

# Egypt's solar and wind power generation systems



## Overview

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Egypt has revised its targets upward, now aiming to generate 42 percent of electricity from renewable sources by 2030 and over 60 percent by 2040, leveraging wind, hydropower, photovoltaic solar, and emerging technologies such as green hydrogen. Egypt possesses an abundance of land, sunny weather, and high wind speeds, making it a prime location for renewable energy projects. The Egyptian government is cognizant of the need for a sustainable energy mix to both address increasing demand and to move to a more environmentally sustainable and. The country was among the first in Africa to embrace renewables; Egypt had brought 555 MW of wind power generation online as early as 2012. Development stalled, though, as government support aligned behind natural gas-fired generation. A push for renewables began in earnest after Russia's invasion. E gypt's Cabinet has approved a major renewable energy initiative, greenlighting an offer from an international consortium led by Orascom Construction, France's Engie and Japan's Toyota to build a 900-megawatt onshore wind power plant in the Ras Shukeir area on the Red Sea coast, government sources. The Cabinet approved the proposal submitted by the consortium of Orascom Construction, French Engie, and Japanese Toyota (Elios) to implement a wind power generation project with a capacity of 900 MW in the Ras Shuqair area. This past year has witnessed the country's efforts to consolidate capacity, scale production, and re-calibrate strategy. 3 GW of utility-scale wind and solar power projects, raising its national combined capacity to 6.

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### Egypt's Renewable Energy Buildout Continues as First

Egypt had just more than 59 GW of installed power generation capacity as of year-end 2024, with just 11% of that figure coming from renewable



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