

## National Grid's Hutton substation sets global standard

South Korean delegation visits Hutton substation near Kendal, Cumbria to see world leading new technology

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- **South Korean delegation tours Hutton substation to view the world-leading new technology**
- **Kepeco, South Korea's electricity utility keen to assimilate this into their own electricity transmission system**
- **Hutton substation expansion completed in 2015 and was the first of its kind installed in GB**

Six delegates from the Korea Electric Power Corporation (Kepeco) have visited the recently redeveloped and expanded substation in Hutton near Kendal, South Lakeland.

National Grid hosted the visit alongside ABB who developed the equipment. Kepeco is currently considering the technical requirements of their own equivalent transmission system and wished to have the chance to see a recent installation first hand. The delegates were given the opportunity to view the equipment and ask questions regarding the technology.

The two 400 kV Series Capacitor installations at Hutton substation are the first of their type to have been installed in Great Britain and will assist in National Grid's strategy towards achieving the national target for 15% of the UK's energy to be produced from renewable sources by 2020.

The construction was a necessary development to accommodate increasing power transfers from Scotland to England. The new substation has increased the capacity of the line from Harker, near Carlisle, to Hutton, and on to Quernmore Tee, close to Lancaster.

The expansion of the substation included the installation of series compensation equipment and the removal of a large visible terminal tower.

Andrew Taylor, Technology Engineer at National Grid, said: "National Grid was delighted to host our South Korean colleagues to showcase the new Hutton substation. The international interest this project has received is indicative of the high calibre results of National Grid's ongoing investment in and improvement to British energy provision."

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Notes for editors

#### Notes to Editors:

National Grid is pivotal to the energy systems in the UK and the north eastern United States. We aim to serve customers well and efficiently, supporting the communities in which we operate and making possible the energy systems of the future.

#### National Grid in the UK:

- We own and operate the electricity transmission network in England and Wales, with day-to-day responsibility for balancing supply and demand. We also operate, but do not own, the Scottish networks. Our networks comprise approximately 7,200 kilometres (4,474 miles) of overhead line, 1,500 kilometres (932 miles) of underground cable and 342 substations.
- We own and operate the gas National Transmission System in Great Britain, with day-to-day responsibility for balancing supply and demand. Our network comprises approximately 7,660 kilometres (4,760 miles) of high-pressure pipe and 618 above-ground installations.
- As Great Britain's System Operator (SO) we make sure gas and electricity is transported safely and efficiently from where it is produced to where it is consumed. From April 2019, Electricity System Operator (ESO) is a new standalone business within National Grid, legally separate from all other parts of the National Grid Group. This will provide the right environment to deliver a balanced and impartial ESO that can realise real benefits for consumers as we transition to a more decentralised, decarbonised electricity system.
- Other UK activities mainly relate to businesses operating in competitive markets outside of our core regulated businesses; including interconnectors, gas metering activities and a liquefied natural gas (LNG) importation terminal – all of which are now part of National Grid Ventures. National Grid Property is responsible for the management, clean-up and disposal of surplus sites in the UK. Most of these are former gas works.

Find out more about the energy challenge and how National Grid is helping find solutions to some of the challenges we face at <https://www.nationalgrid.com/group/news>

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