HOW THE COUNTRY’S FIRST ELECTRIC STREET SWEeper SETS THE TONE FOR SANITATION DEPARTMENTS’ USE OF CLEAN ENERGY
New York City Department of Sanitation Introduces All-Electric Street Sweepers in Brooklyn

Supplying customized powertrain components to Global Environmental Products (GEP), a San Bernadino, CA-based manufacturer of specialty vehicles, US Hybrid designed, developed, and deployed the propulsion system for the country’s first battery-operated, all-electric street sweeper (eSweeper). This project replaced existing diesel engines with a battery powered electric drive, with a range of 8 hours between charges.

The bulk of the fuel consumption for these vehicles occurs during the sweeping operation. The GEP/USH Street sweepers utilize an all electric drive sweeping function. US Hybrid’s customized eSweeper powertrain components provide zero emissions operation and triple the energy efficiency.

Technical Overview of the Electric Street Sweeper:

The eSweeper is equipped with a 20kW on-board charger with standard SAE-J1772 interface. A single, overnight charge will allow for more than 8 hours of operation. A higher power charger is optional to reduce charge time and provide longer shift operation.

Waste360

It is estimated that the all-electric street sweeper will save 89 metric tons of carbon emissions, or the equivalent of taking 19 cars off the road for one year, over the lifetime of the vehicle.”