News Release

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Inspire the Next

Hitachi Energy launches IdentiQ™ digital twin for sustainable, flexible and secure power grids

Game-changing solutions built on the unique domain expertise of the technology and market leader in power grids which integrate with Hitachi's Lumada platform

Zurich, November 16, 2021 – Further to its press release on October 13, 2021, announcing its evolution to Hitachi Energy, the global technology and market leader in power grids today launched IdentiQ™, its digital twin[1] solutions for high-voltage direct current (HVDC) and power quality solutions. IdentiQ[2] will help to advance the world's energy system to be more sustainable, flexible and secure, accelerating the transition towards a carbon-neutral future.

IdentiQ is the digital twin of a HVDC converter station, STATCOM or other power quality solution. It provides all the relevant asset information, analytics and operational data in an intuitive and easy-to-navigate dashboard, which users can customize to match their needs. IdentiQ includes 3D interactive visualization of the complete asset, combined with one-click access to all the associated plant and equipment information, including engineering documentation, operational and maintenance procedures, safety training and live operational data for monitoring and analytics.

"IdentiQ is a game-changing digital twin solution built on our unique domain expertise and leadership in power grid technologies and innovation," said Niklas Persson, Managing Director of Hitachi Energy's Grid Integration business. Niklas added, "It is a significant addition to Hitachi Energy's digital offering and supports our customers' efforts to continuously enhance the efficiency and reliability of their grid investments."

IdentiQ will enable customers to improve the management of power grid assets by clustering all information into one digital location for seamless access by all operational functions. This approach stands at the core of Hitachi Energy's vision for digital twin technology: delivering the right resources and information to the right people at the right time for optimized operations and smarter decision making.

IdentiQ makes HVDC and power quality assets more:

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- Sustainable and eco-efficient – by enabling comprehensive remote analysis and support and by digitalizing paper-based information on older installations
- Flexible – by adapting to continuously changing asset performance needs over the entire life cycle
- Secure – by complying with industry-leading cybersecurity standards and protecting all asset data and information from being misplaced or destroyed; and safer, by providing virtual training on on-site procedures, required clothing and evacuation routes before visiting a site.

Digitalization is essential to making electricity the backbone of the entire energy system and advancing a sustainable energy future for all. It is key to the integration of bulk and distributed renewables, as well as the electrification and decarbonization of sectors like transportation, industries and data centers; and empowering countries and companies to meet their carbon emission reduction goals.

IdentiQ integrates with a range of enterprise business systems, including Hitachi's Lumada platform and the Lumada suite of Asset and Work Management software, and together they provide system-wide visibility – from the site to the boardroom. IdentiQ is part of Hitachi Energy's ambition to drive the pace of digital and eco-efficient innovation in power grid technologies and accelerate the transition towards carbon-neutral energy systems. The launch builds on a year of powerful innovation from Hitachi Energy, including:

- Lumada Asset and Work Management – launched in January 2021, to enable asset-intensive industries to be more adaptive, collaborative, insightful and predictive. Lumada features technologies such as machine learning, artificial intelligence, advanced data analytics, hybrid cloud management and cybersecurity; and
- EconiQ™ – launched in April 2021, providing an eco-efficient portfolio of products, services and solutions that deliver an exceptional environmental performance compared to conventional solutions.

Both portfolios are integral to Hitachi Energy's Sustainability 2030 strategic plan, which draws on the UN's Sustainable Development Goals to deliver social, environmental and economic value.

Note:

(1) A digital twin is a virtual representation that is designed to accurately reflect a physical asset or system, providing insight into the systems' performance or lifecycle.

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(2) IdentiQ™ stands for accuracy, intelligence and quality.

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.
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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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