

# The largest grid energy storage project





## Overview

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Following the landmark agreement with Saudi Electricity Company (SEC) in early 2025 for the world's largest 12.5GWh grid-side energy storage project, BYD Energy Storage has launched its delivery campaign with unprecedented momentum. Will Tesla build a grid-scale battery energy storage station in China?

Tesla has officially signed a ¥4 billion (C\$764/US\$557 million) deal to build its first grid-scale battery energy storage station in China, leveraging its Megapack technology.

Will Tesla build China's largest grid battery project using megapacks?

Tesla to build China's largest grid battery project using Megapacks in a \$556M deal amid ongoing trade tensions.

What is BYD energy storage?

BYD Energy Storage and Saudi Electricity Company (SEC) have signed a contract to deliver the world's largest grid-scale energy storage project totalling 12.5GWh. This milestone supports Saudi Arabia's Vision 2030, which targets 50% renewable energy in the national mix by the end of the decade. A milestone in global energy storage.

Could a grid-side energy storage power station solve urban electricity problems?

"The grid-side energy storage power station is a 'smart regulator' for urban electricity, which can flexibly adjust grid resources," Tesla said on Weibo, according to a Google translation. This would "effectively solve the pressure of urban power supply and ensure the safe, stable and efficient electricity demand of the city," it added.



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### Tesla Signs \$557 Million Deal to Build First Grid-Scale Megapack Energy

Jun 20, 2025 · The timing of the project aligns with China's increasing focus on renewable energy and storage infrastructure, as the country looks to manage the intermittent nature of solar and ...



### [China's Largest Grid-Forming Energy Storage Station ...](#)

Apr 9, 2024 · On March 31, the second phase of the 100 MW/200 MWh energy storage station, a supporting project of the Ningxia Power's East Ningxia Composite Photovoltaic Base Project ...

### [China switches on its largest standalone ...](#)

Jul 21, 2025 · This project is the largest hybrid energy storage installation in China and hosts the world's largest grid-forming vanadium redox flow ...



### [World's largest grid-scale battery storage projects](#)

Feb 25, 2025 · BYD Energy Storage and Saudi Electricity Company have signed the world's largest grid-scale energy storage projects contracts totalling a capacity of 12.5 GWh at the ...



[World's largest sodium-ion battery goes into ...](#)

Jul 2, 2024 · The first phase of Datang Group's 100 MW/200 MWh sodium-ion energy storage project in Qianjiang, Hubei Province, was connected ...



[BYD Energy Storage Signed World's Largest Grid-scale](#)

Feb 17, 2025 · This landmark project will redefine the value and status of electrochemical energy storage solutions in the global energy landscape.



[China switches on its largest standalone battery storage project](#)

Jul 21, 2025 · This project is the largest hybrid energy storage installation in China and hosts the world's largest grid-forming vanadium redox flow battery, set to reach a 250 MWh/1 GWh ...





[Tesla to build China's biggest grid battery plant in \\$556M deal](#)

Jun 26, 2025 · Tesla to build China's largest grid battery project using Megapacks in a \$556M deal amid ongoing trade tensions.

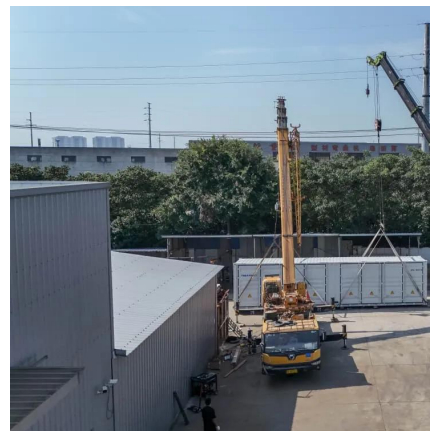


[World's largest grid-scale battery storage ...](#)

Feb 25, 2025 · BYD Energy Storage and Saudi Electricity Company have signed the world's largest grid-scale energy storage projects contracts ...

[At 300MW / 1.200MWh, the world's largest](#)

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### [BYD & SEC: World's Largest Grid-Scale Energy Storage Project](#)

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### [Top five energy storage projects in the US](#)

Sep 10, 2024 · Listed below are the five largest energy storage projects by capacity in the US, according to GlobalData's power database. GlobalData uses proprietary data and analytics to ...



[BYD energy storage signed world's largest grid-scale battery storage](#)

Mar 7, 2025 · BYD Energy Storage and Saudi Electricity Company successfully signed the world's largest grid-scale energy storage projects contracts with a capacity of 12.5GWh at the time. ...

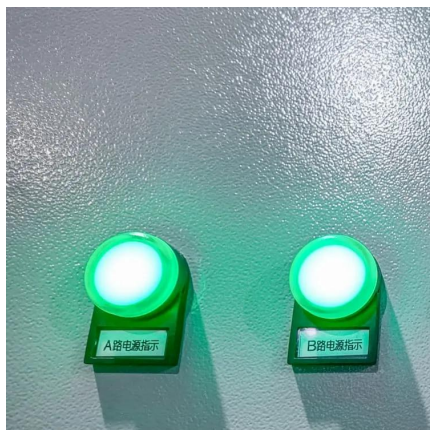


[The World's 6 Biggest Grid Battery Storage ...](#)

Mar 13, 2022 · Pumped hydro storage is the largest form of grid energy storage, accounting for up to 95 percent of all installed grid storage ...

[The largest single grid type energy storage project in China ...](#)

Nov 9, 2024 · The largest single grid type energy storage project in China is connected to the grid and put into operation State grid Aksu power supply company 08 Nov, 2024, 13:45 CST



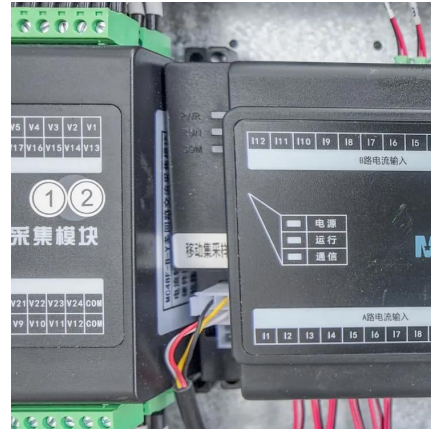
[World's largest grid-forming energy storage project ...](#)

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Sep 19, 2024 · A project in China, claimed as the largest flywheel energy storage system in the world, has been connected to the grid.

[World's largest grid-forming energy storage ...](#)

Nov 15, 2024 · The project is the largest of its kind in the global lithium iron phosphate battery storage sector, setting a benchmark for grid-forming ...



[Tesla agrees to build China's largest grid-scale battery power ...](#)

Jun 20, 2025 · Tesla has signed its first deal to build a grid-scale battery power plant in China. The U.S. company posted on the Chinese social media service Weibo that the project would ...



### [Saudi Arabia commissions its largest battery ...](#)

Jan 20, 2025 · Saudi Arabia has officially connected its largest battery energy storage system (BESS) to the grid, marking a significant milestone in the ...



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