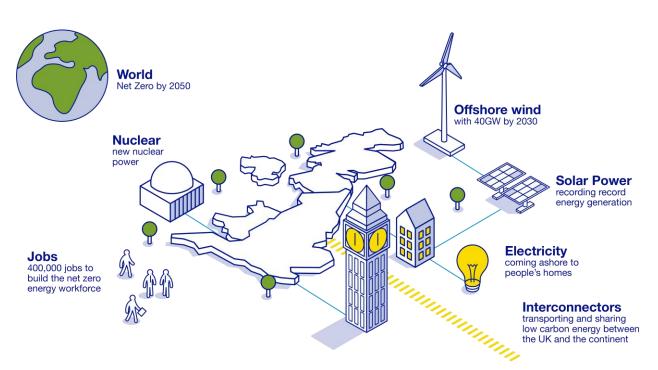


## Moving towards net zero

The UK has a world-leading target to tackle climate change, which is to achieve **net zero by 2050**.

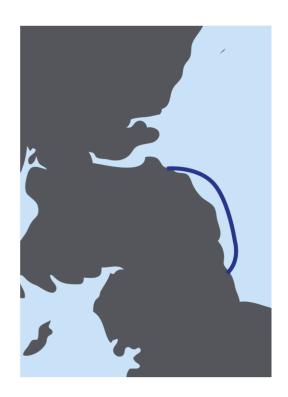
We are already making progress towards this goal - 2020 was the greenest year on record for our electricity system.

But more needs to be done.



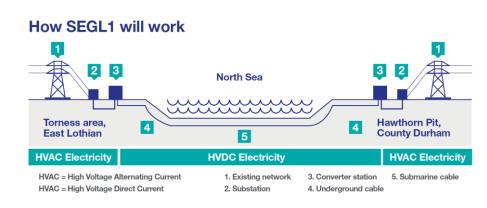
# Meeting the UK's green energy ambitions

- The Government has a net-zero in all greenhouse gases target in place for 2045 in Scotland and 2050 in England and Wales.
- By 2030 the Government's target is for 40GW of offshore wind to be delivered – enough to power every home in the UK.
- To help deliver green energy to homes and businesses across the UK, we need to increase the capability of our network between Scotland and England
- To do this, we are proposing the construction of two new High Voltage Direct Current (HVDC) links which will operate as electricity superhighways from Scotland to England.
- These links will be called the Scotland to England Green Links or SEGL1 and SEGL2.



### Our proposal

- We are proposing the construction of a 2GW HVDC link called SEGL1, which will run from the Torness area in East Lothian to Hawthorn Pit (between Murton and South Hetton) in County Durham.
- This link will carry enough power for two million homes.
- We are also proposing to build a new converter station and substation, and install underground cables from our landfall point just north of Seaham to Hawthorn Pit.
- The proposed locations for the new converter station and cable route have been selected after extensive research and planning.





An indicative image of our Hawthorn Pit converter station and substation

# Subsea offshore and onshore cable laying





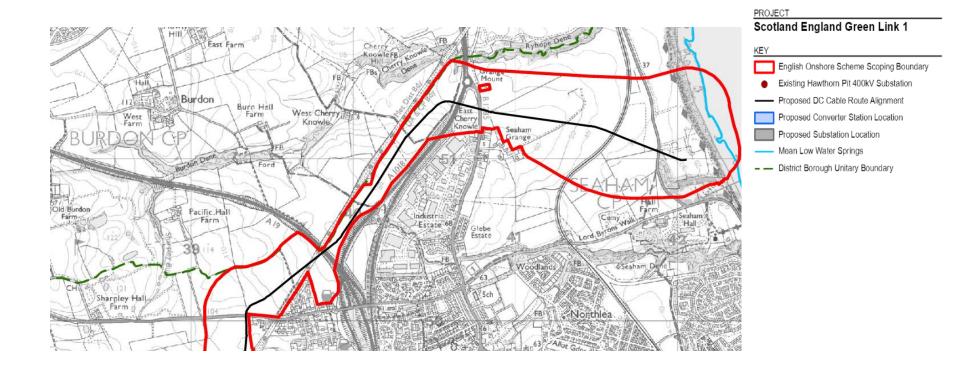


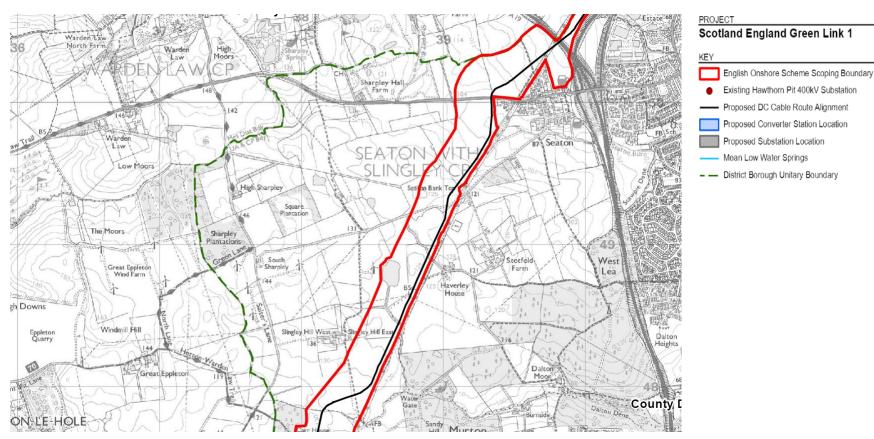
### PROJECT

### Scotland England Green Link 1

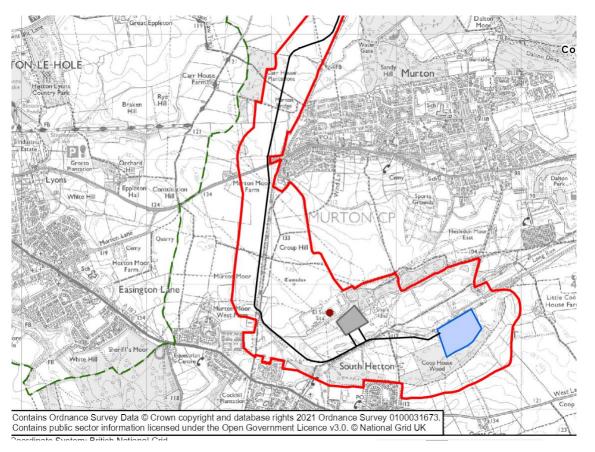
KEY

- English Onshore Scheme Scoping Boundary
- Existing Hawthorn Pit 400kV Substation
- Proposed DC Cable Route Alignment
- Proposed Converter Station Location
- Proposed Substation Location
- Mean Low Water Springs
- - District Borough Unitary Boundary





National Grid | Scotland to England Green Link 1 Torness to Hawthorn Pit | June 2021



#### PROJECT

### Scotland England Green Link 1

#### KE)

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