



Solar energy for the environment riyadh

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RIYADH: Saudi Arabia is embarking on a transformative journey to establish itself as a key player in the global renewable energy sector.

With a goal of sourcing 50 percent of its electricity from renewable sources by 2030, the Kingdom is investing heavily in solar energy, capitalizing on its abundant sunlight.

This commitment is part of the broader National Renewable Energy Program strategy, aimed at diversifying its energy portfolio and reducing reliance on fossil fuels.

By the end of the decade, Saudi Arabia aims to generate 58.7 gigawatts of renewable energy. This includes 40 GW from solar photovoltaics, alongside 16 GW from wind energy and 2.7 GW from concentrated solar power.

The scale of this initiative underscores the Kingdom's commitment to a sustainable energy future.

In 2024, Abdulaziz bin Salman, the Saudi minister for energy, announced plans to tender new renewable energy projects with an annual capacity of 20 GW. This could potentially lead to a total capacity of 100-130 GW by 2030.

The pace of these developments will depend on the growth in electricity demand, indicating a proactive approach to meeting future energy needs.

A significant milestone was reached on June 26, 2023, when the Saudi Power Procurement Company signed power purchase agreements for three new solar PV projects totaling 5.5 GW.

These are Haden Solar PV in Makkah Province with 2,000 megawatts, Al-Muwayh Solar PV in Makkah Province with a further 2,000 MW, and Al-Khushaybi PV in Qassim Province with 1,500 MW.

Several solar power plants are already operational. These include the Sakaka Solar PV Park, the first project under the NREP, generating 300 MW in Al-Jawf.

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