

SSEN Transmission's contribution to the Transition to a Low Carbon Economy in Scotland

Renewable Electricity

In 2009, the Scottish Parliament passed unanimously the most ambitious climate change legislation anywhere in the world...

...Now, Scotland is a world leader in Renewable energy. It aims to meet **100% of its electricity demand from Renewables by 2020** and commits to deliver **50% of all Scotland's energy needs from Renewables by 2030**.

Renewable Electricity in Scotland displaced an estimated...

9.4 Million tonnes

of CO₂ across the GB system in 2016

An estimated...

3.6 Million tonnes

of this was displaced by the generation we have connected to our network since March 2013



Scotland nearly quadrupled its renewable electricity generation capacity between 2002 and 2016



The renewable electricity generation connected to the SSEN Transmission system nearly doubled between 2002 and 2016

56% of the renewable electricity in Scotland is connected to our network. That's...

5158MW

Which is enough to power over...



4 MILLION HOMES

96%

Of the...

5383MW

of generation connected to our network is clean renewable generation

Renewable Connections

In 2017/18 we have connected over **329MW** of renewable generation capacity in the north of Scotland including projects such as **Aberdeen Offshore Windfarm** and **Stronelairg Windfarm**.

In 2018/19 we will connect a further **894MW** including **Beatrice offshore wind farm** and **Dorenell onshore wind farm**.

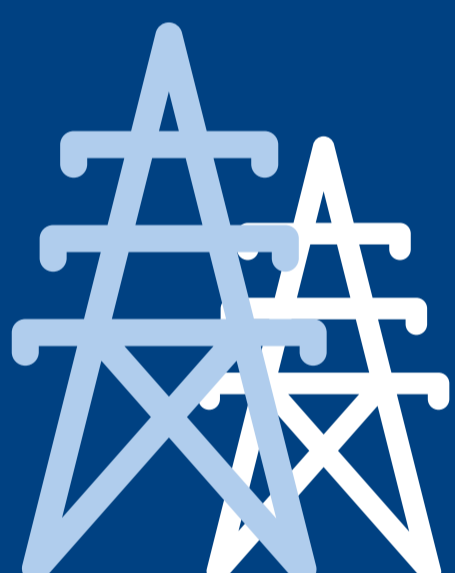
Connected Generation:

968MW

2013 - 2017

1953MW

2017 - 2021



We invested...

£112M

in connection assets between 2013 and 2017 and will invest a further...

£280M

in new connection assets by 2021 to support the transition to a low carbon economy

Low Carbon Jobs

The Scottish low carbon and renewable energy sectors now support...

49,000 Jobs



Since April 2013 we have increased our staff numbers by 50% to support the growth of our low carbon network

284 April 2013



427 April 2017

Greenhouse Gas Emissions

The Scottish Government set a target of a 42% reduction in emissions by 2020 to...

40,717,000tCO₂e

We have delivered...

32%

reduction in our Business Carbon Footprint from 2013. Double the Scottish Government equivalent target reduction rate for this period

35%

reduction in our electrical losses from 2013 to...

110,004tCO₂e

24.5%

reduction in SF6 leakage from our assets since targets were set in 2014, meeting our reduction target for the first time

All greenhouse gas emissions data up to 31 March 2017

While helping Scotland transition to a low carbon economy, we maintained Reliability of Supply at over...

99.999%