

Energize Your
Manufacturing Future
with Local Sustainable
Power Plants

Manufacturing/
Processing

Background:

California's manufacturing and processing sector encompasses a wide range of industries, including automotive, electronics, food processing, and more. These industries rely heavily on a stable and uninterrupted energy supply for their day-to-day operations, which are often energy-intensive. With California leading the nation in clean energy policies, manufacturers in the state face mounting pressure to reduce their carbon footprint. The California Air Resources Board (CARB) has set aggressive targets for reducing greenhouse gas emissions, requiring businesses to adopt cleaner energy sources and energy-efficient technologies.

Challenges faced by the sector:

Energy Costs: California has some of the highest energy costs in the country, affecting the sector's competitiveness.

Reliability: Frequent power outages, often due to extreme weather events, can disrupt manufacturing processes and lead to significant financial losses.

Sustainability: Manufacturers are under increasing scrutiny to reduce their environmental impact and meet stringent emissions reduction targets.

How microgrids can help:

Energy Cost Reduction: By generating their own power through renewables and optimizing energy consumption, manufacturers can significantly reduce energy costs.

Enhanced Reliability: Microgrids seamlessly switch between the main grid and localized energy generation during outages, ensuring uninterrupted operations.

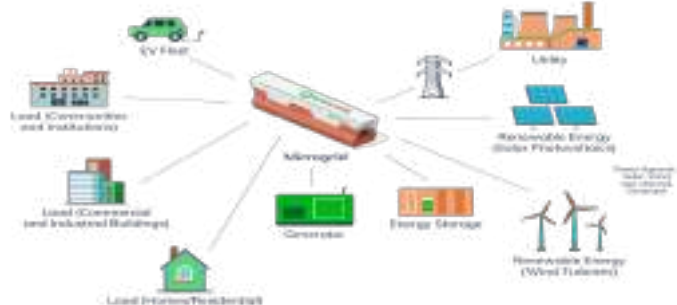
Sustainability: Gridscape Microgrids help businesses transition to cleaner energy sources, aligning with California's environmental mandates.

Grid Support: Microgrids can provide valuable grid services, such as demand response, contributing to grid stability and earning additional revenue for manufacturers.

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



Imperial Western Products (IWP)

Why microgrids make sense for IWP?

IWP transforms materials such as agricultural organic byproducts, bakery byproducts, and used cooking oil into animal feed, preventing nearly 700,000 tons of organic material from entering landfills each year. The installation of this cutting edge project will help Imperial Western Products' Coachella facility to reduce its total grid energy usage by more than 35 percent, reducing its GHG emissions by over one-third. The microgrid will also increase reliability by allowing the facility to continue operations during a utility blackout.

Benefits from the microgrid:

- 1. Savings:** Process oriented industries like Imperial Western Products are always in need for clean and continuous power. These companies face huge loss in productivity, mostly and equipment failure due to power cuts and variability in frequency and voltage. As the bills of such industries tend to be quite high this project would help in cost savings and also have marketing benefits.
- 2. Lowering GHG emissions footprint:** Such industries have a high GHG emission footprint. The microgrid can reduce the GHG emissions by one-third.
- 3. Microgrids Provide Financial, Resilience, and Social Benefits.**

The Project:

Gridscape has installed 847 kW of PV (rooftop and carports) and 1300 kWh microgrid at their facility to minimize the utility consumption and maximize the financial and environmental benefits.

1. The project will save approx. \$78,286 in energy costs annually.
2. The project will also offset 112 MT of GHG annually.
3. The project will reduce the peak demand and will contribute to additional cost savings.

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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