



Large scale battery storage systems

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Moss Landing is in Monterey County, California, on the site of a gas-powered plant. It's owned by Vistra Energy (NYSE: VST), an Irving, Texas-based retail electricity and power generation company that owns the second-most energy storage capacity in the US.

Vistra today announced that it completed Moss Landing's Phase III 350-megawatt/1,400-megawatt-hour expansion, bringing the battery storage system's total capacity to 750 MW/3,000 MWh, the largest of its kind in the world.

It came online on June 2 and is now storing power and releasing it to California's grid. It's going to operate under a 15-year resource adequacy agreement with Pacific Gas and Electric Company (PG& E) starting August 1.

Resource Adequacy is California's policy framework that "ensures there is enough capacity and reserves for the grid operator to maintain a balanced supply and demand across the electric system," according to California ISO. Resource Adequacy requirements include electricity delivery in four-hour blocks.

Jim Burke, Vistra president and CEO, said, "We appreciate the continued partnership with PG& E, which allows us to bring our expertise in energy storage to bolster the reliability of California's growing renewable portfolio and provide much-needed power to its residents."

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In 2021, the global battery energy storage systems market was valued at \$4.04 billion and is expected to increase to \$34.72 billion by 2030 with an approximate CAGR of 27%.

Growing demand for power distribution energy storage systems due to continuous grid modernization and increased consumption of lithium-ion batteries in the renewable energy market is projected to drive battery energy storage system industry demand. (Source)

Battery Energy Storage System (BESS) uses specifically built batteries to store electric charge that can be used later. A massive amount of research has resulted in battery advancements, transforming the notion of a



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BESS into a commercial reality.

Australian and German homeowners had built around 31,000 and 100,000 battery energy storage systems, respectively, by 2020. Large-scale BESSs are now operational in nations such as the United States, Australia, the United Kingdom, Japan, China, and many others. (Source)(Source)

As we discuss major companies and startups pioneering the Battery Energy Storage System, it is important to be well-versed in the advantages and the challenges that come attached to this technology.

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