

News Release

FOR IMMEDIATE RELEASE

Hitachi Energy wins major contract for the first-of-its-kind sub-sea power transmission network in the MENA region advancing a sustainable energy future for Abu Dhabi

HVDC Light® will connect low-carbon power from the mainland grid to ADNOC's production operations as a strategic project to enable a sustainable, flexible and secure power supply.



HVDC Link to connect offshore operations to the onshore power grid

Zurich, 22 December, 2021 – Hitachi Energy today announced it has won a major order from Samsung C&T Corporation, one of the world's largest engineering and construction companies, to connect ADNOC's offshore operations to the onshore power grid in the United Arab Emirates owned and operated by Abu Dhabi National Energy Company PJSC (TAQA).

Hitachi Energy's HVDC Light® technology and MACH™ digital control platform⁽¹⁾ will enable the transfer of cleaner and more efficient power from the mainland to power ADNOC's offshore production operations, enabling a carbon footprint reduction of ADNOC's offshore operations by more than thirty percent⁽²⁾.

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This innovative solution reinforces Hitachi Energy's commitment to helping customers and countries to transition towards a carbon-neutral future and help enable the '2050 Net-Zero Initiative' of the UAE.

With a capacity of 3,200 megawatts (MW), the two HVDC links will be by far the most powerful power-from-shore solution in the Middle East and North Africa (MENA) region to date. It is also the first HVDC power-from-shore solution outside Norwegian waters. This innovative solution reflects how Hitachi Energy continues to pioneer technology to address the growing interest from national and independent oil and gas companies to power their offshore production facilities with carbon-free energy from onshore power grids.

"We are proud to be enabling Abu Dhabi and ADNOC to make significant progress on their pathway toward achieving the United Arab Emirates' ambition to be carbon-neutral by 2050," said Claudio Facchin, CEO of Hitachi Energy. He continued, "At Hitachi Energy we are championing the urgency of the clean energy transition, and this major order is further evidence that we are a 'go to' partner for developing and deploying technologies and solutions that are advancing the world's energy system to be more sustainable, flexible and secure."

Mr. SH Kim, Procurement Manager at Samsung C&T Corporation, commented, "In Hitachi Energy, we have selected a trusted partner who brings deep global competence and a strong mindset of collaboration and innovation." SH Kim continued, "Together, we will serve ADNOC with pioneering technologies that are proven to deliver for such a large HVDC project."

The entire power-from-shore project will comprise two HVDC power links, which will connect two clusters of offshore oil and gas production facilities to the mainland power grid, a distance of up to 140 kilometers for each cluster.

Hitachi Energy is supplying four converter stations, which convert AC power to DC for transmission in the subsea cables, then reconvert it to AC from DC for use in the offshore power systems. The HVDC technology will be supplied from Hitachi Energy's global competence centers. Also included in the order are system studies, design and engineering, supply, installation supervision and commissioning. Hitachi Energy will support the customers with a long-term life-cycle service agreement leveraging digital

technologies to ensure system availability and reliability over the HVDC links' long operating life.

HVDC Light is a voltage source converter technology that was pioneered by Hitachi Energy. It is the preferred technology for many grid applications, including interconnecting national power grids, integrating offshore wind parks with mainland transmission systems, feeding more power into congested city centers, interconnecting asynchronous networks that operate at different frequencies, and power from shore.

HVDC Light's defining features include uniquely compact converter stations (which is extremely important in space-critical applications like offshore wind, offshore production facilities and city-center infeeds), exceptionally low electrical losses, and black-start capability to restore power after a grid outage.

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

Notes:

- (1) [Modular Advanced Control for HVDC \(MACH™\)](#)
- (2) The estimated reduction in carbon footprint is based on Hitachi Energy's own calculations.

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 38,000 people in 90 countries and generate business volumes of approximately \$10 billion USD.

- <https://www.hitachienergy.com>
- <https://www.linkedin.com/company/hitachienergy>
- <https://twitter.com/HitachiEnergy>

About Hitachi, Ltd.

Hitachi, Ltd. (TSE: 6501), headquartered in Tokyo, Japan, contributes to a sustainable society with a higher quality of life by driving innovation through data and technology

as the Social Innovation Business. Hitachi is focused on strengthening its contribution to the Environment, the Resilience of business and social infrastructure as well as comprehensive programs to enhance Security & Safety. Hitachi resolves the issues faced by customers and society across six domains: IT, Energy, Mobility, Industry, Smart Life and Automotive Systems through its proprietary Lumada solutions. The company's consolidated revenues for fiscal year 2020 (ended March 31, 2021) totaled 8,729.1 billion yen (\$78.6 billion), with 871 consolidated subsidiaries and approximately 350,000 employees worldwide. For more information on Hitachi, please visit the company's website at <https://www.hitachi.com>.

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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.
