

Chemical energy storage in the Alexandria solar power plant in Egypt





Overview

Does Egypt have a solar plan?

In 2012, the Egyptian government approved the Egyptian Solar Plan, which includes adding 3.75 GW of solar energy by 2027: -3 GW concentrating solar thermal power (CSP) and 750 MW photovoltaics (PV). The Ministry of Electricity and Renewable Energy has signed nine MOUs worth \$600 million for solar and wind projects in Egypt.

How much solar power can Egypt produce?

According to the Wind and Solar Atlas, the East and West Nile areas have the potential to produce around 32,500 MW of wind power and 54,800 MW of solar power. Egypt is also considering financing options to conduct feasibility studies for the following projects:.

How many power purchase agreements have been signed in Egypt?

As of 2025, 32 Power Purchase Agreements (PPAs) have been signed with private developers to generate 1,465 megawatts (MW) of renewable energy, with additional agreements underway. Egypt continues to promote the “Build, Own, Operate” (BOO) model to attract foreign investment and accelerate deployment of solar and wind projects.

Is Egypt ready for low-carbon hydrogen?

In February 2024, Egypt’s Supreme Council of Energy approved the National Strategy for Low-Carbon Hydrogen, targeting 5–8 percent of global hydrogen trade by 2040 and projecting up to \$60 billion in investment. The private sector remains central to delivering this capacity.



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