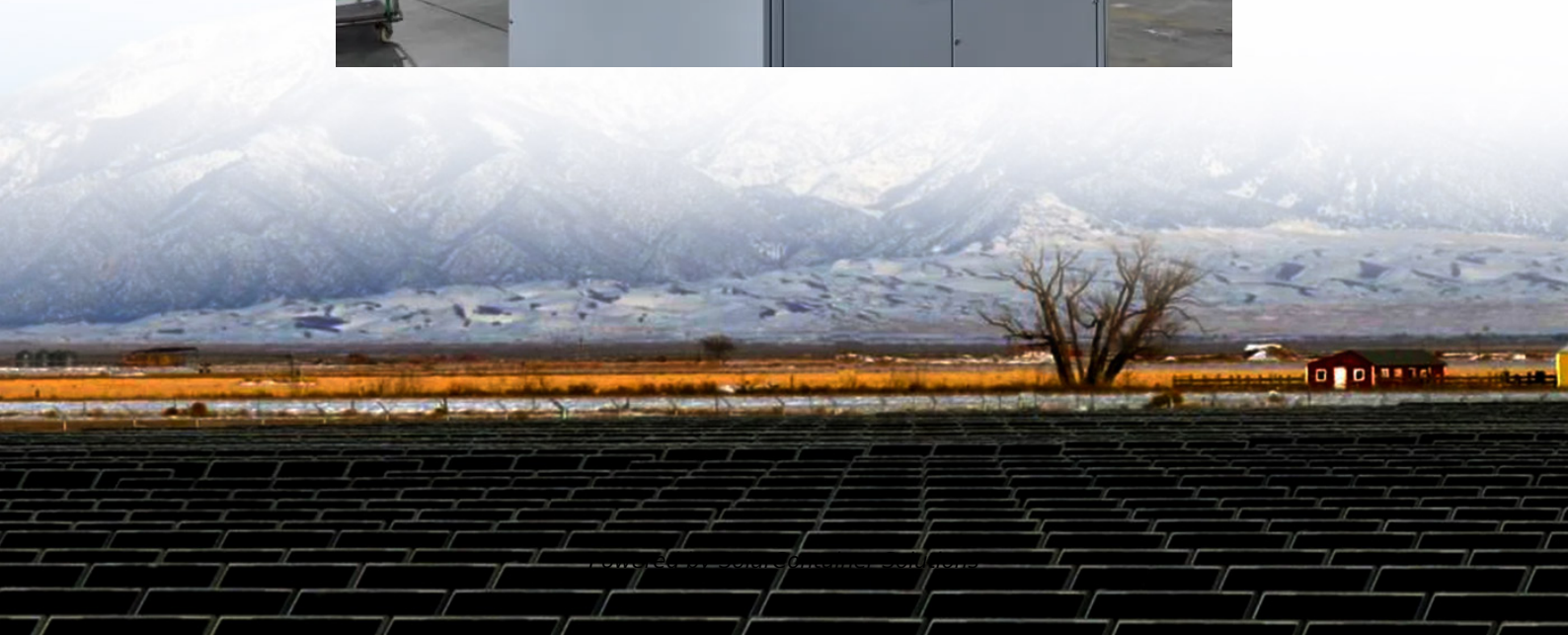


Mo large-capacity energy storage power station project





Overview

Ameren Missouri has filed plans to build the Big Hollow Energy Center—an 800 MW natural gas plant and its first 400 MW large-scale battery storage facility. The project will boost grid reliability, meet rising demand, and power progress in Jefferson County. Does Ameren Missouri have a smart energy plan?

“Building off the success of bringing in nearly two dozen new economic development projects in 2024, Ameren Missouri has construction agreements with potential large load customers for new energy demand,” the utility said. Ameren also filed an updated Smart Energy Plan with the Missouri Public Service Commission in February.

Will big Hollow Energy Center be Ameren's first large-scale battery facility?

The Big Hollow Energy Center will be Ameren's first large-scale battery facility, but the utility's long-range plans call for installing 1.8 GW of energy storage by 2042. A rendering of Ameren Missouri's proposed Big Hollow Energy Center, which the utility says could come online in Jefferson County by 2028. Courtesy of Ameren Missouri.

What is the Big Hollow Energy Center?

The application involves the construction of an 800-megawatt (MW) simple-cycle natural gas generation plant, in addition to Ameren Missouri's first large-scale battery storage facility at one location. Known as the Big Hollow Energy Center, the new facility is designed to efficiently meet increased energy demands while ensuring grid resiliency.

How many homes can a new energy project power?

Today's approval includes projects capable of powering approximately 73,000 homes and an additional opportunity to deliver more renewable energy to businesses ST. LOUIS, March 21, 2024.



Mo large-capacity energy storage power station project



Ameren Corporation

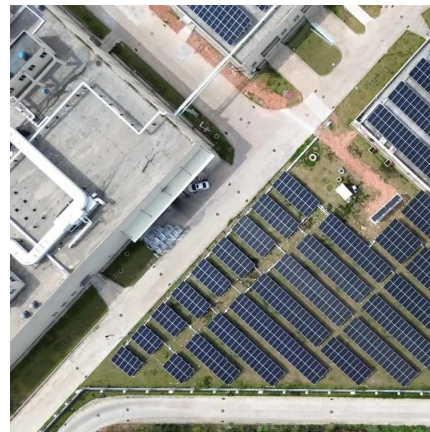
Ameren Missouri, a subsidiary of Ameren Corporation (NYSE: AEE), has filed an application with the Missouri Public Service Commission to build an 800 megawatt simple ...

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[Top 10: Energy Storage Projects , Energy Magazine](#)

A large lithium-ion battery storage project that contributes to grid stability and supports the integration of renewable energy, Leighton Buzzard ...

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[Ameren Missouri receives approval for largest-ever ...](#)

Today's approval includes projects capable of powering approximately 73,000 homes and an additional opportunity to deliver more ...

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[CATL Launches World's First 9MWh Ultra-Large ...](#)

Landmark innovation pairs high capacity with flexible transport, redefining large-scale energy



storage MUNICH, May 7, 2025 /PRNewswire/ -- ...

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[RWE switches on large-scale battery energy storage ...](#)

At RWE's Moerdijk power station, commissioning of its ultra-fast synthetic inertia battery energy storage system is progressing well. With an ...

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Ameren Missouri receives approval for largest-ever solar investment

Today's approval includes projects capable of powering approximately 73,000 homes and an additional opportunity to deliver more renewable energy to businesses ST.

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[Missouri Utility Plans New 800-MW Gas-Fired Plant, ...](#)

A utility that serves customers in Missouri announced it plans to build an 800-MW natural gas-fired power plant, along with the company's first ...

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[Ameren plans Missouri gas plant with 400-MW battery ...](#)

Ameren's Missouri utility subsidiary plans to construct an 800-MW simple-cycle gas plant alongside a 400-MW battery storage facility in ...

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[US Midwest utility Ameren Missouri planning 800MW](#)

Ameren Missouri aims to procure 800MW of battery storage, representing US\$650 million investment, in its service area connected to the Midcontinent Independent System ...

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Missouri Utility Unveils Hybrid Energy Storage and Natural Gas ...

Co-located on the site will be Ameren Missouri's first large-scale lithium-ion battery installation. The planned 400-MW battery storage is a fast-acting asset, ready in moments to ...

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Missouri Utility Plans New 800-MW Gas-Fired Plant, Will Include Energy

A utility that serves customers in Missouri announced it plans to build an 800-MW natural gas-fired power plant, along with the company's first large-scale battery energy storage

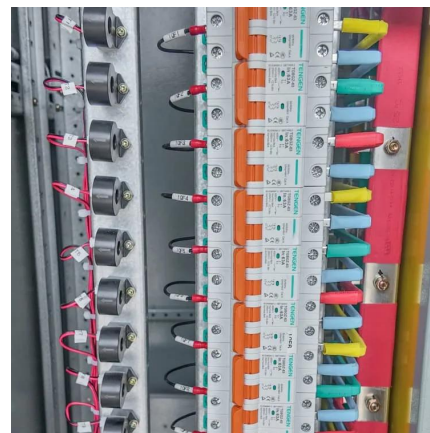
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Utility-scale battery energy storage system (BESS)

Introduction Reference Architecture for utility-scale battery energy storage system (BESS) This documentation provides a Reference Architecture for power distribution and conversion - and ...

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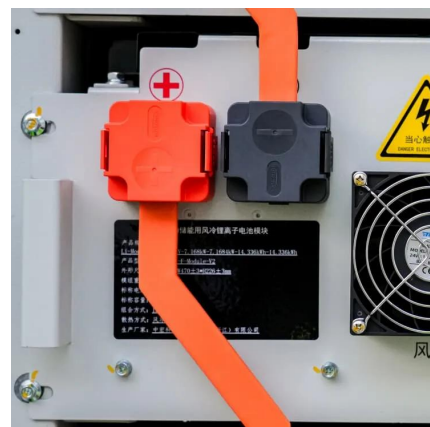
The energy storage power station can be expanded by connecting multiple container systems in parallel to meet the capacity demand of the project. 200KW Solardrive BESS Energy ...

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Ameren aims to replace Rush Island coal power with ...

Ameren is looking to build a natural gas-fired power plant and the company's first large lithium-ion battery facility on the Jefferson County site of ...

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What is the capacity of a large energy storage power station?

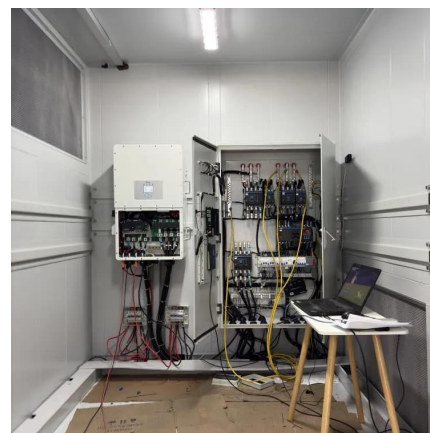
The capacity of a large energy storage power station can vary significantly based on its design, technology, and intended application. 1. Key technological options influence ...

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[US Midwest utility Ameren Missouri planning 800MW ...](#)

Ameren Missouri aims to procure 800MW of battery storage, representing US\$650 million investment, in its service area connected to the ...

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Electricity explained Energy storage for electricity generation

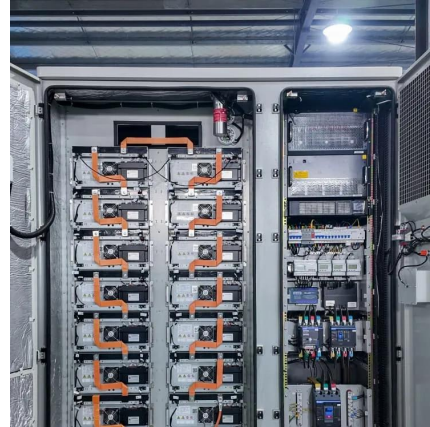
Energy storage for electricity generation An energy storage system (ESS) for electricity generation uses electricity (or some other energy source, such as solar-thermal energy) to charge an ...

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[STANWELL BATTERY ENERGY STORAGE SYSTEM](#)

The Stanwell Battery Energy Storage System (BESS) is the largest committed battery project in Queensland, delivering 300 megawatts of capacity with four ...

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Ameren aims to replace Rush Island coal power with gas plant

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[Ameren proposes hybrid gas and battery project in ...](#)

Ameren has filed plans with the Missouri Public Service Commission for a new 800-megawatt (MW) natural gas-fired peaking plant ...

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Energy storage

Storage capacity is the amount of energy extracted from an energy storage device or system; usually measured in joules or kilowatt-hours and their ...

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[Ameren plans Missouri gas plant with 400-MW battery storage](#)

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The power station is the first phase of the "200MW/800MWh Dalian Flow Battery Energy Storage Peak Shaving Power Station National Demonstration Project". ...

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Ameren Missouri unveils plans to build new hybrid energy center

Ameren Missouri has filed plans to build the Big Hollow Energy Center--an 800 MW natural gas plant and its first 400 MW large-scale battery storage facility. The project will boost ...

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Springfield City Utilities to invest \$280M to expand power generation

City Utilities is looking to expand its electric generation and battery storage by moving forward with financing up to \$280 million for two projects.

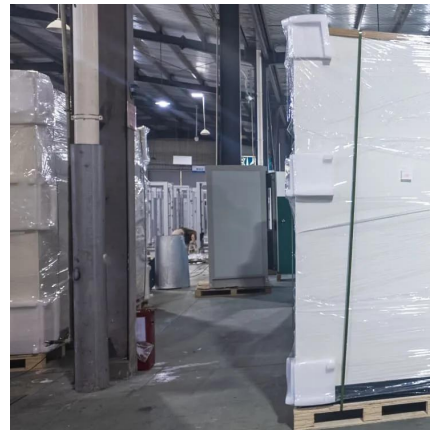
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[Megapack - Utility-Scale Energy Storage , Tesla](#)

Megapack is a utility-scale battery that provides reliable energy storage, to stabilize the grid and prevents outages. Find out more about Megapack.

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[The 10 Largest Pumped-Storage Hydropower Plants ...](#)

2. Huizhou Pumped Storage Power Station, China, 2,448 MW capacity, completed 2011. The upper reservoir is created by two dams, of ...

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