

The Great Grid Upgrade

Creyke Beck extension and new substation

Connecting clean green energy

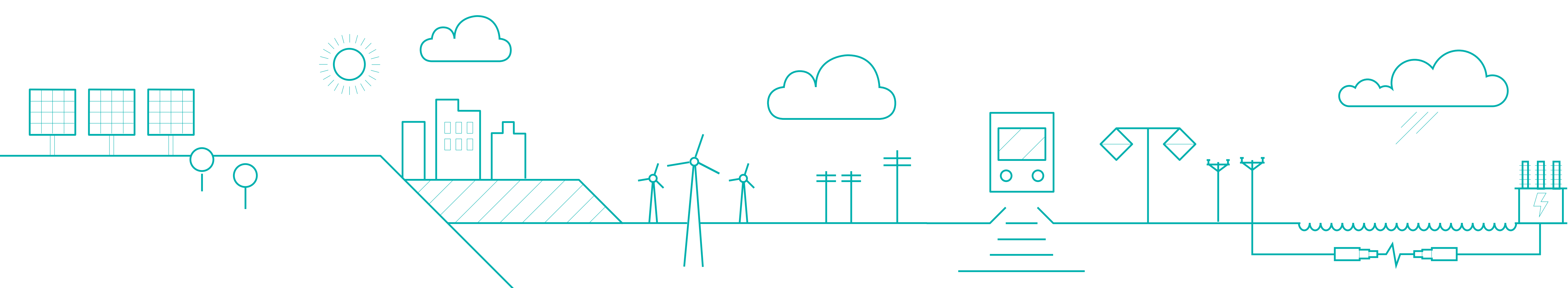
The way we generate electricity in the UK is changing rapidly, and we are transitioning to cheaper, cleaner and more secure forms of energy like new offshore windfarms.

We need to make changes to the network of overhead lines, pylons, cables and other infrastructure that transports electricity around the country, so that everyone has access to the clean electricity from these new renewable sources.

At this exhibition you will find information on the proposed substation works in the vicinity of Creyke Beck, near Cottingham, north of Hull.

Our proposed substation works are needed to connect new offshore wind and interconnectors to the electricity transmission network in the area and reinforce the local network.

Our proposals are part of **The Great Grid Upgrade** – the largest overhaul of the grid in generations.

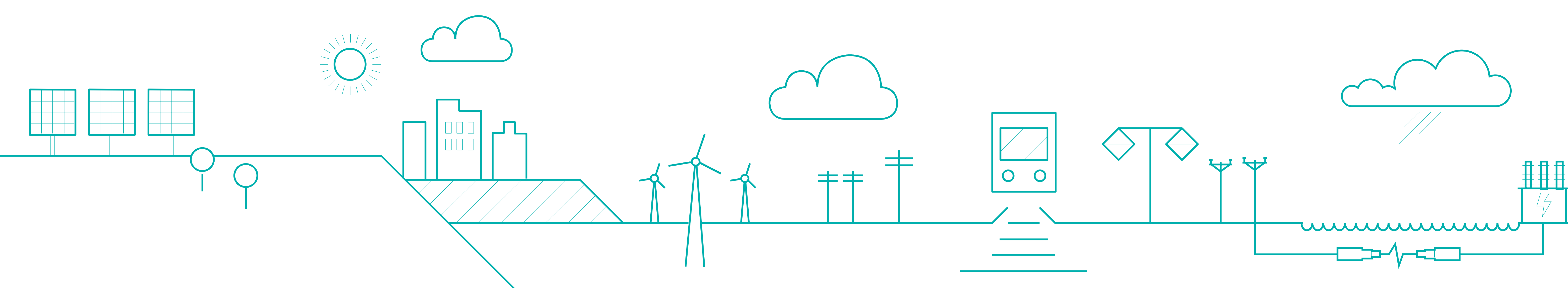
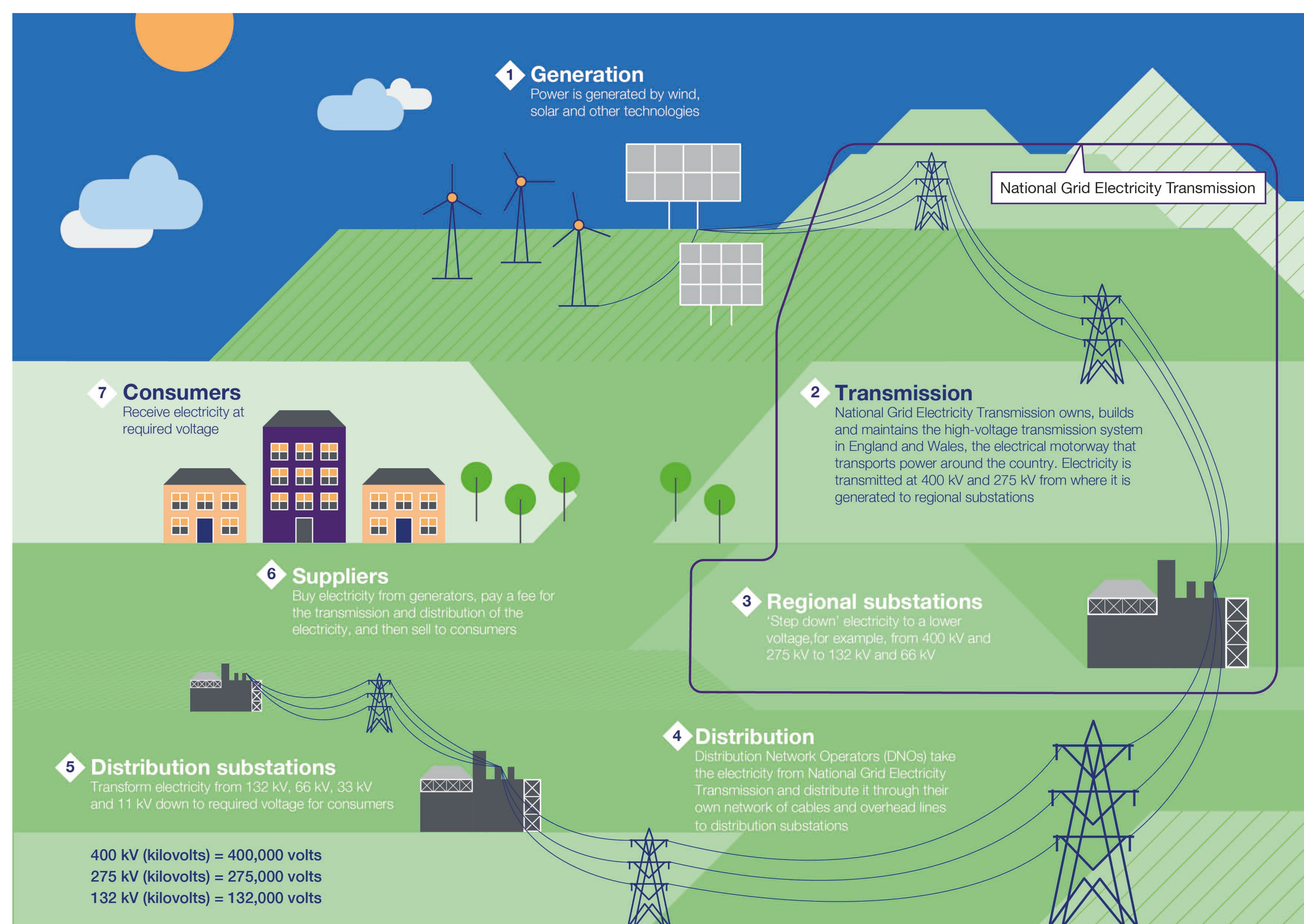


National Grid Electricity Transmission

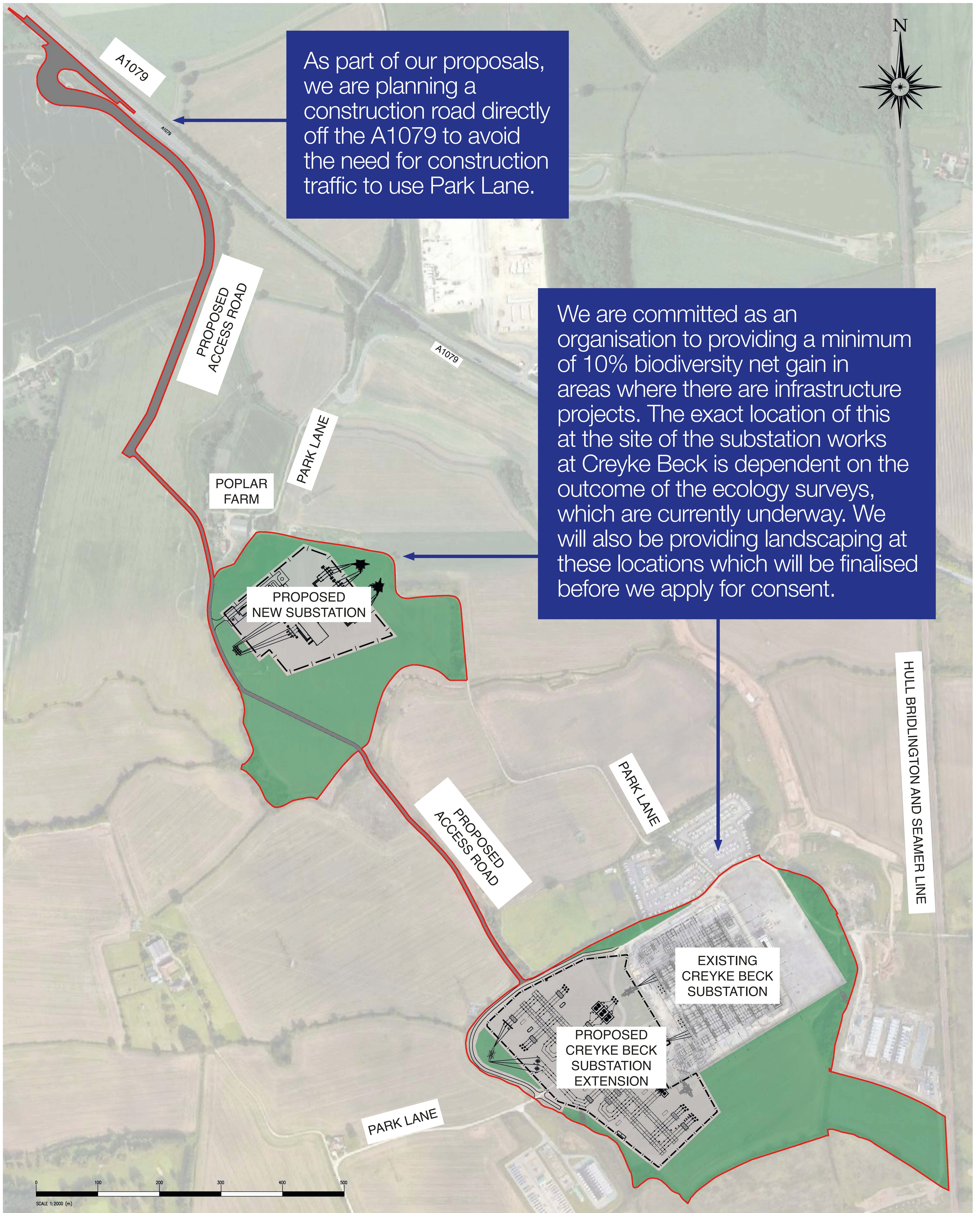
The electricity transmission network transports electricity in bulk around the country, from wind farms, power stations and other sources of generation, or from interconnectors that are connected to the network, and takes it on to the regional distribution companies or large electricity users.

In England and Wales, the electricity transmission network operates at high voltage – 400,000 volts (400 kV) or 275,000 volts (275 kV) – and is owned and maintained by National Grid Electricity Transmission.

At regional substations, the voltage is stepped down and electricity is carried onward from there to individual homes and businesses by the lower voltage regional electricity distribution networks. Those are owned and operated by separate companies.



Substation works



Why we need to extend Creyke Beck substation

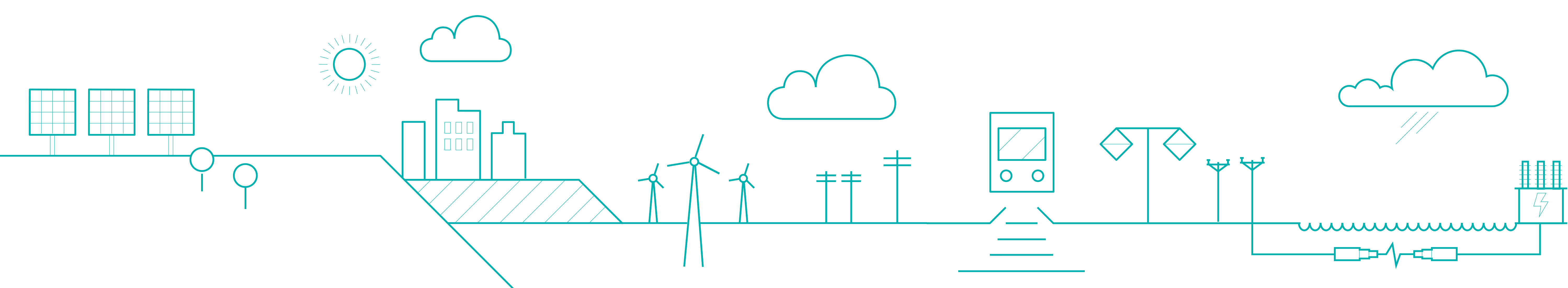
To connect the proposed Hornsea Project Four offshore wind farm and a solar and battery storage project, we need to extend the existing Creyke Beck 400 kV substation on land that we own, southwest of the existing substation.

Our proposal for the substation extension is an air insulated switchgear design, located directly to the southwest of the existing site. The final design of the site is still in development, but proposed works will also include the removal of existing towers, new towers and overhead line works.

We are proposing to divert a section of Park Lane around the substation extension. The new section of road would be constructed and opened before work starts on the extension.



Visualisation showing the proposed substation extension



Why we need to build a new substation

Within the Creyke Beck area we need to connect Dogger Bank South, a proposed new offshore wind farm, two interconnector proposals and the proposed North Humber to High Marnham upgrade.

It is not possible to connect everything proposed in the area to the existing substation so we need to build a new 400 kV substation which will have the capacity needed to transmit the electricity being generated.

The proposed site for the new substation is approximately 700m to the northwest of the existing Creyke Beck substation.

We are proposing a gas insulated switchgear (GIS) substation where most of the equipment is housed within a single building and has a smaller footprint overall.

We considered seven possible sites and ruled out six, for environmental, physical and land use reasons. These include flood risk, gas and water pipes, existing and proposed offshore windfarm cables, and other proposals in the area.

The new substation needs to be a more compact GIS design, because of physical and land use constraints.



Visualisation showing proposed new substation compound

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Have your say & next steps

We want to ensure that we have engaged with the local community ahead of the submission of our planning applications to East Riding of Yorkshire Council.

The feedback received during this consultation will be considered within our plans for the substation works in the Creyke Beck area.

You can read about our plans or submit an online feedback form on our website:
nationalgrid.com/creyke-beck



Please get in touch if to have any questions on our proposed substation works.

Call our community relations line:
0800 051 4430
(lines are open Monday to Friday 9:00am to 5:30 pm)

Email us:
creykebeck@nationalgrid.com

Write to us: **Freepost CREYKE BECK**
(No stamp or further address details are required)

