

# New York City Transit Hybrid-Electric and Natural Gas Buses



## Background

The Metropolitan Transportation Authority - New York City Transit (MTA - NYCT) has made the use of clean-fuel technology one of its top priorities. Although MTA - NYCT is committed to environmentally sound transportation systems, the incremental cost of these more efficient technologies can be a deterrent. To help implement its goal of using clean-fuel technology in its buses and vehicles, MTA - NYCT participated in the New York State Energy Research and Development Authority's (NYSERDA) Clean-Fueled Bus Program. MTA - NYCT received over \$10.2 million in funding for the incremental cost of new buses containing clean-fuel technology.

## Initiative

The community in which these buses operate has been prone to high levels of air pollution over many years. NYSERDA funding has made possible the purchase of 192 compressed natural gas (CNG) buses and 91 diesel hybrid-electric buses that significantly reduce emissions while increasing the fuel economy of the vehicles. Lower service intervals also help reduce maintenance costs. The clean-fuel technology makes the environment cleaner while reducing our dependence on foreign oil.



In addition to providing environmental benefits to the community, these clean air buses promote the benefits of alternative-fuel vehicles in the New York metropolitan area. Drivers, passengers, and the public now perceive hybrid-electric and CNG buses positively, and drivers report that passengers are impressed with the new technology. The MTA - NYCT is committed to purchasing these environmentally sound buses in the future, as it works with NYSERDA in providing cleaner air for the residents, workers, and those who visit New York City.



## Results

NYSERDA's funding of over \$10.2 million will help MTA - NYCT realize:

- displacement of 10,250,968 gallons of diesel over the lifetime of the vehicles
- maintenance time and cost savings associated with bus maintenance up to 50% increased fuel economy

Emission reductions over the lifetime of the vehicles include:

- 1,681,728 kg NO<sub>x</sub>
- 89,848 kg PM-10
- 144,434 tons CO<sub>2</sub>



For more information about these services, contact NYSERDA  
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