

ContainerPower Energy Solutions

**The new energy battery cabinet
has been produced for half a
year**



Overview

Trina Storage, the vertically integrated battery energy storage solution provider, today announced the official launch of its new product - The All-New Elementa, a flexible, safe and high-performance BESS with up to 25% more cycles and cost savings. Why is China's battery industry growing so fast?

The rapid growth is guaranteed by China's strong battery manufacturing capability. Last year, a new energy power and energy storage battery manufacturing base with an annual production capacity of 30 GWh, constructed by China's battery giant Contemporary Amperex Technology Co., Ltd. (CATL), went into operations in Guizhou Province.

What is battery energy storage system (BESS)?

The sharp and continuous deployment of intermittent Renewable Energy Sources (RES) and especially of Photovoltaics (PVs) poses serious challenges on modern power systems. Battery Energy Storage Systems (BESS) are seen as a promising technology to tackle the arising technical bottlenecks, gathering significant attention in recent years.

Is the battery industry entering a new phase of development?

After years of investments, global battery manufacturing capacity reached 3 TWh in 2024, and the next five years could see another tripling of production capacity if all announced projects are built. These trends point to a battery industry entering a new phase of its development.

What are the new energy storage technologies in 2023?

Since 2023, a number of 300-megawatts-grade compressed air energy storage projects along with 100-megawatts-grade liquid flow battery projects begun construction. The new technologies including gravity storage, liquid air storage, carbon dioxide storage have been developed as well, according to the NEA.

How many GWh of battery capacity is under construction?

Nearly 700 GWh of additional manufacturing capacity is under construction. Around 40% of existing capacity is operated or developed by established battery makers in close collaboration with automakers.

Which countries manufacture NMC batteries?

Korea and Japan are already major players in the global battery industry, home to key battery makers and specialised suppliers with strong expertise in NMC batteries. Both countries have limited domestic battery production but host established manufacturers with significant overseas investments.

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