



# Commercial and industrial battery storage

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In the commercial and industrial sectors, power resiliency is not just a matter of convenience--it's a critical necessity. Facilities such as manufacturing plants, data centers, retail, hospitals, and large office complexes face unique challenges that make reliable power essential. Power outages can lead to significant downtime, equipment damage, and even safety hazards. Ensuring a continuous power supply is crucial for maintaining operations, protecting sensitive equipment, and safeguarding employee and customer well-being.

As part of a microgrid system, Battery Energy Storage Systems (BESS) play a crucial role in enhancing power resilience and efficiency. A BESS captures energy from various sources, accumulates this energy, and stores it in rechargeable batteries for later use. This stored energy is then available to provide backup power during outages, manage energy demand, and support other energy use cases, making BESS an indispensable component of a modern microgrid.

Commercial and industrial facilities are often large and complex, with intricate power needs. They operate around the clock, have high energy demands, and house critical systems that cannot afford interruptions. For instance, a data center's servers need constant power to prevent data loss, while a hospital's life-saving equipment must always be operational. These facilities must be prepared for unexpected power outages caused by severe weather events, natural disasters, equipment failures, or grid instability.

Commercial and industrial battery backup systems are energy storage solutions designed to provide uninterrupted power to facilities during outages. These systems store electrical energy and deliver it when the primary power source fails. They are integral to a facility's power management strategy, ensuring operations can continue smoothly even during grid disruptions.

## The Types of Facilities That Benefit from These Systems

### Integration into Existing Power Systems

Commercial and industrial battery backup systems are designed to seamlessly integrate with a facility's existing power infrastructure. They are connected to the primary power source and monitor its status continuously.

### Activation When the Power Goes Out

When the primary power source fails, the battery backup system automatically activates. This instant response ensures there is no interruption in the power supply, allowing critical systems to remain operational.



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## Providing Backup Power & Resiliency

Once activated, the battery system supplies power to essential equipment and systems, maintaining operations until the primary power source is restored. This capability significantly enhances a facility's resilience against power outages, minimizing the impact of such events.

PowerSecure hybrid microgrid solutions often include an on-site storage system, so that your facility can benefit from the following:

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