

MIRCOGRID

"Also known as a Virtual Power Plant."

What is a Supercapacitor Virtual Power Plant?

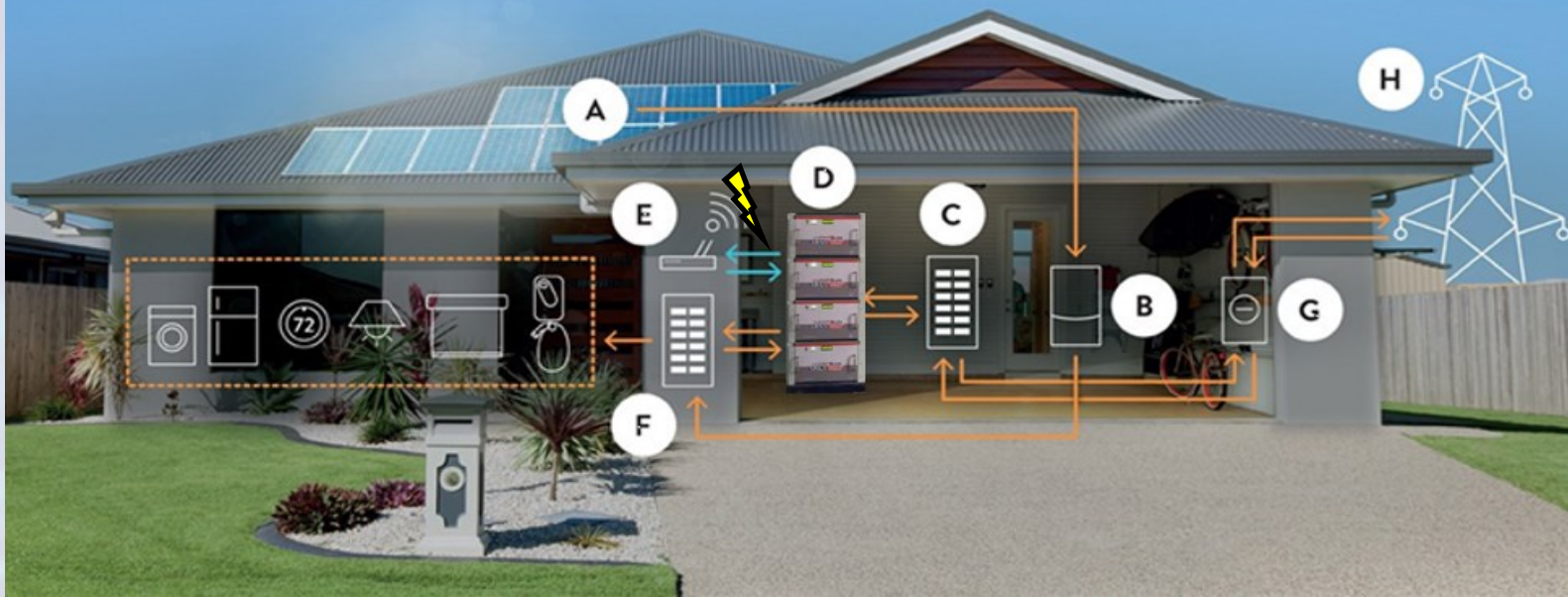
A Virtual Power Plant can be defined as a network of distributed energy resources (DER)—these including Supercapacitor Battery and solar panels—that all work together and communicate with one another as a single source of energy that can provide your house with 100% power if there is a grid outage or if you wanted to operate independent of the grid. The Supercapacitor Battery will operate for 25 years, generates no heat, up to 4 cycles per 24 hour period, non-toxic and non volatile.



Why Graphene Based Supercapacitor Batteries?

- 100% of the House can be powered with solar & supercapacitor with enough roof space.
- Over 25,000 units installed and operating around the world in harsh environments
- 25+ Year Life with projected Cycle Life of 1 million Cycles— No Degradation
- No Heat Generated / No Potential Chemical Hazards / Non-Toxic / Non-Volatile
- Battery Energy Management System with home automation interconnection capability
- Temperature Operating Range -22 Degrees F to 176 Degrees F
- Useable Capacity— 99% (Constant over Life)
- Warranty: 10 years

Residential Microgrid



How the Supercapacitor Battery works (Can power 100% your smart home with clean energy with available roof space).

A. Solar panels- Your solar panels turn sunlight into clean DC (direct current) electricity

B. Solar Inverter- Your solar inverter converts solar generated DC electricity into AC (alternating current) electricity that can power your home

C. Main electrical breaker box- AC electricity passes through your electrical panel to power devices in your home

D. Supercapacitor Battery -storage- Your Infusion Energy Supercapacitor Battery converts excess AC electricity to DC for storage in its battery modules. When you need it, the electricity is converted back to AC, day, night or during an outage

E. Supercapacitor-energy automation- Your supercap complements your solar and/or home automation system to power other smart devices in your home. Together they effectively manage and maximize how you use energy in your home without disrupting your lifestyle

F. Protected breaker box- A second breaker box (aka “protected loads panel”) is an additional electrical panel that distributes power to critical devices in your home in an outage from your supercapacitor battery

G. Electrical Meter- Your meter monitors and measures electricity used by your home and excess solar power fed into the electrical grid

H. Utility- Your utility keeps you connected to the local electrical grid ensuring you have access to grid power when you need it