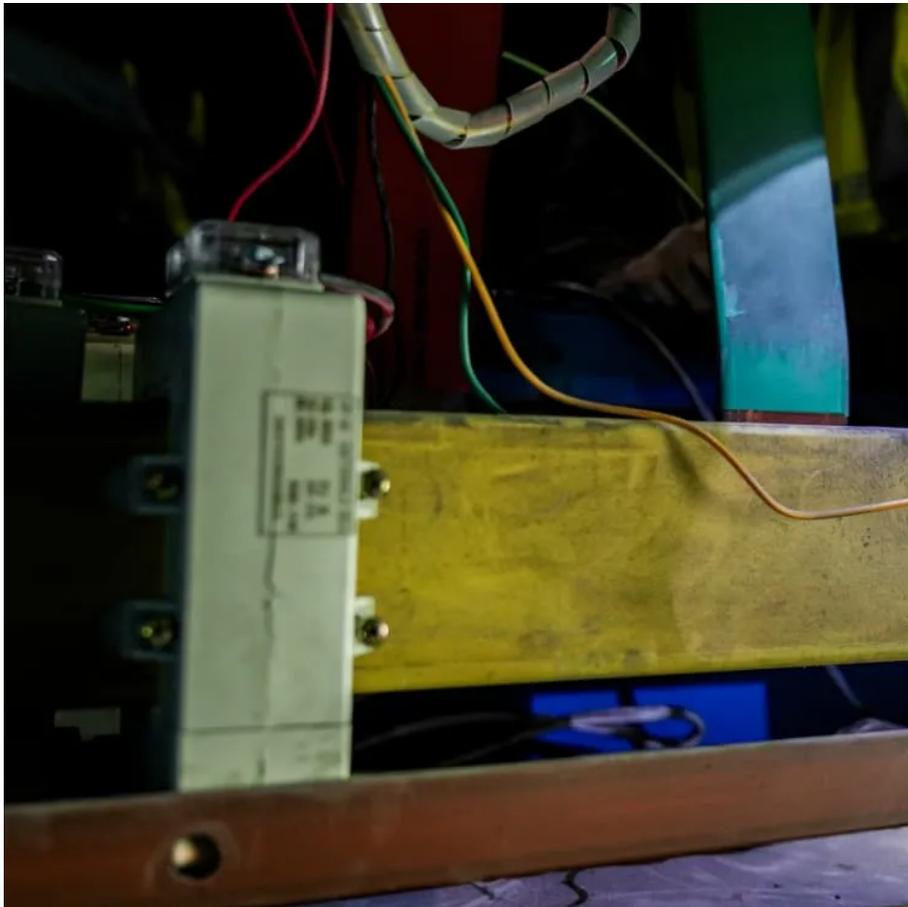


Solar energy storage requirements in the Middle East





Overview

Is large-scale energy storage a viable option in the Middle East?

Until recently, large-scale energy storage was barely a consideration in the Middle East, where fossil fuels have long dominated power generation. With renewable energy projects expanding across the region, energy storage has started gaining traction.

How much solar energy will Middle East have in 2023?

The region's installed renewable energy capacity reached 32 GW in 2023 and is expected to approach 40 GW by year-end. By 2030, it is projected to grow to 180 GW, reflecting a compounded annual growth rate of 30%, according to the Middle East Solar Industry Association.

Is energy storage gaining traction in the Middle East?

With renewable energy projects expanding across the region, energy storage has started gaining traction. Unlike Europe, North America, and Asia, where renewable energy and storage technologies are well-established, the Middle East remains in the early stages of development.

How much solar power does Saudi Arabia have?

Saudi Arabia already has an operational capacity of 2.1 GW solar PV, and 5.3 GW is under development, with commissioning expected this year, according to Blackridge Research and Consulting. Last month, the country prequalified 33 companies for the first group of BESS projects with a total energy storage capacity of 8 gigawatt-hours (GWh).



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