

Hitachi Energy to accelerate sustainable mobility in Germany's biggest city

Grid-eMotion™ Fleet smart charging solution to help the City of Berlin reach its goal of a zero-emission bus fleet by 2030

Zurich, March 15, 2022 – Hitachi Energy has won an order from Berliner Verkehrsbetriebe (BVG), Germany's biggest municipal public transportation company, to supply its Grid-eMotion™ Fleet smart charging infrastructure to help BVG transition to sustainable mobility in Berlin, the country's capital.

Hitachi Energy will provide a complete Grid-eMotion Fleet grid-to-plug charging infrastructure solution for the next two bus depots to be converted in the bus electrification program. Hitachi Energy's solution offers the smallest footprint for both the connection, as well as low noise emissions and high reliability – three key requirements for bus depots in a densely populated urban environment, where space is limited and flawless charging is vital to ensure buses run on time.

The solution comprises a connection to the distribution grid, power distribution and DC charging infrastructure with charging points and smart charging systems. Hitachi Energy will perform the engineering and integrate, install and service the entire solution. The solution has a compact and robust design that requires less equipment than competing infrastructure, which results in a small footprint, lower operating and maintenance costs, and higher reliability. Typically, Grid-eMotion Fleet requires 60 percent less space and 40 percent less cabling than alternative charging systems; it also provides superior overall system reliability.

"We are delighted to help the City of Berlin in its transition to quiet and emission-free transportation and a sustainable energy future for the people of this iconic capital," said Niklas Persson, Managing Director of Hitachi Energy's Grid Integration business. "We feel the urgency and have the pioneering technology and commitment to advance sustainable mobility, thus improving the quality of life of millions of people."

BVG operates Germany's biggest city bus fleet of around 1,500 vehicles, which it aims to make completely electric and emission-free by 2030. This requires the installation of charging infrastructure in its large network of bus depots.

About Grid-eMotion

Grid-eMotion comprises two unique, innovative solutions - Fleet and Flash. Grid-eMotion Fleet is a grid-code compliant and space-saving grid-to-plug charging solution that can be installed in new and existing bus depots. The charging solution can be scaled flexibly as the fleet gets bigger and greener. It includes a robust and compact grid connection and charging points, and is also available for commercial vehicle fleets, including last-mile delivery and heavy-duty trucks that require high power charging of several megawatts. Grid-eMotion Flash enables operators to flash-charge buses within seconds at passenger stops and fully recharge within minutes at the route terminus, without interrupting the bus schedule.

Both solutions are equipped with configurable smart charging digital platforms that can be embedded with larger fleet and energy management systems. Additional offerings from Hitachi Energy for EV charging systems consist of e-mesh™ energy management and optimization solutions and Lumada APM, EAM and FSM solutions, to help transportation operators make informed decisions that maximize their uptime and improve efficiency.

In the past few months alone, Hitachi Energy has won orders from customers and partners all over the world for its smart charging portfolio – a sign that Grid-eMotion is changing the e-mobility landscape for electric buses and commercial vehicles. Grid-eMotion solutions are already operating or under development in Australia, Canada, China, India, the Middle East, the United States and several countries in Europe.

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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.

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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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