

Smart Communities In Focus

Spotlight: Salt Lake City, UT



Salt Lake City's smart community effort is aided through its partnerships with Rocky Mountain Power (RMP), Park City, Breathe Utah, Fourth Mobility, Giv Development, Idaho National Laboratory, Maverik, New Flyer, Salt Lake City International Airport, the U.S. Department of Energy, Uber, Utah Clean Cities Coalition, University of Utah, Utah State University, and the Utah Transit Authority (UTA).

Salt Lake City's Goals

- Promote adoption of electric transportation
- Enhance access to renewable energy
- Reduce city emissions
- Enhance energy efficiency

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 Salt Lake City Smart?



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

- Salt Lake City has successfully retrofitted half of the city's 15,505 street lights with LED lighting.



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

- RMP will use \$4 million awarded by the U.S. Department of Energy and \$10 million from its Sustainable Transportation and Energy Plan to accelerate the adoption of plug-in electric vehicles in the greater Salt Lake City area by developing electric highway corridors, advancing workplace charging, and incentivizing fleet conversions.
- In 2017, RMP partnered with public and private entities to install 110 charging ports across Salt Lake City and will install an additional 600 charge ports in the greater Salt Lake area over the next 3 years.

- Salt Lake City International Airport will deploy all-electric ground support equipment and infrastructure and install more than 100 electric vehicle charging stations at short- and long-term parking lots as part of a \$3 billion expansion.
- Salt Lake City is partnering with RMP, UTA, and the University of Utah to deploy five electric buses operating between the downtown transit hub and the University.
- Salt Lake City and RMP partnered with Forth Mobility to develop a ride hailing program for transportation networking company (TNC) drivers that includes building fast charging stations at key locations throughout the city, providing training to TNC drivers, and establishing a program to explore low-cost financing solutions for TNC drivers.
- RMP is working with the Giv Group to develop an electric vehicle car share program at its newly constructed all-electric multi-family affordable housing development in Salt Lake City. The cars will be available for residents to rent by the hour.



Smart Buildings—*Save energy and improve sustainability.*

- Salt Lake City International Airport's \$3 billion expansion will include a new LEED Gold-certified terminal with building automation for advanced lighting and heating/cooling systems, and energy efficient baggage handling equipment.
- RMP's wattsmart® Communities program supports Salt Lake City's Elevate Buildings and Project Skyline programs by providing technical expertise and cash incentives to help buildings save energy and reduce environmental impacts. In 2016, wattsmart provided \$25 million in energy efficiency incentives for the greater Salt Lake area.



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

- In 2016, Salt Lake City and RMP signed a joint clean energy cooperative statement setting a goal for the city to achieve 100-percent renewable energy for community-wide electricity supply by 2032.
- RMP launched the Subscriber Solar program in 2016, allowing customers to purchase renewable energy from a 20-megawatt solar resource. The project was fully enrolled by the time the resource was operational in 2017.
- RMP is implementing a 5-megawatt-hour battery storage system connected to a 650-kilowatt solar array to study the integration of solar and battery technologies while displacing the need to make system capital investments.

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