

Smart Communities In Focus

Spotlight: Atlanta, GA



Atlanta's smart community effort, known as SmartATL, is aided through its partnerships with Georgia Power, AT&T, Atlanta Beltline, Atlanta Streetcar, Build Your Dreams (BYD), Current, powered by GE, Georgia Tech, Hartsfield-Jackson International Airport, Metropolitan Atlanta Rapid Transit Authority (MARTA), 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.

Atlanta's Goals

- Expand mobility options and enable economic opportunities
- Make public and private travel faster, easier, and safer
- Improve commerce and attract employers
- Reduce environmental impacts of transportation
- Improve response time and reduce crime
- Improve citizen/business engagement

What Makes Atlanta Smart?



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

- Atlanta is in a bidding phase to upgrade 9,000 of 14,000 city-owned street lights.
- Georgia Power also is upgrading 36,000 street lights leased to the city with LED fixtures.
- The City of Atlanta, Georgia Power, Georgia Tech, AT&T, and Current, powered by GE, are partnering to pilot Current's new Internet of Things sensor platform for cities and are installing 1,000 wirelessly controlled LED lights in five Atlanta neighborhoods. Sensors will be networked and will provide information on traffic congestion, crime, and emissions. The first neighborhood pilot is the North Avenue Corridor project, operational in September 2017.



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

- Georgia Power installed 37 electric vehicle (EV) charging stations as part of a statewide initiative to build range confidence and spur EV adoption. A large percentage is located in metro Atlanta.
- Atlanta has 65 electric fleet vehicles in operation with a goal of 600 by 2020.
- More than 100 EV charging stations are at the Hartsfield-Jackson International Airport, and the city plans to install 200 more in future years.
- MARTA is expanding electrified transit services through the Atlanta Streetcar and the Atlanta Beltline, two projects focused on increasing neighborhood interconnectivity, reducing congestion, and promoting clean transportation.
- MARTA is partnering with Georgia Power in the installation of EV charging infrastructure.
- Georgia Power is working with MARTA to evaluate financial and environmental savings of fleet electrification.
- MARTA is exploring bus electrification and has completed demonstrations with Proterra and BYD.



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

- The scope of the North Avenue Corridor pilot project includes developing a scalable smart city data platform for traffic congestion and a range of other uses.
- Georgia Power fully deployed smart meters as of 2012.

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