

Solar energy storage power generation 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.

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 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.

How much energy does the Middle East use?

The Middle East's power generation is heavily reliant on fossil fuels, making up 93% of the total at the end of 2023. Renewables accounted for 3% and nuclear and hydro for 2% each. Natural-gas power represented almost three-quarters of the region's electricity generation, making up 40% of the overall gas demand.



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