**Hitachi Energy showcases the world’s first eco-efficient 420 kV circuit-breaker at CIGRE Session 2022 in Paris**

**Breakthrough technology unlocks the widest range in eco-efficient switchgear applications and accelerates the energy transition**

**30 August 2022:** Hitachi Energy today unveiled the world’s first eco-efficient 420-kilovolt (kV) circuit-breaker1 in conjunction with [CIGRE Session 2022](https://www.hitachienergy.com/about-us/events-and-webinars/2022/09/cigre-session-2022). This breakthrough technology marks a significant milestone in its accelerated [EconiQ™ high-voltage portfolio roadmap](https://www.hitachienergy.com/news/press-releases/2021/08/hitachi-abb-power-grids-announces-econiq-high-voltage-roadmap-at-cigre-2021) that was announced at CIGRE Session 2021.

For over two decades, the company has been investing in eco-efficient alternative solutions to sulphur hexafluoride (SF6) including the world’s first 170 kV eco-efficient gas-insulated switchgear (GIS). The EconiQ high-voltage portfolio uses a game-changing technology that eliminates sulfur hexafluoride (SF6), a greenhouse gas. Over time, it has been successful in continuously increasing the voltage levels of its EconiQ high-voltage portfolio.

Today, the EconiQ 420 kV circuit-breaker marks a key milestone in the industry to transmit large amounts of electricity over long distances while eliminating significant volumes of SF6.

This innovation is the key enabler to achieving a wide range of EconiQ switchgear applications, and will be used in both dead tank breaker (DTB) and gas-insulated switchgear (GIS). The EconiQ DTB and GIS are expected to be released at the end of 2022, on track with the company’s roadmap.

“This 420 kV breakthrough is a demonstration of our technology that is reliable and scalable to reach ultra-high-voltage levels with the lowest carbon footprint,” says Markus Heimbach, Managing Director, High Voltage Products within Hitachi Energy. “We are enabling our customers and the industry as a whole to rapidly transition to eco-efficient solutions to advance a sustainable energy future for all,” he added.

EconiQ is Hitachi Energy’s eco-efficient portfolio for sustainability, where products, services and solutions are proven to deliver exceptional environmental performance. Hitachi Energy has placed sustainability at the heart of its Purpose and is advancing a sustainable energy future for all. Its high-voltage portfolio also includes [EconiQ Retrofill](https://www.hitachienergy.com/news/press-releases/2021/12/hitachi-energy-partners-with-national-grid-on-world-s-first-replacement-of-sf6-in-existing-high-voltage-equipment), another world’s first in replacing SF6 in existing high-voltage equipment and EconiQ gas-insulated current transformers. The EconiQ high-voltage technologies are widely adopted by key customers in Europe.

1 World’s first fully tested SF6-free 420 kV circuit-breaker where all relevant tests described in the IEC and IEEE standards for 63 kA, 5000 A, 50 and 60 Hz have been successfully performed.

ENDS.

**About Hitachi Energy Ltd.**

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 drives Social Innovation Business, creating a sustainable society with data and technology. We will solve customers' and society's challenges with Lumada solutions leveraging IT, OT (Operational Technology) and products, under the business structure of Digital Systems & Services, Green Energy & Mobility, Connective Industries and Automotive Systems. Driven by green, digital, and innovation, we aim for growth through collaboration with our customers. The company’s consolidated revenues for fiscal year 2021 (ended March 31, 2022) totaled 10,264.6 billion yen ($84,136 million USD), with 853 consolidated subsidiaries and approximately 370,000 employees worldwide. For more information on Hitachi, please visit the company's website at <https://www.hitachi.com>.

Contact:

Jocelyn Chang

Head of Media Strategy & Global Media Relations

Hitachi Energy Ltd.

+41 79 384 7775

[jocelyn.chang@hitachienergy.com](mailto:jocelyn.chang@hitachienergy.com)