

Smart Communities In Focus

Spotlight: New York City, NY



New York City's smart community effort is aided through its partnerships with Consolidated Edison Company of New York (Con Edison), Current powered by GE, General Electric, the Metropolitan Transportation Authority Board, New Flyer, New York City Department of Transportation (NYCDOT), the New York State Energy Research and Development Authority, and Proterra.

Smart communities are built on smarter energy infrastructure and leverage the power of data and technology to improve sustainability, spur economic development, help drive efficiencies, and enhance the overall quality of life for their citizens. This summary focuses on specific opportunities where communities and electric companies can collaborate to make communities smarter, including projects that advance: Smart Street Lighting, Smart Transportation, Smart Buildings, Distributed Energy Resources, and Data Analytics and Intelligent Services.

New York City's Goals

- Modernize and better integrate NYC's electric infrastructure
- Make NYC's energy grid more environmentally friendly
- Increase access to 'smart' infrastructure for lower-income citizens
- Improve public safety and convenience with new technologies

What Makes New York City Smart?



Smart Street Lighting—*Saves energy, improves safety, and reduces traffic congestion.*

- New York City's Department of Transportation is in the process of retrofitting all 250,000 street lights with LED bulbs, and expects to save approximately \$6 million in energy and \$8 million in maintenance costs annually.
- New York City is partnering with General Electric, and its energy startup Current, to pilot GE's Intelligent Lamp Posts. The GE street lights are equipped with sensors and cameras to measure traffic and crowd movement, as well as provide relevant information to the public.



Smart Transportation—*Improves safety and mobility, reduces carbon footprint, and provides greater access to services.*

- In September 2017, New York City announced plans to invest \$10 million to develop fast charging hubs in every borough by the end of 2018 and 50 fast charging hubs citywide by 2020. Each hub will be equipped with 20 chargers.
- New York City is piloting the performance of all-electric buses. The city leased five electric buses from Proterra and is expected to lease another five from bus manufacturer New Flyer.
- Con Edison partnered with FleetCarma on a peak load reduction program called SmartCharge New York. Under the program, EV owners receive a free FleetCarma "C2" connected car device that tracks their driving and charging data. Owners who install and use their C2 device and charge their vehicles during off-peak periods earn SmartCharge rewards.



Distributed Energy Resources—*Improve sustainability, efficiency, and reliability.*

- Con Edison's Brooklyn Queens Demand Management Program allows the electric company to contract 52 megawatts (MW) of demand reductions and 17 MW of distributed energy resources, deferring a \$1.2 billion substation upgrade.
- As part of its Brooklyn Queens Demand Management Program, Con Edison provided incentives for battery, solar, and fuel cells at a moderate income, 625-unit building in Brownsville, Brooklyn, reducing energy costs at the building and adding resiliency to the community.
- The New York State Energy Research and Development Authority launched its NY Prize competition, which allocates \$40 million to spur microgrid development throughout the state. Three microgrid projects in New York City, located in East Bronx, Clarkson Ave, and Sunnyside Yard, have been awarded feasibility studies.
- New York City launched its Solarize NYC campaign in December, 2014, to increase access to community solar throughout the city. To date, more than 850 projects have been installed or are in development, saving residents and businesses more than \$2.9 million in costs.



Data Analytics and Intelligent Services—*Increase efficiency, improve city services, and enhance quality of life.*

- Con Edison is spending \$1.3 billion to install nearly 5 million smart meters by 2022, starting in Staten Island in 2017.

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