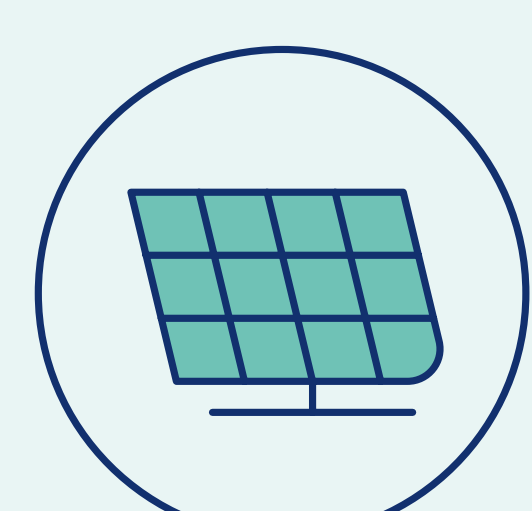
All result of all the activities we have explained at this exhibition, including the feedback we receive from you after this exhibition, will be examined by our project team. This may have an impact on how long the development process takes.

At present, we anticipate the following:



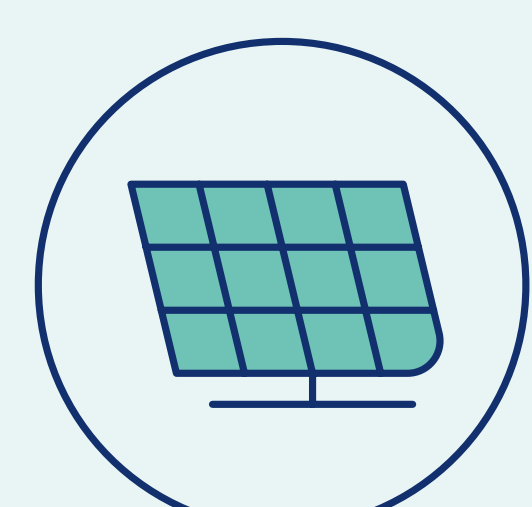
Oct 2024

On site Surveys completion



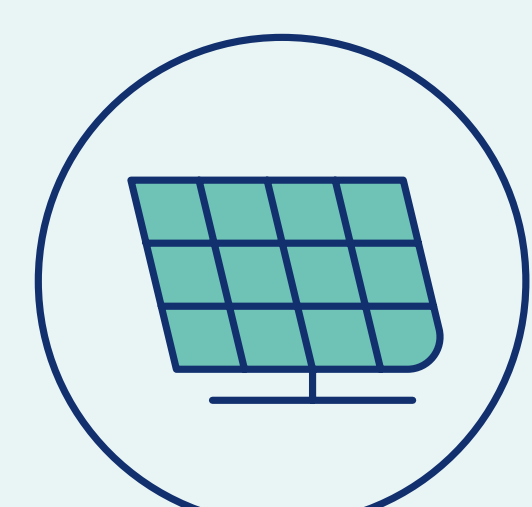
Nov 2024

Submission of planning application



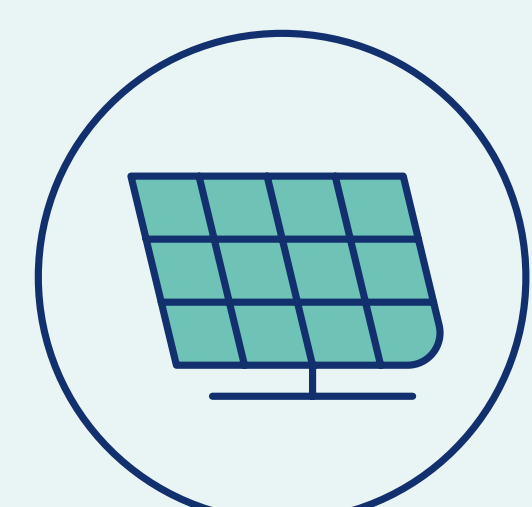
Spring 2025

Anticipated date of Consent



Apr 2026

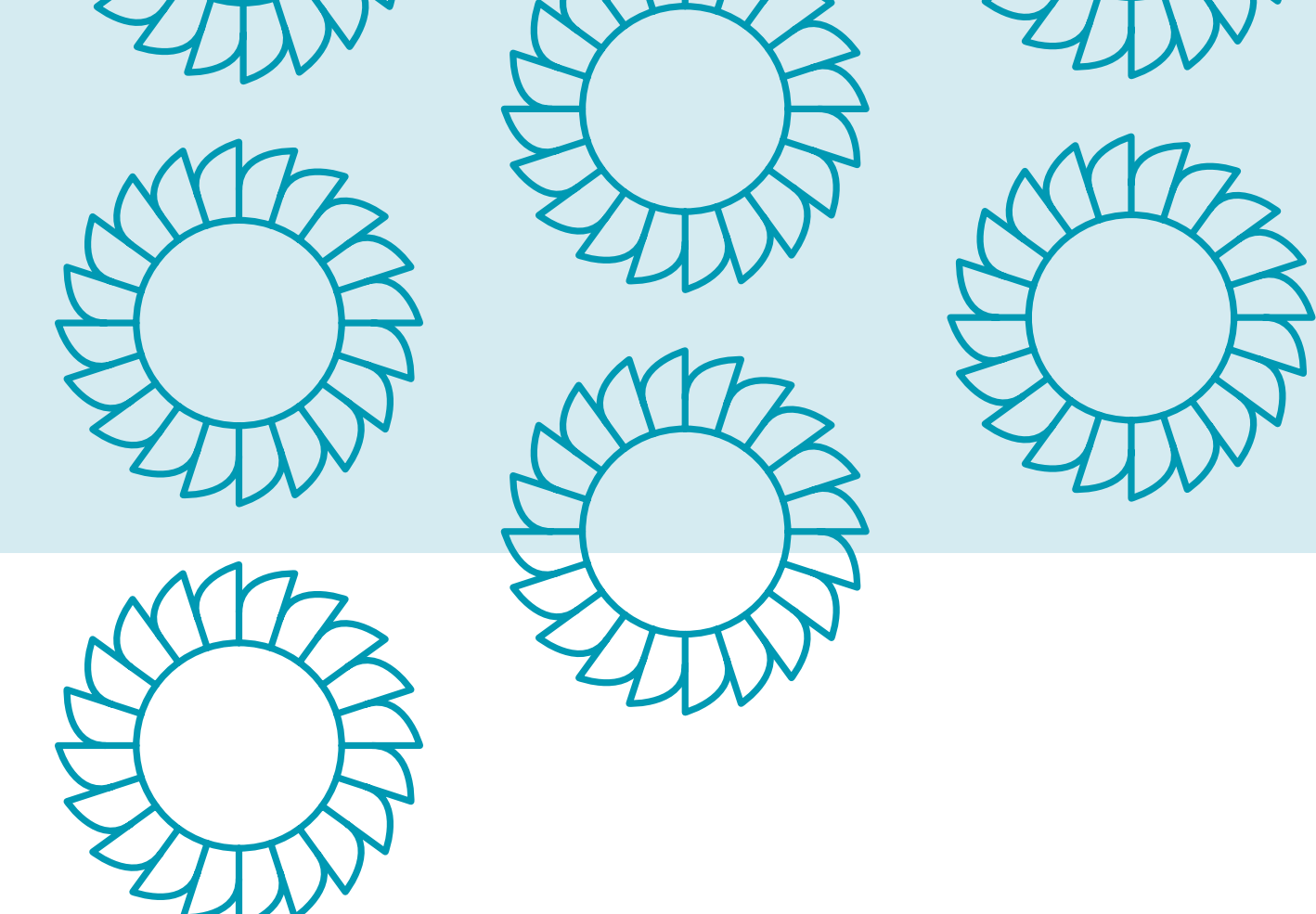
Site mobilization



Nov 2028

Construction completion/Energisation





Have your say

Thank you for taking the time to visit us today to understand more about the proposed development. Please do provide any feedback as your comments will help to inform the planning application.

SSE Renewables would like to deliver local benefits and support local initiatives for the community. We welcome your suggestions on how we can contribute to this. Please include your suggestions within your comments when providing feedback. Your comments can be provided using the forms here today or via email, post, and electronically on the project website. All responses received will be carefully considered and be factored into the proposed development where possible.



Project Website:

www.sserenewables.com/daines

By email: Alan.Greenwood@sse.com

