News Release
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HITACHI

Hitachi Energy selected for 950-km HVDC transmission system to deliver 6 GW of renewable energy in India

- Hitachi Energy to enable delivery of 950 km HVDC connection from the renewable energy zone in Bhadla, Rajasthan to Fatehpur, Uttar Pradesh
- New HVDC link will provide sufficient energy for around 60 million households – the latest milestone in India's 500 GW renewable evacuation and interstate transmission system
- Supports India's journey to becoming the world's third largest economy, by ensuring robust energy infrastructure to meet growing power consumption and demand

Zurich, April 3, 2025 Rajasthan Part I Power Transmission Limited, a subsidiary of Adani Energy Solutions Ltd. ("AESL"), has awarded a major contract to a consortium comprising Hitachi Energy and Bharat Heavy Electricals Limited (BHEL). The contract will see the consortium design and deliver high-voltage direct current (HVDC) terminals to transmit renewable energy from the Bhadla area of Rajasthan to the industrial and transport hub in Fatehpur, Uttar Pradesh. The 6 gigawatt (GW), 950 km HVDC link can power approximately 60 million households in India.

Forming part of India's 500 GW renewable evacuation and interstate transmission system, the ±800 kilovolt (kV), 6 GW bi-pole and bi-directional HVDC terminals will help transfer power from the renewable energy zone in Bhadla.

"By enabling efficient evacuation of renewable energy and connecting it to the national grid, AESL is playing its role in India's decarbonization journey. We will be deploying the latest technology and practices to deliver the project on time and with minimal environmental impact," said Kandarp Patel, CEO, AESL.

"A strong HVDC system is essential for the bi-directional power flow control and grid stability that support the rapid pace of renewable energy integration in India. We are honored to be part of another major HVDC transmission project in the country," said Niklas Persson, Managing Director of Business Unit Grid Integration at Hitachi Energy. "Our HVDC technology will play a crucial role in enabling a sustainable and reliable power system to meet India's Nationally Determined Contributions (NDC) for both mid- and long-term energy goals."

HVDC technology is the most effective and cost-efficient way of transmitting clean energy over long distances. The flexibility of two-way power flow materially enhances the grid's strength and responsiveness, supporting India's strategic ambition to integrating more renewable energy into its energy mix.

2024 marked the 70th anniversary of HVDC technology, pioneered by Hitachi Energy globally. Today, Hitachi Energy has integrated more than 150 GW of HVDC links into power systems worldwide.

The scope of the Bhadla project includes converter transformers, AC/DC control and protection, thyristor valves, 765 kV/400 kV grid connections, and auxiliary systems to be delivered by Hitachi Energy and its consortium partner BHEL.

HVDC transmission is critical to integrating remote renewable energy sources into the power grid. This will help address rapidly growing power consumption and ensure uninterrupted and reliable quality electricity across the country.

About Hitachi Energy
Hitachi Energy is a global technology leader that is advancing a sustainable energy future for all. We are advancing the world's energy system to be more sustainable, flexible and secure and we collaborate with customers and partners to enable a sustainable energy future – for today's generations and those to come. Hitachi Energy has a proven track record and unparalleled installed base in more than 140 countries, serving customers in utility, industry, transportation, data centers and infrastructure sectors. With innovative technologies and services including the integration of more than 150 gigawatts of HVDC links into the power system, we help make the energy value chain more efficient, making electricity more accessible to all. Together with stakeholders across sectors and geographies, we enable the digital transformation required to accelerate the energy transition towards a carbon-neutral future. Headquartered in Switzerland, we employ around 45,000 people in 60 countries and generate business volumes of around $13 billion USD.

In India, Hitachi Energy operates under the legal entity name Hitachi Energy India Limited and is listed on the National Stock Exchange of India Limited (NSE) and BSE Limited (BSE) as POWERINDIA, Scrip code 543187.

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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 3 business sectors 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 revenues as 3 sectors for fiscal year 2023 (ended March 31, 2024) totaled 8,564.3 billion yen, with 573 consolidated subsidiaries and approximately 270,000 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.
