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Large-Scale Energy Storage Planning in Asia

Overview

What is China's Energy Storage plan?

The plan’s target represents a significant scaling up, even for the world’s leading adopter and producer of energy storage technologies. According to official National Energy Administration data from its recent ‘China new energy storage development report 2025,’ the country’s installed base at the end of 2024 totalled 73.8GW/168GWh.

How big is China's new energy storage fleet?

As of June 2025, China’s new energy storage fleet had surpassed 100 GW, overtaking the pumped hydro additions for the first time, according to data from the China Energy Storage Alliance (CNESA). The new action plan, grounded in the nation’s dual carbon goals, aims to grow the national new energy storage fleet to 180 GW by 2027.

Which countries are leading the energy storage industry?

Detailed case studies of Japan, Thailand, and China highlight the diverse policy approaches, technological innovations, and international collaborations shaping energy storage advancements. While Japan emphasises cutting-edge innovation, Thailand focuses on regional integration, and China leads in large-scale deployment and manufacturing.

Are energy storage systems a key focus area in Asia-Pacific?

As countries in the Asia-Pacific region strive to meet their energy needs while committing to reducing greenhouse gas emissions, the advancement of energy storage technologies has become a key focus area . Energy storage systems (ESS) play a crucial role in the transition to a low-carbon energy future.

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China has published plan to promote large-scale energy storage facilities, encouraging investment and electricity market participation.

The Energy Policy and Planning Office (EPPO) and relevant agencies have created an action plan to promote Thailand's battery energy storage industry, which has helped boost ...

South Asia Energy Storage Study The South Asia Energy Storage Study offers a comprehensive analysis of the potential role of energy storage technologies in the South Asia ...

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As demand for grid-scale storage continues to accelerate across key APAC markets, Trina Storage has been selected to supply advanced BESS technology for several ...

This essay offers a comprehensive overview of battery energy storage systems (BESS) deployment and the investment landscape in the Asia-Pacific, identifies key ...

The Asia Pacific energy storage systems market was at USD 301.2 billion in 2024. The market is expected to grow from USD 402.4 billion in 2025 to USD 2.44 trillion in 2034, at a CAGR of ...

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A 500 MW/2,000 MWh standalone battery energy storage system (BESS) in Tongliao, Inner Mongolia, has begun commercial operation following a five-month construction ...

Core Data: o In June, newly commissioned new energy storage reached 2.33GW/5.63GWh in China; for the first time, the "June 30" grid-connection peak cooled down. ...

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China aims to add more than 100 GW of new energy storage (primarily battery storage, excluding pumped hydro) by 2027, according to a new action plan presented by ...

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