



BATTERY STORAGE OVERVIEW

Battery storage systems are growing in popularity as the technology improves, prices decline and cooperatives and their members recognize the benefits of energy independence, resiliency, renewable energy integration and financial savings. System installations are increasing in residential homes and businesses and at utility scale.

RESIDENTIAL BATTERY STORAGE

Homeowners are embracing battery storage in order to save money, have backup power during outages and pair with their solar photovoltaic (PV) arrays. When installing a battery storage system, homeowners should work closely with a contractor who can guide them on the best system for their house and safest installation option. They should also keep their cooperative in the loop as they move through the process.

COMMERCIAL AND INDUSTRIAL BATTERY STORAGE

Battery storage systems in commercial and industrial facilities allow a business to save money by navigating demand charges and time-of-use rates, maintain operations during an outage and capture energy generated by a solar PV array. A contractor will be needed to help a business decide which type of battery system is best for them, including battery chemistry, controller functionality, AC vs. DC coupling, and equipment size, shape and location. As with homeowners, businesses should keep their cooperative informed if they are pursuing battery storage.



UTILITY-SCALE BATTERY STORAGE

Utility-scale battery storage uses a group of batteries to store energy and can be connected to distribution/transmission networks (substations) or generation assets. It increases flexibility in power systems, supports the use of more variable sources of electricity, like solar PV and wind energy, and provides numerous other benefits. Integration of battery storage is continuing to increase as costs decrease and pilot projects prove successful.

To learn more, see the additional fact sheets about the benefits of battery storage for cooperatives, commercial and industrial businesses, and residential members.

- Battery Storage Solutions for Cooperatives
- Commercial and Industrial Battery Storage
- Residential Battery Storage

*This article was provided by Advanced Energy, a nonprofit energy consulting firm.
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