



Specific energy storage applications georgia

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Georgia Power leaders joined elected officials from the Georgia Public Service Commission (PSC) on Thursday to mark commercial operation of the company's first "grid-connected" battery energy storage system (BESS).

Georgia Power has identified locations for 500 MW of new battery energy storage systems (BESS) authorized by the Georgia Public Service Commission (PSC) earlier this year as part of the company's 2023 Integrated Resource Plan (IRP) Update.

Advances in energy storage technology have the potential to positively affect the energy distribution and transmission systems (smart grid), our energy consumption (electric vehicles), make electricity more reliable and available, and improve power grid efficiency.

The Center of Innovation assists businesses focused on energy storage in two primary ways. We work closely with Georgia's universities to identify cutting-edge research regarding energy storage and provide companies with access to the latest applied research.

To rid the use of fossil fuels and meet its decarbonizing energy goals, Georgia Power is adding Battery Energy Storage Systems (BESS) to its clean energy portfolio. BESS creates more flexibility with energy usage from demand fluctuations and adds more capacity to the energy system.

Georgia Power leaders joined elected officials from the Georgia Public Service Commission (PSC), Georgia legislature, and Talbot and Muscogee counties to mark commercial operation of the company's first "grid-connected" battery energy storage system (BESS). The Mossy Branch Battery Facility is capable of 65 megawatts (MW) of battery storage that can be deployed back to the grid over a four-hour period, adding resiliency to the state's power grid and helping ensure reliable energy for a growing Georgia.

Georgia Power worked with industry leader Wärtsilä to provide the engineering, procurement and construction services for the Mossy Branch facility. The project utilizes the GEMS Digital Energy Platform, Wärtsilä's energy management system, to manage the facility and provide secure operations, and is built with Wärtsilä's Quantum, a fully integrated, modular, and compact energy storage system.

New Battery Energy Storage Projects Underway Across Georgia Georgia Power continues to work with the Georgia PSC to procure and develop BESS projects across Georgia. In addition to the Mossy Branch facility, Georgia Power is developing the 265 MW McGraw Ford Phase I BESS project in Cherokee County. This project was approved in the 2022 IRP, and Georgia Power expects it to enter service by the end of 2026.



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An additional 1,000 MW of new battery energy storage is expected to be procured in the coming years through competitive bidding processes and, in August, Georgia Power also announced the locations of 500 MW of new BESS projects that will be owned by the company. These new company-owned projects include 128 MW located adjacent to Robins Air Force Base (Bibb County); 49.5 MW located adjacent to Moody Air Force Base (Lowndes County); 57.5 MW located on the former Plant Hammond site (Floyd County); and 265 MW as a second phase of BESS at McGrau Ford. [Read more here.](#)

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