



## Overview

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When was Tesla's Energy Storage megafactory built?

Construction of Tesla's energy storage Megafactory started in May 2024. It became operational in February 2025, and started exporting products to Australia the following month. The energy storage Megafactory is the first of its kind built by Tesla outside the US and the company's second plant in Shanghai.

How big is Tesla's energy storage capacity?

Its energy storage products are operating in over 65 countries and regions globally, with total deployment exceeding 10 gigawatt-hours. In 2023, Tesla's total energy storage capacity reached 14.7 GWh, with profits nearly quadrupling.

How will Tesla's Energy Storage megafactory benefit Shanghai?

"It will enhance grid flexibility and help integrate renewable energy in the Lingang New Area, supporting Shanghai's seasonal power demands and regional energy security," Dong said. Construction of Tesla's energy storage Megafactory started in May 2024.

How long do energy storage batteries last?

While they typically last around four hours, grid planners emphasize the need for diurnal storage systems exceeding 10 hours in the future. US startup Inlyte has introduced an iron-sodium battery designed for both mid-range (4-10 hours) and long-duration (24+ hours) energy storage.

How efficient is energy storage technology?

Furthermore, the company highlighted that its energy storage technology not only sustained capacity for over 700 cycles but also demonstrated impressive 90% roundtrip efficiency, marking a significant milestone in its development.

## Why do we need long-duration electricity storage?

The energy transition requires the deployment of firm, reliable power, which wind and solar alone do not provide. Without long-duration electricity storage (LDES), grids must rely on inefficient and expensive fossil fuel backup, undermining both decarbonisation and economic stability.

## 10 hours energy storage project

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### OCED Announces \$100 Million for Non-Lithium Long-Duration Energy

Sep 5, 2024 · , the U.S. Department of Energy's (DOE) Office of Clean Energy Demonstrations (OCED) today opened applications for up to \$100 million in funding to support pilot-scale ...

### Tesla's Shanghai energy-storage battery Megafactory to ...

Feb 6, 2025 · Mass production at the Shanghai facility is expected to fully commence in the first quarter of 2025, Tesla said. This Megafactory was built with an initial annual production ...



### Tesla signs agreement to build its first Chinese grid-side energy

Jun 20, 2025 · Construction of Tesla's energy storage Megafactory started in May 2024. It became operational in February 2025, and started exporting products to Australia the following ...



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