

## The Great Grid Upgrade

Chesterfield to Willington

**nationalgrid**

# Moving to net zero

## The UK has set a world-leading target for tackling climate change: to achieve net zero carbon emissions by 2050.

The UK Government has committed to reach net zero emissions by 2050. This means achieving a balance between the greenhouse gases put into the atmosphere and those taken out. Decarbonising the energy system is vital to this aim.

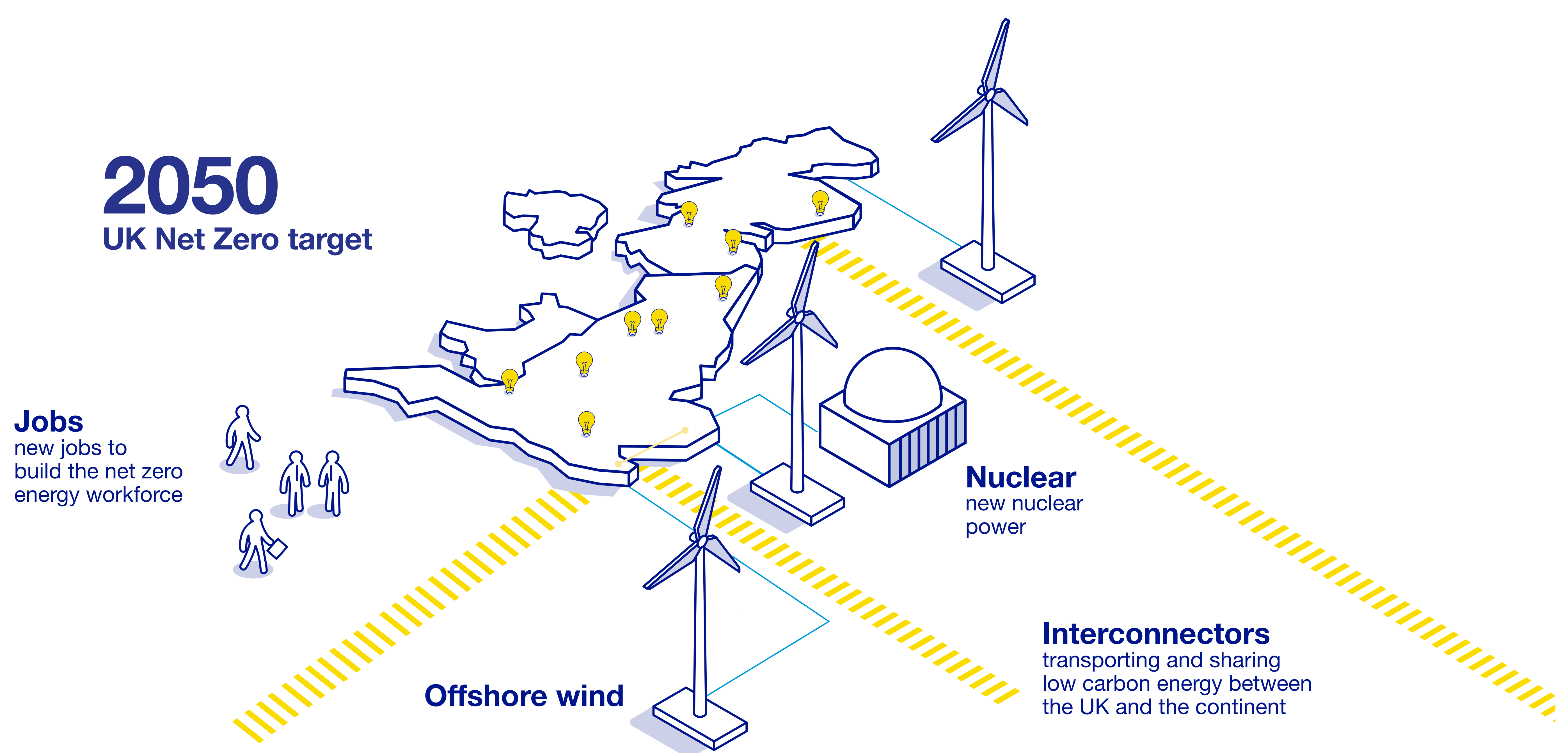
At National Grid Electricity Transmission, we're investing around £1.3bn each year to adapt and develop our network - of pylons, overhead lines, cables and substations - to connect new sources of low carbon energy to homes and businesses. We're investing for the future, connecting more and more low carbon electricity to our network and playing a crucial role in turning the UK's ambitions into reality.

The UK Government has set targets of 50 GW of offshore wind generation by 2030 and up to 140 GW by 2050. There is increased growth forecast in offshore wind capacity in Scotland and the North East of England, as well as increasing power flows to and from European power grids. This will put pressure on the existing network,

such that reinforcement of the network in the Midlands region has been identified as necessary to secure the operation of the transmission system and ensure reliable, economic long-term supply

This will put pressure on the existing network, such that reinforcement of the network in the East Midlands region has been identified as necessary to secure the operation of the transmission system and ensure reliable, economic long-term supply.

The Chesterfield to Willington project will support the UK's net zero target by adding capacity to accommodate increasing power flows of energy generated mostly from offshore wind, in Scotland and North East England, which is expected to double within the next ten years, to areas of demand south to the Midlands and beyond. By reinforcing the network in the centre of the country, the project will facilitate the connection of more renewable and low carbon electricity, to allow clean green energy to be carried around the network.



[chesterfield-willington@nationalgrid.com](mailto:chesterfield-willington@nationalgrid.com)  
0800 073 1047  
FREEPOST NATIONAL GRID PROJECTS (JBP)  
[nationalgrid.com/chesterfieldtowillington](https://nationalgrid.com/chesterfieldtowillington)