

Catl energy storage

Lithium-ion battery manufacturer CATL has launched its latest grid-scale BESS product, with 6.25MWh per 20-foot container and zero degradation over the first five years, the company claimed.

The China-headquartered company announced the “Tener” battery energy storage system (BESS) solution (Tianheng in Chinese) last week (9 April) with several claims of industry-leading technical specifications.

This has been achieved thanks to biomimetic SEI (solid electrolyte interphase) and self-assembled electrolyte technologies, which CATL said has “cleared roadblocks for the movement of lithium ions”.

Tener also packs 6.25MWh of energy storage capacity into a 20-foot container, the highest Energy-Storage.news is aware of for a lithium-ion BESS unit, significantly above the 5MWh-per-unit that appears to have become the standard for BESS products from China.

CATL is the biggest manufacturer of lithium-ion battery cells in the world, and using in-house built cells (as Trina and Hithium do too) is key to designing systems with such high energy densities.

In the energy storage market, CATL is sometimes described as a system integrator but also “perhaps primarily” sells its BESS units to other system integrators who will package those into their turnkey BESS project and software solutions. One such deal was announced with US company FlexGen in 2022.

This is partially down to political barriers to applying energy management system (EMS) software made in China for projects in the US and elsewhere. That political pressure even led to physical CATL BESS units being disconnected and then ultimately decommissioned by US utility Duke Energy, albeit at a military base.

Energy-Storage.news" publisher Solar Media will host the 2nd Energy Storage Summit Asia, 9-10 July 2024 in Singapore. The event will help give clarity on this nascent, yet quickly growing market, bringing together a community of credible independent generators, policymakers, banks, funds, off-takers and technology providers. For more information, go to the website.



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