

Smart Communities In Focus

Spotlight: Albuquerque, NM



Albuquerque's smart community effort is aided through its partnerships with Public Service Company of New Mexico (PNM), Albuquerque Rapid Transit, Build Your Dreams (BYD), Citelum, Ecoult/East Penn Manufacturing, Nissan, Northern New Mexico College, Sandia Laboratories, Ugo, University of New Mexico, and the U.S. Department of Energy.

Albuquerque's Goals

- Create new jobs
- Improve citizen well-being
- Introduce more efficient technology
- Develop new ways to cut costs

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.

What Makes Albuquerque Smart?



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

- Albuquerque partnered with PNM and Citelum to install 19,000 auto-dimming LED street lights that the city owns. A portion of these lights will include smart controls that allow for auto-dimming and remote notification of maintenance issues. PNM also is partnering with the city to convert 11,600 PNM-owned streetlights to solar-powered LED.
- As part of the LED streetlight upgrade, Albuquerque plans to install Internet of Things sensors on street lights for safety, city attractiveness, financial improvement, and sustainability.



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

- PNM partnered with Nissan to install five DC fast chargers in 2015. PNM continued that partnership with Nissan and a third-party networking provider Ugo in 2017 to install two more DC fast chargers. All chargers are networked to collect data and to be controlled remotely.
- Albuquerque purchased 18 electric buses from BYD for its new Albuquerque Rapid Transit system, providing new service along a critical artery to enhance underserved neighborhoods. These buses will be charged using rapid chargers that can also be controlled remotely.



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

- PNM's 500-kilowatt Prosperity Energy Storage Project is the nation's first solar and storage facility to be fully integrated into an electric company's energy grid and uses smart grid technology to advance renewable energy integration and reliability.



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

- Albuquerque has installed 550 solar powered downtown smart parking meters, free Wi-Fi, and a city portal with numerous applications to ease access to city services.

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