

MICROGRID KNOWLEDGE™

2023 CONFERENCE

LIGHTS ON!

May 16-17, 2023 | Anaheim, CA

OWNED &
PRODUCED BY:



PRESENTED BY:

MICROGRID
KNOWLEDGE™

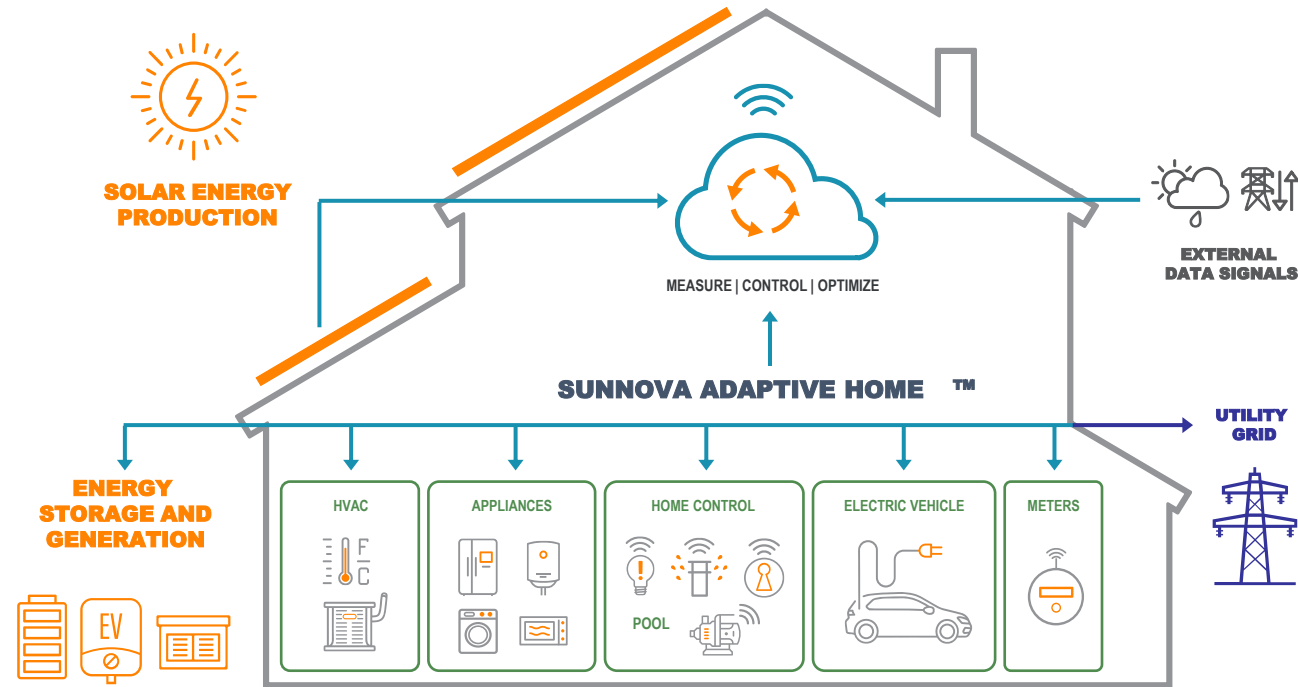
Microgrid Service Provider

Pathway to energy independence

1. Residential sector does not have sophisticated buyer system to optimize and manage their energy
2. No current pathway for residential microgrids to be developed, owned, and operated by third party service providers
3. Empower energy independence through enabling customers to produce, consume, and manage their electricity

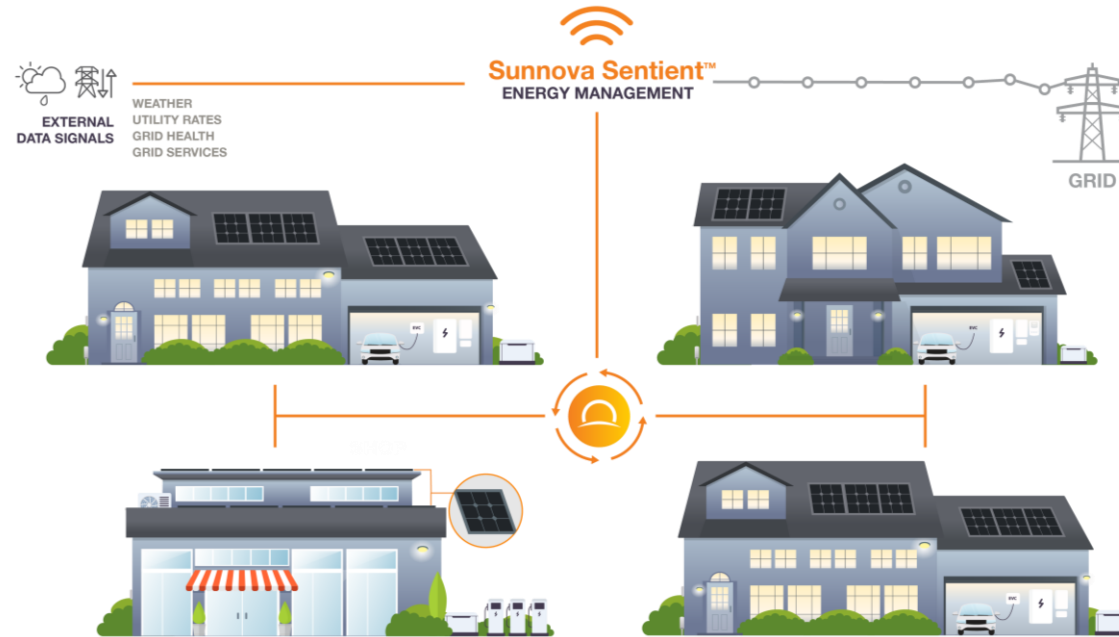


The Sunnova Adaptive Home™ creates solutions that integrate the use of solar, battery storage, EV charging, additional energy generation, control and management technologies to make clean energy even more affordable, reliable, and resilient.



The Sunnova Adaptive Home™ is not only able to produce and store energy, it also “adapts” by optimizing energy sources and consumption predictively and in real time, making intelligent adjustments based on current energy needs, solar production, stored energy levels, grid health, time of day, energy price signals, and other inputs.

New homes and developments offer the most economic path to creating residential microgrids with technology design optimized at the planning phase



Integrated

By unifying all Sunnova Adaptive Community™ technologies with real-time data on energy usage, grid status, utility rates, time of day, weather and more, customers get a holistic energy service through a single provider.

Resilient

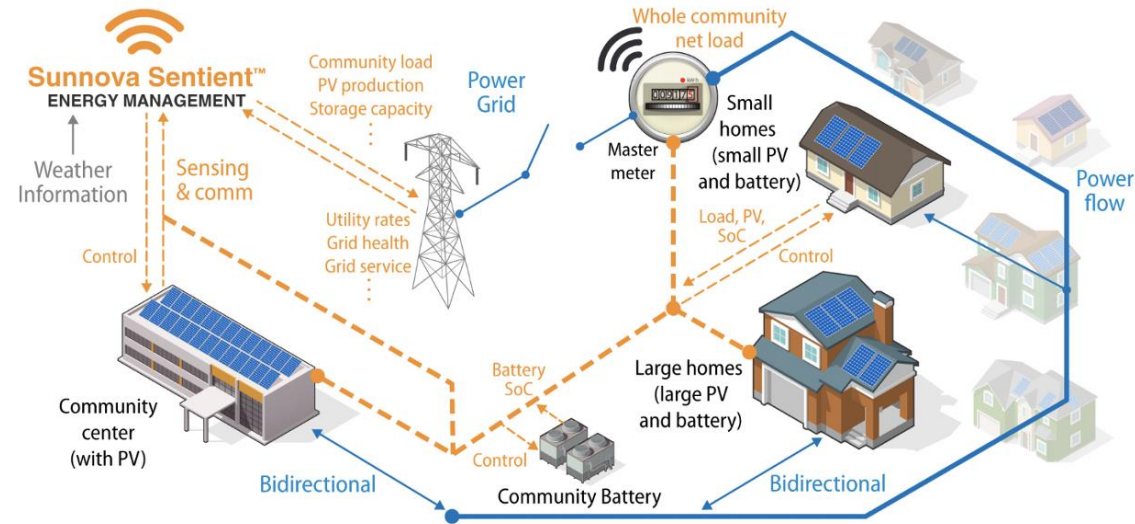
The Sunnova Adaptive Community™ provides unparalleled reliability by anticipating and preparing for outage events. It minimizes energy disruptions and empowers customers with the flexibility to manage their preferences.

Insightful

The Sunnova Adaptive Community™ would be powered by an intelligent energy management platform, which combines data insights, AI and machine learning to optimize and automate the energy ecosystem.

Illustrative Community Microgrid Operation

Within the community, information of each building's load, PV generation, and battery state of charge (SoC) is provided to an energy management system for planning and coordination



- During emergency operation and restoration, an intelligent energy management system will provide microgrid operators visibility of the microgrid's community assets and distributed energy resources (home PV systems and BESSs, electric vehicles, etc.) that can participate in automated energy restoration, as well as information on safety conditions prior to system restoration.
- When grid-tied, the community distributed energy resources provide grid support such as voltage/frequency regulation and Volt/VAR optimization.

Microgrid Service Provider

Jamie Charles

Manager, Grid Services Policy

Email: James.Charles@Sunnova.com