

A Simple, Elegant Design that Increases Energy Reliability

Battery Energy Storage System Basics

Similar to the batteries powering your daily life, like cell phones and laptops, battery energy storage systems store power for your home or business. They can be used to provide extra energy when there is high demand in your region, or to support the larger electrical grid during extreme weather events and other disruptions.

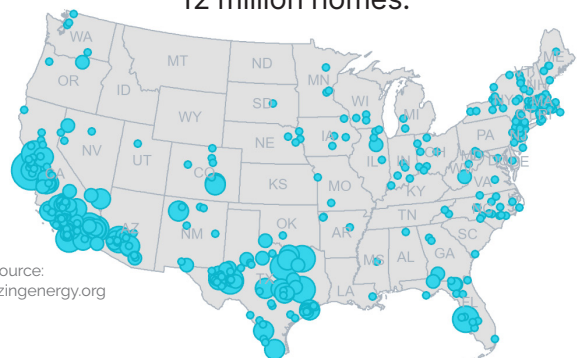


Operating Safely In Many Environments

Battery energy storage facilities are operating safely in both dense, urban centers and rural and remote areas as well as extreme environments like the arctic and desert.

The Future of Energy Infrastructure

Between 2021 and 2024, battery storage capacity in the United States has grown tenfold to 16,000 megawatts of installed storage capacity. This is enough to power approximately 12 million homes.



Data Source: visualizingenergy.org

www.nytimes.com/interactive/2024/05/07/climate/battery-electricity-solar-california-texas.html?smid=nytcore-ios-share&referringSource=articleShare

Common Household Items Powered by Lithium-ion Batteries



Cell phones



Tablets and Laptops



Electric toothbrushes



Power Tools

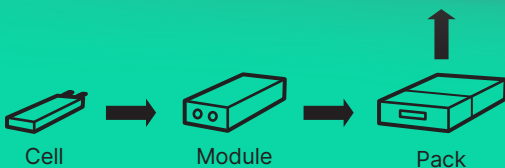
A Positive Community Investment

Since 2013, battery costs have dropped by over 80%, offering a cost-effective means to stabilize the energy grid and benefiting local communities where they're utilized. Energy storage projects bolster local economies without straining other governmental services, while maintaining minimal environmental impact with no emissions and a small footprint.

Energy, Economic and Environmental Benefits

- + Sustained local tax revenue
- + Cost-effective solution
- + Increased grid reliability
- + Minimal physical footprint
- + Zero emissions
- + Local, skilled construction workers
- + Thousands of jobs supported by the storage industry
- + Critical infrastructure investment

The Building Blocks of Battery Energy Storage



A grid-connected storage system is comprised of battery cells grouped into modules and packs contained in a battery enclosure. The enclosures are purpose-built and contain battery management, communications, safety and thermal management systems.