

For immediate release

Lion Electric Announces Successful Electric School Bus Vehicle-to-Grid Deployment with Con Edison in New York

Leading Medium and Heavy-Duty Electric Vehicle Manufacturer Showcases Bidirectional Charging Technology in New Video

MONTREAL, December 14, 2020 — The Lion Electric Company (Lion), an innovative manufacturer of purpose-built all-electric medium and heavy-duty urban vehicles, is pleased to announce that it has been successful in using its electric school buses to supply electricity back to Con Edison utility customers, as part of the company’s vehicle-to-grid (V2G) pilot deployment in White Plains, New York.

A new video highlighting the project can be seen here: https://youtu.be/wAiFLP43_rA

The project, which began in 2018 in partnership among Lion, Nuvve, White Plains School District and National Express, is known by the company to be the first successful deployment in the state of New York of a vehicle-to-grid pilot, whereby electricity flows from electric school buses back to the grid – marking a significant milestone in advancing V2G technology in North America. As a result of the deployment, Con Edison is now able to successfully transmit energy from the LionC school buses of the White Plains School District back into the grid, which energy can then be distributed to customers aided by Nuvve’s V2G technology.

The success of this initial V2G pilot deployment is significant as it serves as an example of how school buses – which are ideal for V2G integration due to their daily use patterns and overnight storage – can be used to sell power back to the grid when demand for energy is high, saving operators money and contributing to the condition of the grid. As such, all of Lion’s buses and heavy-duty vehicles come equipped standard with V2G technology onboard, providing new ROI opportunities for its customers to unlock and realize.

As governments around the globe pursue increasingly ambitious carbon neutrality goals based largely on renewable energy sources and zero-emission transportation, V2G integration becomes an increasingly important tool in balancing grids – especially when taking into account the high peak supply inherent to renewable energy sources.

“V2G has been a trendy word in the EV industry for many years, but now we have proven that V2G is real thanks to our great partners at Con Edison, Nuvve, White Plains School District and National Express. This great project is the result of exceptional

teamwork and innovation between the partners,” said Marc-Andre Page, Vice President of Commercial Operations at Lion Electric. “This important milestone for V2G outlines the cooperation required between utilities, fleet operators, school districts and regulatory organizations to successfully implement a project of this scale. Lion is very proud of this first successful V2G deployment and is equipped to support the rollout of other similar projects throughout North America.”

The V2G charging and discharging takes place at a depot in North White Plains, where the buses remain plugged into a charger when not in use. The batteries are charged when demand for power is low, and the chargers are programmed to reverse the power flow into the grid at times when the buses are not in operation. By charging when demand and thus the price for electricity is low and discharging when demand is high, operators can save money on energy costs for their fleet.

The fleet of five LionC buses are operated for the school district by National Express, which also pays for the energy costs during the school year. Con Edison, the New York State Energy Research and Development Authority and National Express collaboratively contributed to the purchase of the electric bus fleet, while Lion aided in the project design.

“We think electric school buses may provide an opportunity to achieve two of our company’s goals, which are reducing carbon emissions, and maintaining our industry-leading reliability,” said Brian Ross, Con Edison’s manager for the project. “We are innovating to help our state and region achieve a clean energy future in which electric vehicles will have a big role.”

“Our V2G software platform is designed to deliver grid services such as those to Con Edison from electric school buses,” said Gregory Poilasne, chairman and CEO of Nuvve Corp. “The electric buses provide a cleaner environment for communities and help lower CO2 emissions while ensuring that driving energy needs are met every day.”

“Our operators are dedicated to enabling the success of school bus electrification and V2G for the White Plains School District, with safety and reliability remaining as our top priorities,” said Charlie Bruce, SVP of Business Development at National Express.

All of Lion’s vehicles are purpose-built for electric propulsion from the ground up, and are manufactured at Lion’s North American facility, which has a current capacity to produce 2,500 electric vehicles per year. Over the last decade, Lion has established itself as a leader in the all-electric school bus industry, having delivered over 300 all-electric school buses in North America with over 6 million miles driven since 2016.

About Lion Electric

[Lion Electric](#) is an innovative manufacturer of zero-emission vehicles. The company creates, designs and manufactures all-electric class 5 to class 8 commercial urban trucks and all-electric buses and minibuses for the school, paratransit and mass transit segments. Lion is a North American leader in electric transportation and designs, builds and assembles all its vehicles' components, including chassis, battery packs, truck cabins and bus bodies.

Always actively seeking new and reliable technologies, Lion vehicles have unique features that are specifically adapted to its users and their everyday needs. Lion believes that transitioning to all-electric vehicles will lead to major improvements in our society, environment and overall quality of life.

Transaction with Northern Genesis

On November 30, 2020, Lion announced that it had entered into a business combination agreement and plan of reorganization pursuant to which, subject to the satisfaction of customary closing conditions, a wholly-owned subsidiary of Lion will merge with Northern Genesis Acquisition Corp. (NYSE: NGA), a publicly traded special purpose acquisition company focused on a commitment to sustainability and strong alignment with environmental, social and governance principles. Upon completion of the transaction, Lion is expected to be listed on the New York Stock Exchange (NYSE) under the new ticker symbol "LEV".

Lion Electric, The Bright Move

TheLionElectric.com

###

Contact:

Patrick Gervais
Lion Electric
Vice President of Marketing and Communications
Patrick.Gervais@thelionelectric.com
514-992-1060