

What we are planning to do

National Grid Electricity Transmission (NGET) owns, builds and maintains the high-voltage electricity transmission network in England and Wales. We play a vital role in delivering electricity to millions of people, businesses, and communities efficiently, reliably, and safely.

Our substation at Harker has been in service since the 1960s. As the equipment on site gets older, technology advances, and demand on the electricity network increases we will need to replace infrastructure at Harker Substation and increase its capacity.

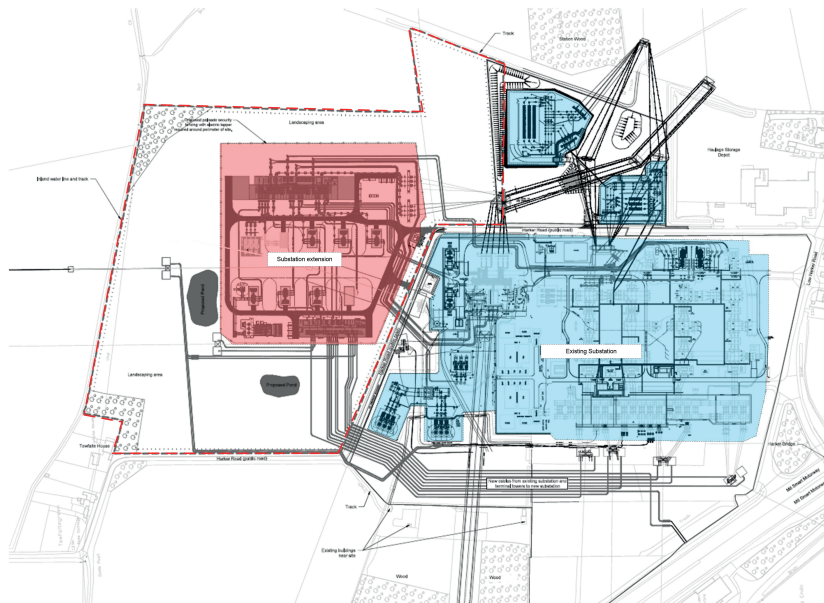
Therefore, we are planning to extend the substation to the north of the existing site in order to replace and rebuild the existing equipment. We aim to submit our planning application later this year to Carlisle Council.



The plans for Harker Substation

The project consists of three main elements:

- Build an extension of the existing substation onto an adjacent field. The extended substation will include similar equipment to the current substation and will look like a smaller version of the existing site. The site extension and substation build will allow for the future decommissioning and removal of parts of the existing substation infrastructure that can be seen on the current site today.
- Reconfigure the short sections of the overhead lines into the extended substation.
- Add new conductors (the wires between the pylons) onto 8km of existing pylons between Harker Substation and the Scottish Border.



Map of the existing site and planned extension

The new substation

Our plans will allow us to make the improvements required to maintain the existing electricity transmission system and ensure the substation is prepared for future demand so it can continue to serve as a critical point on the GB electricity network, connecting energy supplies between Scotland and England.

This work is part of National Grid's contribution to the Government's target to achieve net zero carbon emissions by 2050. To meet these targets, more generation from renewable energy sources such as wind needs to be connected to the electricity network. Our proposed work will provide additional network capacity to accommodate this generation.



Timeline of activity

Our planned timeline of activity is below:

Provisional Date	Expected activity
Autumn 2022	Public engagement takes place
Winter 2022 / 2023	Planning application submitted to Carlisle City Council
Spring 2023	Planning decision expected by Carlisle City Council
Early 2024	Site works commence (If planning application approved)
2028	Substation construction and commissioning complete
Mid 2028	Decommissioning and removal of parts of existing substation to commence



What happens next

National Grid is developing plans and will consider any feedback received before submitting the planning application. If you would like to provide feedback, please fill in the feedback form on the back of the leaflet available today and either drop it into the ballot box or return using the freepost address provided.

You can also provide feedback via our website and by emailing us using the details below.

Once finalised, an application will be submitted to Carlisle City Council. Should planning permission be granted, National Grid will progress the project as per the timeline shared.

Further information

If you would like some more information, please get in touch:



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nationalgrid.com/electricity-transmission/infrastructure-projects/harker-substation

