

Peak Shaving

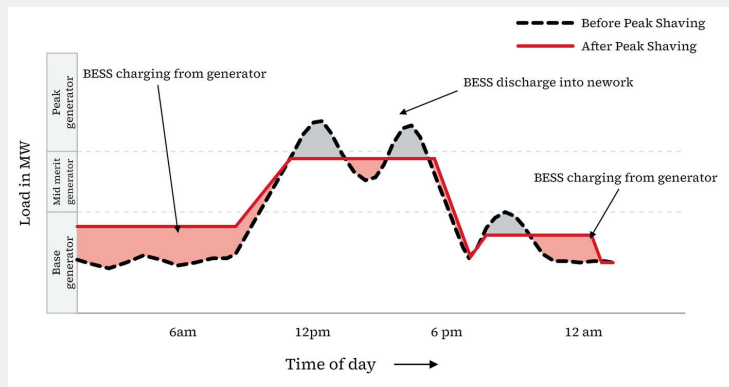
Lower demand charges and steadier operations for commercial and industrial facilities.



Why Peak Demand Costs So Much

Utilities charge for more than the total energy you use. A large part of the bill is based on your highest short-term power draw, your peak demand. That peak is often set by everyday events:

- Equipment starting together at shift change, batch changeover or after downtime
- Compressors, chillers, process heating and large motors cycling on at the same time.
- CNC machines, robotics or data-center racks ramping up together



Storage charges when load is low and discharges into the network at the peaks, so the utility never sees the spike.

A single spike can raise your demand charge for months. For many facilities, these charges make up **30–70% of the electricity bill**, so reducing the peak is one of the fastest ways to cut cost without slowing production.

Peak Shaving: The Practical Way to Save

Peak shaving uses on-site energy storage and smart controls to supply power during those short high-demand moments. Your facility still runs normally. The grid simply sees a lower peak. The result: lower demand charges, more predictable bills, and less strain on

equipment and the local grid.

The same system can also shift energy to use to cheaper times of day, improve power quality, and keep critical loads running during an outage, turning one investment into multiple sources of value.

The Benefits & The Payback

More reliable operations

with fewer power-related trips, scrap and unplanned stops

Faster ROI

through direct savings that appear on the next bill cycle, not years later

Room to grow

without immediately needing costly electrical upgrades or long utility wait times

Lower monthly bills

by cutting the demand charges that often dominate the utility invoice

Protection against rising rates

and future capacity or time-of-use charges

Two year ROI potential

Stack ITC incentives, repeatable peaks, and avoid demand charges

How CE+T America Delivers It

CE+T America provides the conversion platforms and turnkey microgrid systems that make peak shaving practical on real sites. Four product lines work together to store energy, respond in real time, and deliver clean, reliable power when it matters most.



Stabiliti

For plants that mix solar, batteries and the grid

Connects batteries, solar and facility power in one system. When demand spikes, it draws from storage so the utility never sees the full peak, and keeps critical loads running if the grid goes down.



Sierra

For sites that need to grow over time

A compact power system linking the grid, batteries and your most important loads. It automatically reduces peaks and can earn value by supporting the grid. Start small and add capacity as needs grow.



Prisma

For data centers and large storage projects

A high-efficiency modular system that grows with the facility. Add capacity in steps as rack density or production increases, without tearing out what you already have.



Watt2Go

For fast results when time or space is tight

Arrives ready to work on a standard skid and can be running in hours, not months. It stores energy, shaves peaks and provides backup power without a long construction project.

Capability Comparison

Capability	Stabiliti	Sierra	Prisma	Watt2Go
Peak Shaving / TOU	Yes: multiport ESS	Yes: grid services	Yes: high-efficiency & BESS	Yes: integrated EMS
Demand Response / Ancillary	Grid support ready	Freq. regulation, demand resp.	Market arbitrage participation	Frequency response
Grid - Forming Microgrid	Native (AC/DC hybrid)	Yes: hybrid setups	On/off hybrid modes	Full island + black start
Power Quality / PF Correction	Galvanic isolation, pure power	Clean bidirectional output	High-efficiency delivery	PF correction + IEEE 519
Typical Scale	30kW - 240 kW	1 - 2.7kW - 2MW	50 kW block - multi-MW	90-260 kW / 172-430+kWh
Best Fit	Hybrid AC/DC microgrids, C&I	Telecom, C&I, scalable sites	Data centers, AI, large BESS	Rapid / mobile / brownfield

Ready to quantify the opportunity at your site?

Contact CE+T America to schedule a technical discussion or site assessment.