



BUHLE POWER

Singapore Smart solar container energy storage system





Overview

Does Singapore need a solar energy storage system?

SINGAPORE – As Singapore seeks to harness as much sunshine as it can to maximise its limited renewable energy sources, it needs to improve technologies that can store excess solar energy from the day. One such technology is energy storage systems (ESS), which are essentially giant batteries packed in containers that store electricity for later use.

What is Singapore's solar energy system (ESS)?

Built across two sites on Jurong Island, our ESS enhances Singapore's grid resilience by mitigating the impact of solar intermittency as the republic progresses towards achieving its 2030 solar target of at least 2GWp and energy storage systems deployment of 200MWh beyond 2025.

What is Singapore's first energy storage system?

As part of the smart grid management system (SGMS) project at Singapore's ports, the city's first energy storage system (ESS) has been deployed at the Pasir Panjang Terminal and will be operational in the third quarter of this year. The ESS will contribute to helping the SGMS to improve the energy efficiency of port operations by 2.5%.

What is Singapore's first utility-scale energy storage system?

Singapore's First Utility-scale Energy Storage System Through a partnership between EMA and SP Group, Singapore deployed its first utility-scale ESS at a substation in Oct 2020. It has a capacity of 2.4 megawatts (MW)/2.4 megawatt-hour (MWh), which is equivalent to powering more than 200 four-room HDB households a day.



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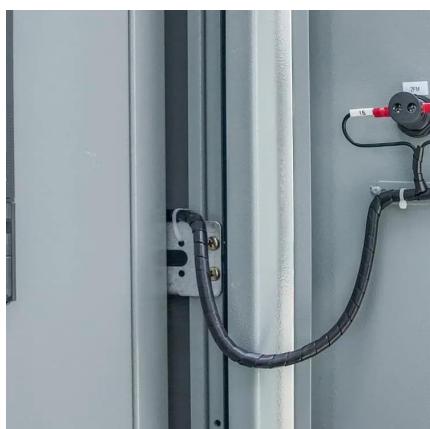
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Energy Storage Systems

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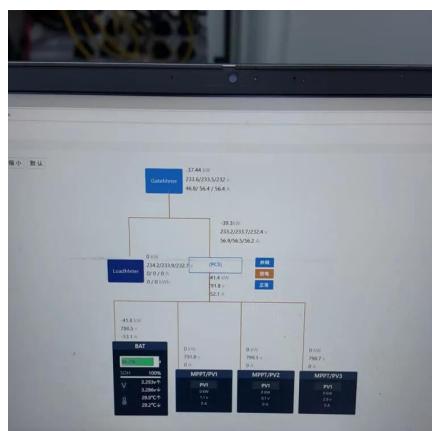
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Energy Storage Systems

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