



# Largest energy storage systems

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Whether it be energy that powers smartphones or even fuelling entire cities, energy storage solutions support infrastructure that acts as a foundation to the world around us.

With demand for clean, reliable and efficient energy continuing to climb, companies pioneering innovative storage technologies have a spotlight shone on them to ensure the future and success of the energy landscape.

In this week's Top 10, Energy Digital takes a deep dive into energy storage and profile the world's leading companies in this space who are leading the charge towards a more sustainable energy future.

Acquired by Sunrun in 2020 for US\$3.2bn, Vivint Solar entered the home energy storage market in 2017 with a partnership with Mercedes-Benz Energy followed by another partnership with LG Chem. Known for its residential solar installations, Vivint has emerged as a notable player in the energy storage sector as it has expanded its offerings. Its energy storage systems complement solar panel installations which allow homeowners to store excess energy and provides backup power in the event of grid outages.

Thanks to its commitment to diversifying its portfolio of products and services, Vivint has quickly become a key player in the energy storage and residential energy solutions realm.

Chilean commodities producer Sociedad Química y Minera has significant operations in lithium -- primarily used in batteries for electric vehicles and energy storage systems -- as well as solar salt, which is used for thermal energy storage. It's involvement in lithium production is where the company has made significant strides in the energy storage space due to their integral role in energy storage systems. Thanks to its expertise in lithium extraction and processing, it is able to innovate and develop new lithium-based technologies which advance energy storage capabilities.

Battery storage and energy solutions systems from Johnson Controls allow for seamless integration with existing building technology systems. These utilise algorithms that provide for flexible and custom applications, the company says, such as demand management, frequency regulation and integration with renewables.

"Our customers working on solar or battery storage projects have historically faced challenges with funding and high costs, especially those in the education, healthcare and public housing industries," said Brandie Williams, Performance Infrastructure Business Development Director, West Region at Johnson Controls. "We're proud to showcase how dedicated Johnson Controls is to making efficiency and sustainability accessible for any customer."

Perhaps more known for small-scale batteries, Energizer plays a significant role in the energy storage sector.

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Thanks to its knowledge in batteries spanning back more than 100 years, its experience in consumer batteries and portable power solutions has positioned it as one of the leading companies in energy storage solutions, albeit on a more micro, everyday scale. When it comes to solar storage, its battery systems offer flexible storage options to support the powering of ever-increasingly power-reliant homes.

Particularly prominent in energy storage when it comes to residential and small-scale commercial markets, Enphase promotes energy storage as a longer-term investment. It supports customers on their energy storage journey through offerings such as the Enphase Energy System which combines solar, batteries and EV charging so customers can make, use, save and sell their own energy. The company's innovative technology, integrated energy management solutions and a focus on reliability and safety has positioned it as a leader in the energy storage sector.

Tesla has been growing its energy storage business in recent years. Established as a key player in the electric automotive industry, it has diversified its offerings to include battery storage -- now one of its strongest offerings. Tesla Energy's energy storage business has never been better. Despite only launching its energy storage arm in 2015, as of 2023 the company had an output of 14.7GWh in battery energy storage systems. Its portfolio includes storage products like the Powerwall and the Megapack.

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