



Battery Energy Storage: Keeping Power Reliable and Affordable

Battery energy storage systems store electricity when energy is abundant and deliver it later when homes, businesses and critical services need it most. By banking power for high-demand periods and displacing more expensive alternatives, battery storage makes electricity more reliable and more affordable for California communities.



Reliable Power When Communities Need It Most

Reliable electricity is essential for public safety, economic growth and everyday life. Battery energy storage helps strengthen local energy reliability by providing power when and where it is needed most.

Battery Energy Storage Strengthens Reliability

- Ensures reliable electricity around the clock for homes, businesses, hospitals, schools and emergency services.
- Provides backup power and reduces the risk of outages when other energy resources are unavailable.

Dependable Power During Emergencies

Extreme weather and growing electricity demand continue to strain California's energy system. Battery energy storage helps communities maintain dependable power when reliability matters most.

- Helps keep power flowing during heat waves, emergencies, extreme weather events and periods of high electricity demand.
- Supports emergency response and critical infrastructure, improving overall community resilience and preparedness.

Battery Energy Storage By the Numbers

3,400 MW

Battery energy storage supplied approximately 3,400 MW of electricity during California's record 2022 heat wave, helping avoid the rolling blackouts California suffered in 2020 when less energy storage was available.

21,000+ MW

California has enough energy storage to power about 21 million homes at a time.

4 YEARS

California has gone three years in a row without calling a "Flex Alert" for energy conservation – coinciding with battery energy storage capacity more than tripling in California since 2022.

20%

Batteries supplied about 20% of California's electricity during the grid's highest-demand hours in 2025.



Economic Benefits for California Families and Businesses

Keeping electricity affordable is one of California's biggest energy challenges. Battery energy storage helps reduce costs by storing cheaper renewable energy when it is abundant and delivering it when demand is highest.

Battery Energy Storage Cuts Energy Costs

- Stores lower-cost energy when supply is plentiful.
- Helps reduce reliance on the most expensive electricity sources.
- Stabilizes electricity costs for families and businesses.

Investing in Local Communities

Battery energy storage projects provide direct economic benefits to the communities where they are located.

- Creates good-paying local construction and skilled trades jobs.
- Generates tax revenue that supports schools and essential public services.
- Brings long-term private investment into local communities.
- Drives local economic growth while strengthening energy infrastructure.

Cleaner Energy That Works Around the Clock

Battery energy storage helps make renewable energy available whenever Californians need electricity, even when the sun isn't shining and the wind isn't blowing.

How Battery Storage Supports Cleaner Energy

Battery energy storage projects provide direct economic benefits to the communities where they are located.

- Stores excess solar and wind energy for later use, delivering clean energy when communities need it most.
- Reduces reliance on older, more polluting power sources.
- Ensures a reliable power supply, making California's transition to cleaner energy possible.