

## Hitachi launches HMAX Energy, a pioneering AI-powered service and solution suite for critical energy infrastructure

- Data-driven services and solutions increase operational efficiency, strengthen grid reliability and securely extend asset life across the energy value chain - including utilities, renewables, industries and data centers
- HMAX Energy leverages proven reference cases capable of reducing revenue loss from equipment breakdowns by up to 60% through rapid emergency response and failure prevention



**Zurich, March 23, 2026** - Hitachi, Ltd. (TSE:6501, "Hitachi") - Hitachi Energy, a global leader in electrification, today announced the launch of **HMAX Energy**, an AI-powered suite of services and solutions designed to safeguard critical energy infrastructure while enabling operational efficiency. Delivered through trusted customer partnerships, HMAX Energy optimizes planning, prediction, and prevention – strengthening energy security and resilience.

The electrification of many industries and the rise of new power-intensive sectors are accelerating the need to expand and modernize the power grid - the one trillion-dollar investment of our time<sup>\*1</sup>. In most countries, much of the grid infrastructure has already exceeded its expected lifetime and was not designed to meet today's demands<sup>\*2</sup>. The sector also faces a major constraint: supply chains for grid equipment are under severe pressure. As a result, increasing the availability and extending the lifetime of existing assets has never been more critical, making partnerships more important than ever.

\*1 [COP30: Clean Energy Grid Investment Target Increased to USD 148B](#)

\*2 [IEA Report: Electricity Grids and Secure Energy Transitions](#)

To meet these demands, Hitachi Energy has launched HMAX Energy - the latest addition to Hitachi's HMAX portfolio of AI solutions for social infrastructure. **HMAX by Hitachi** spans Energy, Mobility, and Industry, and is a realization of its Lumada 3.0 strategy.

**HMAX Energy offerings deliver impact by combining data, AI & deep-domain expertise**

**HITACHI**

**Plan**  
**Optimizing asset lifecycle and operational efficiency with data-driven insights:**  
Enabling operations and maintenance teams to make informed decisions and plans based on AI-powered data model recommendations

**Predict**  
**Detecting issues early with asset monitoring:**  
Analyzing connected assets and environmental data to identify early signs of wear and flag unusual behavior

**Prevent**  
**Acting proactively to reduce risk and extend asset life:**  
Regular health checks and AI-enhanced performance and simulation models, supported by expert field teams, maximizing the remaining life of critical equipment

Covering primary energy infrastructure equipment from products, such as switchgear and transformers, to entire substations as well as complex HVDC systems and power quality solutions

HMAX Energy combines deep-domain expertise and leading AI capabilities across the entire value chain, covering primary energy infrastructure equipment from products, such as switchgear and transformers, to entire substations as well as complex HVDC systems and power quality solutions. Designed to be flexible to customers' technology choices, HMAX Energy's modular and secure offering is structured across three pillars:

- **Plan - Optimizing asset lifecycle and operational efficiency with data-driven insights:** Enabling operations and maintenance teams to make informed decisions and plans based on AI-powered data model recommendations.
- **Predict - Detecting issues early with asset monitoring:** Analyzing connected assets and environmental data to identify early signs of wear and flag unusual behavior.
- **Prevent - Acting proactively to reduce risk and extend asset life:** Regular health checks and AI-enhanced performance and simulation models, supported by expert field teams, maximizing the remaining life of critical equipment.

HMAX Energy builds on strong reference cases, demonstrating that fast emergency response and the prevention of costly failures and repairs can reduce revenue loss from equipment breakdowns by up to 60 percent. Through early detection, HMAX Energy can also reduce transformer failures by 50 percent and repair costs by up to 75 percent, supporting greater operational efficiency and grid availability<sup>\*3, \*4</sup>.

\*3 Hitachi Energy: TXpert™ Digital Transformer Ecosystem

\*4 [Hitachi Energy: Building the Global Service Leader](#)

“Today’s aging grid is under unprecedented pressure and faces multiple challenges simultaneously, such as soaring energy demand, increasing complexity, supply chain constraints, and workforce shortages,” said **Wolf Mueller, Managing Director, BU Service, at Hitachi Energy**. “With HMAX Energy, we are partnering with customers to safeguard critical infrastructure, anticipate failures earlier, and keep electricity reliable.”

From infrastructure design and construction to operations and service, HMAX Energy builds on technologies already proven in the field. One example is the use of digital twins like IdentiQ® – part of HMAX Energy – for high-voltage direct current (HVDC) systems, which can reduce incident response times by up to 90 percent\*<sup>5</sup>.

\*5 [Hitachi Energy: Building the Global Service Leader](#)

Baltic Cable, one of the world’s longest subsea HVDC links, has implemented a digital twin data platform for its HVDC system. The platform brings together asset information, analytics, and operational data in a clear visual interface, providing a real-time view of the system’s status, lifecycle, performance, and potential future conditions.

**Jan Brewitz, Technical Director, Baltic Cable**, commented: “Baltic Cable is committed to an interconnected Europe with secure, affordable, and sustainable energy for all. This strategic collaboration is enabling us to manage our own operations with greater precision while strengthening its resilience for the decades ahead.”

Meanwhile, ERG, one of Italy’s leading renewable power operators, has digitalized a hybrid switchgear, by monitoring its operational parameters on-site, boosting asset availability and overall performance. The monitoring solutions gathers and analyzes all switchgear performance data which is then evaluated by Hitachi Energy's Collaboration Center in Lodi, Italy, a strategic service hub that delivers 24/7 product expertise and real-time support, facilitating condition monitoring and a proactive maintenance strategy for ERG with a 35 percent reduction in time spent on site inspection activities\*<sup>6</sup>.

\*6 [Hitachi Energy: Building the Global Service Leader](#)

**Francesco Ingrassia, Head of Maintenance for South of Italy and Islands, ERG**, commented: “The use of digital monitoring – as part of HMAX Energy – increases asset availability and overall performance and is an essential part of our maintenance strategy.”

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#### **About Hitachi, Ltd.**

Through its Social Innovation Business (SIB) that brings together IT, OT (Operational Technology) and products, Hitachi contributes to a harmonized society where the environment, wellbeing, and economic growth are in balance. Hitachi operates globally in four sectors – Digital Systems & Services, Energy, Mobility, and Connective Industries – and the Strategic SIB Business Unit for new growth businesses. With Lumada at its core, Hitachi generates value from integrating data, technology and domain knowledge to solve customer and social challenges. Revenues for FY2024 (ended March 31, 2025) totaled 9,783.3 billion yen, with 618 consolidated subsidiaries and approximately 280,000 employees worldwide. Visit us at <https://www.hitachi.com>.

## **About Hitachi Energy**

Hitachi Energy is a global technology leader in electrification, powering a sustainable energy future with innovative power grid technologies with digital at the core. Over three billion people depend on our technologies to power their daily lives. With over a century in pioneering mission-critical technologies like high-voltage, transformers, automation, and power electronics, we are addressing the most urgent energy challenge of our time – balancing soaring electricity demand, while decarbonizing the power system. With an unparalleled installed base in over 140 countries, we co-create and build long-term partnerships across the utility, industry, transportation, data centers, and infrastructure sectors. Headquartered in Switzerland, we employ over 50,000 people in 60 countries and generate revenues of around \$16 billion USD.

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