



# Grid modernization saudi arabia

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A joint venture between NEOM, Air Products and ACWA Power is building the world's largest green hydrogen facility. The project will use renewable energy sources like solar and wind to create 4 gigawatts of power for electrolysis, producing 600 tonnes of clean hydrogen daily by 2026.

Sudair Solar PV will be one of the world's largest single-contracted solar plants and the biggest in Saudi Arabia, boasting a capacity of 1.5 gigawatts. This project is a major step for the Public Investment Fund's renewable energy program, achieving the second-lowest solar PV electricity production cost globally.

Led by ACWA Power, the consortium signed a 25-year agreement to deliver clean power to Saudi Arabia. Sudair PV IPP will provide electricity to 185,000 homes and offset nearly 2.9 million tons of emissions annually.

The Shuaibah Solar PV Project, previously known as Al-Faisaliah Solar IPP, is a major player in Saudi Arabia's shift towards renewable energy. This colossal project, reaching a final capacity of 2,600 MW, will be implemented in stages, with the initial phase constructing a 600 MW solar power plant.

This clean energy giant is expected to become a key supplier for roughly 450,000 households, significantly contributing to the country's renewable energy goals. The project highlights Saudi Arabia's dedication to diversifying its energy sources and promoting sustainability.

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