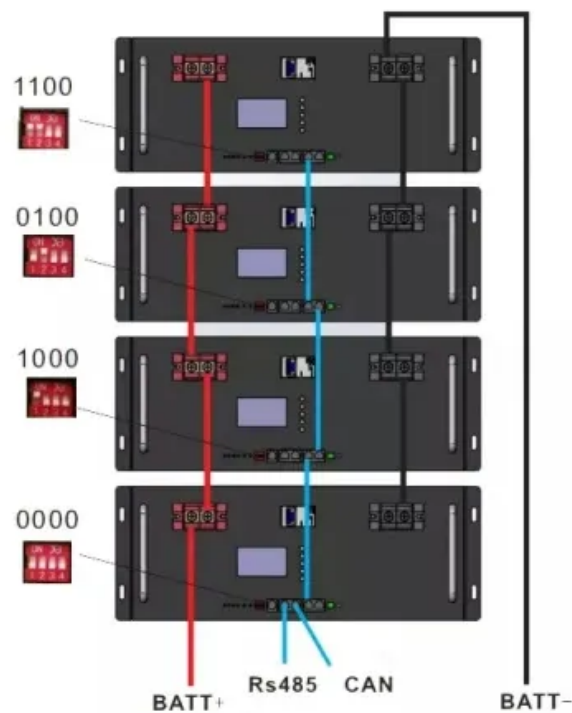


Energy storage ratio of East Asian wind power projects





Overview

East Asia has abundant wind, solar, and off-river pumped hydro energy resources. The identified pumped hydro energy storage potential is 100 times more than required to support 100% renewable e.

How much solar & wind energy is in Southeast Asia?

New analysis by the International Energy Agency (IEA) indicates that the share of solar and wind energy in the power generation mix in Southeast Asian countries must reach approximately 23% by 2030 to align with the 2050 Net Zero Emission (NZE) scenario. Combined solar and wind generation in ASEAN grew from 4.2 TWh to 50 TWh between 2015 and 2022.

Does East Asia have pumped hydro energy?

East Asia has abundant wind, solar, and off-river pumped hydro energy resources. The identified pumped hydro energy storage potential is 100 times more than required to support 100% renewable energy in East Asia.

How big is Asia's Offshore wind capacity?

According to Eninrac's Asia Wind Project Intelligence Tracker, Asia is expecting offshore wind capacity of more than 300 GW. Rapidly expanding government commitments and technological progress are contributing to the positive outlook in established markets and countries new to offshore wind.

How big will Asia wind energy be by 2030?

With nearly 400+ fresh projects announced/proposed to be commissioned by FY'2030-31 across the Asia, the offshore wind energy installations might see a capacity addition of over 300 GW* ,which shows a massive increase in current capacity. The Asia wind energy sector is anticipated to reach to a market size of over 720 GW by 2030.

How will offshore wind energy development impact Asia?

Offshore wind energy developments are embraced by most regions across the Asia. With nearly 400+ fresh projects announced/proposed to be



commissioned by FY'2030-31 across the Asia, the offshore wind energy installations might see a capacity addition of over 300 GW* ,which shows a massive increase in current capacity.

Will Southeast Asia meet the combined wind and solar share target?

For this report, we calculate capacity additions required in Southeast Asia to meet the combined wind and solar share target of 23% by 2030, set out in the IEA NZE scenario. We estimate the required electricity generation by 2030, using ASEAN Centre for Energy (ACE) average annual electricity growth rate projection of 5.8%.



Energy storage ratio of East Asian wind power projects



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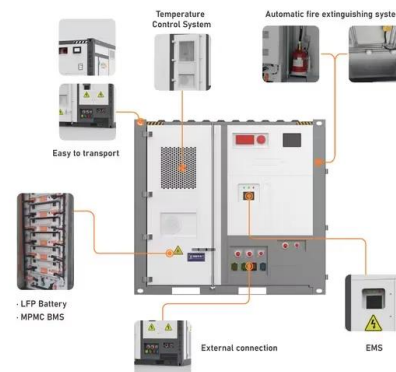
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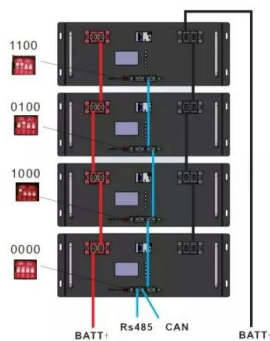




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