

News Release

FOR IMMEDIATE RELEASE

Hitachi Energy selected as preferred technology provider for the longest HVDC link in the UK

HVDC interconnection to secure power transmission and support new renewable electricity generation with the country's largest electricity transmission project



North Sea Link – Blyth Station in the UK

Zurich, July 26, 2023 – Hitachi Energy, a global technology leader that is advancing a sustainable energy future for all, today announced it has been selected as preferred technology provider of SSEN Transmission and National Grid, to supply two high-voltage direct current (HVDC) converter stations to interconnect the Scottish and English power grids.

The energy transition requires a collaborative effort that can only be achieved with advanced technologies and new ways of working. In appointing Hitachi Energy as their preferred technology provider, SSEN Transmission and National Grid secure best-in-class technology and future production capacity in a rapidly growing market. For Hitachi Energy, this enables investment in new production capacity and to undertake large-scale recruitment drives. It also strengthens collaboration, standardization of solutions, and synergies between projects.

The integration of renewables requires solutions that make the grid resilient, stable, and flexible. Hitachi Energy's innovation and long development of voltage sourced converter (VSC) power electronics and control and protection (MACH™)¹ technologies meet the requirements alongside many other landmark grid integration projects.

Eastern Green Link 2 will consist of two 525-kilovolt (kV) bipole VSC converter stations connected by 440 kilometers of subsea cable and 70 kilometers of underground cable, making it the longest HVDC link in the UK. The link will efficiently supply a total of 2,000 megawatts

(MW) of electricity, which is enough to power around two million UK homes.²

The link will help to secure power transmission in the northern UK and support the integration of new renewable electricity generation in Scotland, as part of the UK's Net Zero Strategy.³ As much as 11,000 MW of offshore wind capacity is possible in Scottish waters by 2030⁴, and HVDC transmission will play a large part in bringing this vast amount of renewable power to shore and south, to communities across the country.

"The UK's Net Zero Strategy has ambitious targets which will require vast amounts of new renewable generation. Electricity will be the backbone of the entire energy system," said Niklas Persson, Managing Director at Hitachi Energy's Grid Integration business. "Our pioneering HVDC technology will ensure that this electricity will reliably and efficiently get where it's needed most."

"This is another important milestone for EGL2 which is part of the new network infrastructure required to help the UK meet its net zero and energy security ambitions," said Sarah Sale, Deputy Project Director of National Grid. "Along with cabling bidder and formal joint venture announcements, this is another key part of the project which is now in place and ready for the delivery phase. We look forward to working in collaboration with Hitachi Energy and BAM as the project continues to progress."

"The converter stations at either end of the cable will play a crucial role in making the power transported subsea suitable for transportation around the onshore transmission network - getting Hitachi Energy and BAM in place to deliver that technology is great for the project," said Ricky Saez, the EGL2 Project Director from SSEN Transmission.

"BAM is delighted to work in collaboration with Hitachi Energy on this vital renewable energy project for National Grid and SSEN Transmission," said Huw Jones, Executive Director of BAM Nuttall. "The converter stations will enable the transmission of green energy from areas of offshore wind generation to centers of population, supporting the UK's net zero ambitions and providing better energy security. We look forward to engaging with local communities and suppliers in Aberdeenshire and North Yorkshire, supporting BAM's vision to deliver sustainable infrastructure for our clients, stakeholders, and the communities in which we work."



Hitachi Energy is collaborating with BAM, a construction company that designs, builds, and maintains sustainable buildings and infrastructure, to provide the civil and installation scope for the project. The collaboration with BAM will leverage the core competencies of the two companies to deliver a best-in-class solution for the project.

Hitachi Energy pioneered commercial HVDC technology almost 70 years ago and has delivered more than half of the world's HVDC projects.

1 [Modular Advanced Control for HVDC \(MACH™\)](#)

2 <https://www.nationalgrid.com/electricity-transmission/network-and-infrastructure/seg12>

3 <https://www.gov.uk/government/publications/net-zero-strategy>

4 <https://www.gov.scot/publications/offshore-wind-policy-statement/>

HVDC website

<https://www.hitachienergy.com/offering/product-and-system/hvdc>

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About Hitachi Energy

Hitachi Energy is a global technology leader that is advancing a sustainable energy future for all. We serve customers in the utility, industry and infrastructure sectors with innovative solutions and services across the value chain. Together with customers and partners, we pioneer technologies and enable the digital transformation required to accelerate the energy transition towards a carbon-neutral future. We are advancing the world's energy system to become more sustainable, flexible and secure whilst balancing social, environmental and economic value. Hitachi Energy has a proven track record and unparalleled installed base in

more than 140 countries. Headquartered in Switzerland, we employ around 40,000 people in 90 countries and generate business volumes of over \$10 billion USD.

<https://www.hitachienergy.com>

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About Hitachi, Ltd.

Hitachi drives Social Innovation Business, creating a sustainable society through the use of data and technology. We solve customers' and society's challenges with Lumada solutions leveraging IT, OT (Operational Technology) and products. Hitachi operates under the business structure of “Digital Systems & Services” - supporting our customers’ digital transformation; “Green Energy & Mobility” - contributing to a decarbonized society through energy and railway systems, and “Connective Industries” - connecting products through digital technology to provide solutions in various industries. Driven by Digital, Green, and Innovation, we aim for growth through co-creation with our customers. The company’s consolidated revenues for fiscal year 2022 (ended March 31, 2023) totaled 10,881.1 billion yen, with 696 consolidated subsidiaries and approximately 320,000 employees worldwide. For more information on Hitachi, please visit the company's website at <https://www.hitachi.com>.

Information contained in this news release is current as of the date of the press announcement, but may be subject to change without prior notice.
