

# Singapore Underground Energy Storage Project





## Overview

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Why is energy storage important in Singapore?

Puah Kok Keong, Chief Executive, EMA said, “As Singapore expands solar deployment, energy storage systems will become more important to enhance grid resilience and ensure power system stability. I welcome the development of energy storage systems that are safe, cost-effective and space-efficient.”.

Does Singapore need energy storage systems to manage solar intermittency?

However, the minister said there is a need to “step up energy storage systems to manage solar intermittency.” Talks are currently ongoing with Sembcorp, the engineering conglomerate behind the 200MW/285MWh battery energy storage system (BESS) installation on Singapore’s Jurong Island.

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.

How much EMA grant for sodium-ion battery & underground storage research in Singapore?

On 23 Oct 2024, Singapore announced S\$7.8M EMA Grant for Sodium-ion Battery and Underground Storage research in Singapore. Image Source: Artist Impression (Image for illustration purposes only)



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### [Sembcorp to expand Southeast Asia's biggest ...](#)

Oct 24, 2024 · Built across two sites on Jurong Island, Sembcorp's lithium ion battery storage system will now be expanded to 311 MWh. Meanwhile, ...

### [Sembcorp partners EMA to test energy storage system for ...](#)

Oct 27, 2025 · The battery energy-storage system also integrates battery management, power supply and distribution, monitoring, environment control, fire suppression, and cabling ...



### [Sembcorp to expand Southeast Asia's biggest battery storage ...](#)

Oct 24, 2024 · Built across two sites on Jurong Island, Sembcorp's lithium ion battery storage system will now be expanded to 311 MWh. Meanwhile, Singapore's Energy Market Authority ...



### [Singapore could expand SE Asia's biggest ...](#)

Oct 23, 2024 · The 200MW/285MWh Sembcorp BESS project on Jurong Island, Singapore. Image: Sembcorp Singapore's government and ...



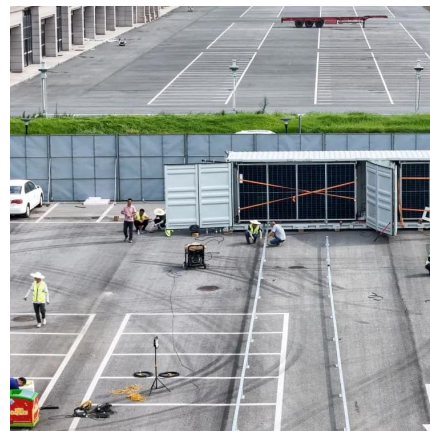
### [Press Release Detail , SIEW 2025](#)

Singapore, 22 October 2024 - The Energy Market Authority (EMA) has awarded grants totalling \$7.8 million to two companies to explore solutions that could enhance the cost-effectiveness ...



### [VFlowTech Wins EMA Grant for Underground Energy Storage ...](#)

Oct 25, 2024 · Our project focuses on the potential of underground energy storage systems (ESS)--a groundbreaking approach to minimize land use while ensuring robust safety ...



### [Energy Storage Systems](#)

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### [Singapore could expand SE Asia's biggest BESS and flow ...](#)

Oct 23, 2024 · The 200MW/285MWh Sembcorp BESS project on Jurong Island, Singapore. Image: Sembcorp Singapore's government and Energy Market Authority (EMA) have ...



### [Energy Storage Systems](#)

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### **EMA awards \$7.8 million to boost research into energy storage in Singapore**

Oct 25, 2024 · The awarded projects were selected for their scalability and relevance to the city-state's energy needs. The Energy Market Authority (EMA) has awarded \$7.8m in grants to two ...



### [S\\$7.8M EMA Grant for Sodium-Ion Battery ...](#)

Oct 24, 2024 · Singapore awards S\$7.8M EMA grant for energy storage solutions. Posh Electric to test sodium-ion batteries as cheaper ...



## [EMA , Energy Storage Systems](#)

Facilitating Deployment Accelerating Energy Storage for Singapore (ACCESS) Programme Led by EMA, the ACCESS programme helps to facilitate ESS adoption in Singapore by promoting ...



## [VFlowTech Wins EMA Grant for Underground ...](#)

Oct 25, 2024 · Our project focuses on the potential of underground energy storage systems (ESS)--a groundbreaking approach to minimize land ...

## [S\\$7.8M EMA Grant for Sodium-Ion Battery and Underground Storage ...](#)

Oct 24, 2024 · Singapore awards S\$7.8M EMA grant for energy storage solutions. Posh Electric to test sodium-ion batteries as cheaper alternative. VFlowTech to study underground energy ...



## [Southeast Asia's largest Energy Storage project deployed at Singapore](#)

Singapore-based energy and urban development company Sembcorp Industries has officially opened the 285-MWh utility-scale energy storage system (ESS) on the country's Jurong ...



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