

Energizing Cities with Resilient Microgrids



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“The City of Fremont’s collaboration with local company Gridscape Technologies is a textbook example of a beneficial public/private partnership. Gridscape’s vision of piloting solar-battery microgrids at critical municipal facilities to showcase the company’s technology dovetailed with the City’s goals of reducing emissions, lowering utility bills, and bolstering resiliency. Gridscape secured State funding and worked closely with City staff to develop the necessary contracts, to secure permits, and to construct and put the microgrids in service without adversely impacting Fire Department operations. We are pleased to have been able to showcase the cutting-edge technology of a local firm while also securing many benefits for City operations and the community.”

- Mayor Lily Mei, City of Fremont



In the bustling urban landscapes of California, where the pulse of innovation and sustainability beats strong, Gridscape has emerged as a trailblazer in the realm of microgrids. These miniature power networks are changing the way our cities generate, distribute, and consume energy.

The California Context:

The California clean energy mandate, also known as SB100, requires the state to generate 100% of its electricity from clean, renewable sources by 2045. This ambitious goal cannot be achieved without a significant increase in renewable distributed energy resource. Microgrids play a significant role in this transition and hence the need for scaling up of microgrids.

Benefits of a local sustainable power plants (microgrid) for cities:

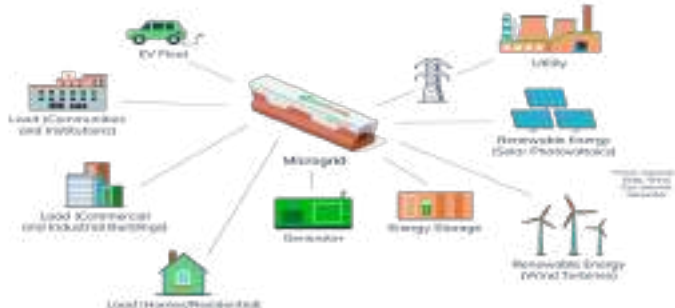
*'This is going to save the city money over the long haul. There's the savings from the energy perspective. There's also the resiliency component. This is a safety measure for the city as well. Too often climate action is framed as sacrifice — that we will need to give things up to have a healthy, livable planet, this project proves that it is not always the case'.
- Sean Elo-Rivera,
Council President (District 9)*

- 1. Cost Savings:** Cities are always working under strict budgets, microgrids with their localized energy systems, can reduce transmission losses, generate power using solar, leading to cost savings. Simultaneously, microgrid development generates green jobs, fostering workforce development within the state.
- 2. Resilient power supply:** Cities are populated and have critical facilities like fire stations, they need to have power supply 24x7 to keep various facilities running since they are critical community resources. A microgrid can provide cities resilient, consistent power supply.
- 3. Meet the climate action goals:** The global electricity demand will increase dramatically in the years to come, cities need to provide access to energy but also keep the carbon footprint low. Microgrids enable cities to reduce their carbon footprint and align with climate goals.
- 4. Fleet electrification:** Prepare the city to take the pressure from EV.

Reliable. Resilient. Renewable. ROI

Microgrids: Powering a Sustainable Future:

Microgrids are dynamic energy ecosystems that combine renewable energy sources, energy storage, and smart controls. Gridscape is the largest renewable energy microgrid developer and operator in California with over 65 microgrids in contact or deployed. Its vertically integrated microgrid solution is intended to serve as a locally produced sustainable power plant. These microgrids allow sites to become less reliant on the grid by using local sources of energy. They can provide as much as 90% independence from the grid energy, and thus reduce overall energy cost & provide backup clean emergency power during PSPS or other power disruption events.



- EnergyScope™ Dashboards*
- Load Management & Analysis
 - Renewable Self Consumption
 - Demand Charge Mgmt
 - Demand Response
 - OCPP Charger Management
 - Public EV Driver Payment Mgmt
 - Battery Life Performance
 - Extensive Reporting



Gridscape's Impact in Fremont - A Showcase of Resilience

Gridscape has successfully implemented a solar microgrid with battery storage at three vital fire stations. This project is the embodiment of resilience, ensuring uninterrupted power supply to essential services. It stands as a testament to Gridscape's unwavering commitment to urban resilience.

The project paved a way for Gridscape to commercialize the technology and solutions developed for mass market adoption and proliferation in the small to medium municipal and C&I market segments in California and beyond.

Fontana: Helping Critical Facilities Stay Online During Emergencies

As a part of a CEC funded project, a virtual wide-area urban microgrid (V-WAM) network will be deployed at five sites in Fontana (City Hall, Police Department, Senior Centre, Public Works, and Community Services). The total microgrid size is of 1550 kWh that will save energy cost and GHG emission as well as provide resilience to the facilities.

- The project will save approx. \$194,501 in energy costs annually.
- The project will also offset 981 MT of GHG annually.
- The project will reduce the peak demand and will contribute to additional cost savings.

The San Diego Microgrid Initiative - Lighting Up the Future

Gridscape, is embarking on new microgrid projects that will enhance San Diego's capacity to withstand power disruptions and further its clean energy mandate. The city expects to prioritize eight binding sites: three recreation centers, a fire, and three police stations.

About Gridscape

Gridscape, a leading and established name, specializes in creating and implementing future-proof solutions for renewable energy microgrids and fleet charging. These microgrids function as sustainable power plants, reducing reliance on the grid by utilizing local energy sources. With up to 90% independence from the grid, they cut energy costs and provide backup during disruptions. Gridscape's 'Product Centric' microgrid approach, integrated with EV charging, streamlines installation and lowers integration challenges. With microgrids spread all across California, Gridscape partners with notable clients like City of San Diego, EBCE, IWP (Denali), Fremont, SPBMI, and Chabot College.

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