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. Scotland is establishing a target of generating 100% of its electricity from renewable sources by 2020. Scotland has already exceeded this target, achieving 58% of its electricity demand from renewable sources in 2018. The Scottish Government has set a target of 50% of all Scotland’s energy needs coming from Renewables by 2030.

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 windfarm and Dorenell onshore windfarm.

Low Carbon Jobs

Greenhouse Gas Emissions

While helping Scotland transition to a low carbon economy, we maintained Reliability of Supply at over 99.99%.

Scotland nearly quadrupled its renewable electricity generation capacity between 2002 and 2016, which is enough to power over 4 million homes. Of the renewable electricity in Scotland, 56% is connected to the SSEN Transmission system. That’s 40.717 million tonnes of CO2 displaced across the GB system in 2016, which is enough to power over 9.4 million homes.

Since April 2013 we have increased our staff numbers by 50% to support the growth of our low carbon network. The Scottish Government set a target of a 42% reduction in emissions by 2020, to which we have contributed.

We have reduced our business carbon footprint by 32% and SF6 leakage by 24.5% between 2013 and 2017, and reduced our electrical losses by 35% during the same period.

We have delivered more than £112 million in connection assets between 2013 and 2017 which will save our customers £280 million in new connection assets by 2025 to support the transition to a low carbon economy.