


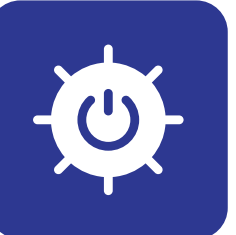

# A VIABLE OFF-GRID COMMUNITY ENERGY SOLUTION FOR THE COACHELLA VALLEY

## RESILIENT OFF-GRID SOLUTIONS

A Revolutionary Approach To Community Energy. Closed-loop power generation, storage and delivery microgrids for advanced applications.

The **GXG Energy** community energy approach leverages the principle of power aggregation to finance, develop & operate 100% microgrid-connected communities which deliver smart, resilient power to residential subdivisions and advanced business applications.

This tailored on-site power generation solution is designed for parcels which do not have access to the grid, it is California Title 24 compliant, CARB-compliant and Federal Investment Tax Credit (ITC) eligible.

-  **Energy Potential**  
We deploy tailored renewable energy installations for both private & public sectors.
-  **Net Zero**  
Integrating a range of zero-emission distributed energy resources for remote locations.
-  **Customized Installations**  
**GXG Energy** installs decentralized infrastructure systems to maximize environmental impact & financial savings.

## PROPRIETARY POWER SYSTEMS

A deep approach and comprehensive adoption of cutting-edge Hard-Tech and Soft-Tech systems which leverage proprietary **GXG Energy** devices and automation software.

**GXG Power Pavilion:** houses the liquid-cooled centralized battery storage, fuel cells or microturbines, converters, rectifiers, communication equipment, and other Balance of System devices. Designed with sound attenuating walls, glass & vents. Substations are 15-25 ft. high, and have standalone telecom capability.

**The GXG Cluster Box** deposits DC solar into the microgrid, and distributes AC power back to the buildings.

**The GXG Power Box** is able to transfer between power sources for each individual building in a seamless manner.

**GXG Energy Vehicle-to-Microgrid (V2MG) Control Units** located at designated parking spots and enclosed garages is capable of bi-directional charge and discharge of electric vehicles.



- ✓ Modular, scalable, and built with a keen eye for aesthetics
- ✓ Highly efficient and proprietary DC distribution networks

- ✓ Fully integrated AI-driven software to boost efficiencies
- ✓ Thorough study of local regulations in compliance with all AHJs


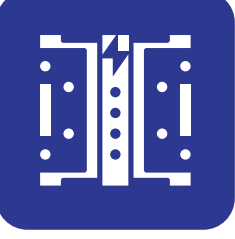

## SYSTEM SYNOPSIS

- ✓ An individualized rooftop solar power generation system.
- ✓ A centralized Battery Energy Storage System deployed on site, with gas-powered generators.
- ✓ A dedicated DC power distribution network.
- ✓ A resilient power supply

Delivering power **WHERE** and **WHEN** it is needed.

## POWER TECHNOLOGIES

Microgrid generation capacities are tailored to match both baseload as well as peaker demand.

-  **Solar & Storage**  
The Perfect Peaker  
The combination of photovoltaics and battery storage works wherever you are, is a superior demand response tool, and is very affordable.
-  **Fuel Cells**  
The Energy of the Future  
Whether we can access gas grids or haul and store resources in tanks, fuel cells can work with natural gas, biogas and hydrogen – the future of electrification.
-  **Geothermal**  
Natural Baseload  
A stable natural resource, where available, makes an excellent baseload generator from dry stream or hot water wells, most prevalently through a Flash Steam Plant.

## COACHELLA VALLEY

New developments in the Coachella Valley are currently facing difficulty connecting to the local power grid.

Accordingly, **GXG Energy** has rolled out a viable off-grid product in the Coachella Valley for single family residential subdivisions & advanced business applications to propel the development of new construction projects.

- ✓ Served by Imperial Irrigation District (IID), a Publicly Owned Utility
- ✓ IID serves both Coachella Valley and Imperial Valley with 500,000 residents
- ✓ IID serves 158,000 electric accounts, is the 6th largest electric utility in California
- ✓ IID Power Lease ends in 10 years
- ✓ IID has been hesitant to invest in new/upgraded energy infrastructure
- ✓ The region requires 4 GW of power generation + distribution in investment
- ✓ Jeopardizing the growth potential of the local economy







## PERSONALIZED COMMUNITY ENERGY

Promoting sustainable living may start with renewable power and the critical vs. non-critical loads discussion. A better understanding of water requirements, water recovery solutions and waste management, all of which affect the design of a community microgrid is what elevates the work to the next level.

The key to adopting an off-grid system is to take a holistic approach to the overall utility performance of the community, and make sure there are sufficient redundancies and protocols to supplant the traditional electric grid system. And do it in a cost-effective manner by integrating financing, operation, and automation packages.

## Net Energy Metering (NEM) 3.0

- 01**  Net metering – or NEM – allows you to earn credits for any excess solar electricity you send to the grid when your solar panel system generates more than you need.
- 02**  After years of deliberation, California regulators voted unanimously in December to approve California's third iteration of net metering, or NEM 3.0.
- 03**  Under the new tariff, NEM 3.0 significantly reduces net metering compensation rates for new California solar customers by about 75 percent.
- 04**  NEM 3.0 went into effect on April 14, 2023.

The issue is that Solar is obligatory for new build single family dwellings under the 2020 California Solar Mandate.

The compliance criteria is adding more complexity to the development process, and the costs borne predominantly by homebuilders and/or homebuyers in the residential sector.



Powering the Structures of the Future | Promoting Self Sufficiency | Effective Grid Participation



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GXG Energy Corporation specializes in the development of resilient microgrids for qualifying communities and businesses by delivering the finest quality of energy based on the principle of power aggregation, promoting self-sufficiency, and achieving mutual energy goals, with a keen eye on aesthetics.

For more information about GXG Energy microgrid features, visit our corporate website at [www.gxg.energy](http://www.gxg.energy)

