



MODERNIZATION SOLAR

East Asia Power Generation and Energy Storage Project





Overview

A massive planned buildout of pumped storage hydropower (PSH) in Eastern Asia, driven by China, would allow this region to single-handedly meet the International Renewable Energy Agency's (IRENA) 1.5°C Scenario target of 420 gigawatts of pumped storage worldwide by 2050, according to new data from Global Energy Monitor. What is the energy demand in East Asia & Pacific?

With rapid urbanisation and industrialisation, the East Asia and Pacific region has been on a trajectory of rapidly rising energy demand. China continues to dominate hydropower development in the East Asia and Pacific region, adding 14.4GW of new installed capacity in 2024 to reach a total of 435.95GW.

Is pumped hydro a viable energy storage solution for Southeast Asia?

Pumped hydro shines as a promising solution to meet growing energy storage demands, essential for maintaining grid reliability as Southeast Asia incorporates more variable renewable sources such as solar and wind.

Could Singapore sit at the 'core' of new energy grids in Southeast Asia?

Singapore could sit at the "core" of new regional electricity grids in Southeast Asia, with proposed interconnections to neighbouring countries set to bring 25GW of new renewable power and energy storage projects online. This is according to Rystad Energy, which published a report into Singapore's role in the Southeast Asian energy mix this week.

What will be Sabah's biggest energy storage project?

With a projected maximum energy storage capacity of 400MWh, the BESS project will be the most extensive of its kind in the region, underscoring Sabah's strategic push towards renewable energy and sustainable development.



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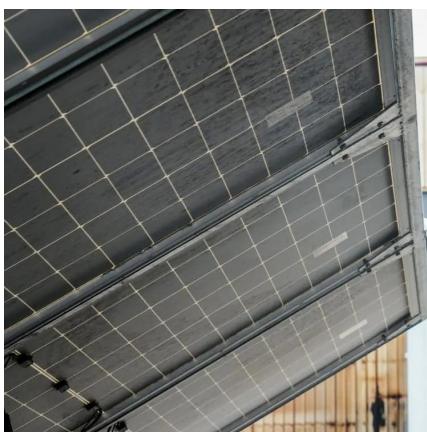


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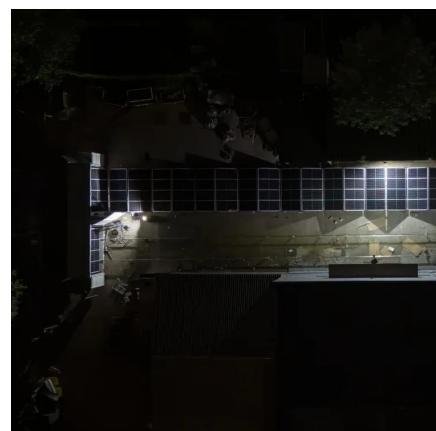
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