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Egypt s solar power generation



Overview

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11% of Egypt's electricity was generated from low-carbon sources in 2024, well below the global average of 41%. It was the 24th largest country by electricity demand. Egypt's largest source of clean electricity is hydro (6%). Its share of wind and solar (4.8%) is less than a third of the global.

It boasts some of the highest solar irradiance levels in the world, ranging from 2,000 to 3,200 kilowatt hours (kWh) per square meter annually. With more than 3,500 hours of sunshine per year and ample open space, regions such as the Western Desert and Upper Egypt hold vast, untapped potential for.

Egypt is endeavouring to augment the proportion of renewable energy within its electricity mix to 42% by the year 2035. The nation is actively expanding its capacity through the implementation of large-scale solar and wind energy initiatives. Against this backdrop, renewable power capacity in the.

By 2026, Egypt plans to add 12 gigawatts of renewable energy, with a focus on wind and solar power. The government has secured \$3.5 billion in investments for wind projects and plans to install 5.6 GW of solar energy. These projects aim to increase renewable energy's share in the national grid to.

Egypt has emerged as one of Africa's leading renewable energy markets, driven by ambitious government targets to generate 42% of its electricity from renewables by 2035. The country's vast deserts, abundant sunlight, and supportive policies have attracted major international investments in solar.

The African Development Bank, European Bank for Development and

Reconstruction (EBRD), and British International Investment (BII) are investing \$479.1 million to develop a major solar and battery storage facility in Egypt. This project, led by Obelisk Solar Power SAE and Scatec ASA, will integrate.

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