FOR IMMEDIATE RELEASE

Hitachi ABB Power Grids and Yinlong Energy collaborate to make urban bus transportation green and cities carbon neutral

The combined offering provides urban transportation operators with a complete, one-stop shop e-mobility solution to reduce city air and noise pollution

Signing ceremony of the memorandum by Mostafa Al Guezeri, Managing Director Gulf, Near East & Pakistan, Hitachi ABB Power Grids (3rd from the right) and Venkat P., Managing Director, Yinlong Energy Middle East (4th from the right)

Zurich, 16 March, 2021 – Hitachi ABB Power Grids today announced it has signed a memorandum of understanding with Yinlong Energy, one of the world's largest manufacturers of electric buses, to help cities speed up their transition to emission-free electric bus transportation and cleaner city air.

By combining their technology leadership and expertise, the two companies offer customers a complete optimized e-mobility solution, comprising Hitachi ABB Power Grids' Grid-eMotion™ Fleet and Flash charging system infrastructure for public transportation and commercial vehicles and Yinlong's comprehensive portfolio of electric city buses.

"Cities worldwide are turning increasingly to electric buses to meet their carbon neutrality targets and sustainability goals for thriving, healthy urban communities," says Niklas Persson, Managing Director Hitachi ABB Power Grids' Grid Integration business. "Our combined innovative solutions and expertise enable urban transportation operators to switch cost-effectively from fossil fuels to emission-free electric buses to meet these objectives."

Initially, the two companies will focus their resources on helping cities and states in the Middle East achieve their urban e-mobility and emission-reduction ambitions, before

extending their joint offering to China and the rest of the world. Both the charging infrastructure and the buses meet the challenging climate and operating conditions of the region, where buses require large amounts of power for air conditioning and the charging infrastructure must withstand intense heat and even sandstorms.

“By teaming up with Hitachi ABB Power Grids we are jointly creating the first one-stop shop smart e-mobility solution in which the charging infrastructure is fully optimized with the energy needs and operating conditions of the buses,” says Venkat P., Managing Director Yinlong Energy Middle East. “Our joint solution enables transportation companies to plan, operate and manage their e-fleet optimally and efficiently.”

Grid charging infrastructure is the key to keeping electric buses running for as long as possible each day, without having to take them off the road for recharging and deploy replacement buses and drivers, which increases operating costs significantly.

Grid-eMotion comprises two uniquely innovative solutions - Fleet and Flash - which meet these requirements. Grid-eMotion Fleet is a grid-code compliant and space-saving grid-to-plug charging solution that can be installed in existing depots and scaled flexibly as the fleet gets greener. 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. Additional offerings consist of charging hardware, control software and services including Hitachi’s Lumada APM, EAM and FSM solutions, to help transportation companies make informed decisions that maximize their uptime and improve efficiency. e-mesh™ EMS is also used to manage and enhance the charging infrastructure, including data on bus charging and energy storage.

The global fleet of urban electric buses is forecast to grow significantly from around 500,000 today, most of which are in China, to 3-5 million in 2030 according to the latest scenarios of the International Energy Agency*1.

*1 Source: https://www.iea.org/reports/global-ev-outlook-2020

Notes to the Editor:

Grid-eMotion features Lumada Asset Performance Management (APM), Lumada Enterprise Asset Management (EAM) and Lumada Field Service Management (FSM) - applications with deep domain expertise augmented by Hitachi’s Lumada Industrial IoT platform.

About Hitachi ABB Power Grids Ltd.

Hitachi ABB Power Grids is a global technology leader with a combined heritage of almost 250 years, employing around 36,000 people in 90 countries. Headquartered in Switzerland, the business serves utility, industry and infrastructure customers across the value chain, and emerging areas like sustainable mobility, smart cities, energy storage and data centers. With a proven track record, global footprint and unparalleled installed base, Hitachi ABB Power Grids balances social, environmental and economic values. It is committed to powering good for a sustainable energy future, with

pioneering and digital technologies, as the partner of choice for enabling a stronger, smarter and greener grid. https://www.hitachiabb-powergrids.com

About Yinlong

Yinlong Energy Limited is one of the world's largest manufacturers of Lithium Titanate Oxide (LTO) batteries which are in turn used in making their renowned Electric Buses, Electric Trucks and Energy Storage Systems (ESS). Yinlong's LTO batteries have earned a global reputation for being the world's safest and fastest charging lithium batteries that are best suited for flash charging the buses at bus stops on the route and for high power ESS. With more than 30,000 e-buses operating in cities across China, Taiwan, Hongkong, USA, Norway & Singapore, Yinlong's product portfolio of urban e-buses covers a wide spectrum of customer requirements for passenger capacity and route optimization.

In January 2010, Yinlong, China acquired ALTAIR NANO (US) – a leading innovator of LTO battery technologies with over 20 years of industry experience.

As innovators, Yinlong continues to forge ahead with its efforts to expand boundaries of the Green Energy technologies for electric mobility and energy storage solutions (ESS) with the aim of having a lasting positive impact on climate change and environment. Yinlong has been steadfast in its commitment for sustainable development through

green energy with technology and material innovation leading to the emergence of Yinlong of LTO (Lithium Titanate Oxide) batteries as the benchmark for the Lithium battery industry. https://www.yinlong.me

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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.
