What Makes Kansas City Smart?

**Smart Street Lighting**—Saves energy, improves safety, and reduces traffic congestion.
- Kansas City is piloting 125 dimmable LED streetlights by Sensity.
- Kansas City has installed 122 video sensors along the streetcar route to track congestion. Shotspotter technology to detect, record, and triangulate the location of a gunshot is being considered as a future upgrade.
Smart Transportation—Improves safety and mobility, reduces carbon footprint, and provides greater access to services.

- KCP&L installed approximately 900 electric vehicle charging stations, including fast DC chargers, and plans to partner with the city of Kansas City to incorporate automatic billing and optimal time/rate charging control.
- The Kansas City Streetcar Authority installed a 2-mile electric “smart” streetcar downtown, and uses the system as a laboratory for future innovation.
- The Kansas City Area Transportation Authority and Ford partnered on a pilot project to test on-demand ride sharing commuter shuttle service.

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

- KCP&L matched $23M of federal funding to demonstrate a microgrid in a 2-square-mile area with 14,000 commercial and residential customers. The is part of the Green Impact Zone SmartGrid Demonstration.
- The demonstration includes smart meters, smart substation technologies, and a 1-megawatt, 1-megawatt-hour battery, inverter, and ground mount solar array. The Exergonix lithium polymer battery is connected to the energy grid, and lets KCP&L test how energy storage systems can shave peak load on a circuit, enable volt/VAR control, and support circuit islanding.

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

- Kansas City developed an open-access portal with live maps provided by Xaqt, now online and available to the public, which shows streetcar locations, available parking, and traffic conditions.
- Kansas City and Sprint partnered to develop free public WiFi across 50 downtown blocks, and will extend it to 180,000 more residents.
- Kansas City and Cisco partnered to develop 25 interactive kiosks showing entertainment, dining options, and city services.

Contacts

Kansas City Power & Light
Kim Winslow
Senior Energy Consultant
kimberly.winslow@kcpl.com
816-556-2153

Kansas City
Bob Bennett
Chief Innovation Officer
bob.bennett@kcmo.org
816-513-6546

EEI
Becky Knox
Senior Director, Retail Energy Policy
bknox@eei.org
202-508-5563