



Adani Green Commissions 180 MW Solar Plant In Rajasthan

Why in News?

Adani Green Energy has recently operationalized a 180-MW solar power plant at Devikot in Jaisalmer, Rajasthan.

Key Points

- The plant has a 25-year [Power Purchase Agreement \(PPA\)](#) with the [Solar Energy Corporation of India \(SECI\)](#), **Adani Green Energy Ltd (AGEL)**, India's largest [renewable energy](#) company.
- It will produce approximately 540 million electricity units annually, powering over 1.1 lakh homes and reducing around 0.39 million tonnes of [CO2 emissions](#).
 - **Next-generation bifacial solar Photovoltaic modules and horizontal single-axis solar trackers (HSAT)** have been deployed to maximise generation through better efficiency of modules and tracking the sun throughout the day.
 - HSAT used to increase the generation potential of the sunlight by tracking systems
- The plant is equipped with **waterless robotic module cleaning systems**, enabling [water conservation](#) in the barren region of Jaisalmer.

Power Purchase Agreement (PPA)

- It is a **long-term contract** between an electricity generator and a customer, usually a utility, government or company.
- PPAs usually last anywhere between 5 to 20 years, during which time the power **purchaser buys energy at a pre-negotiated price**.
- Such agreements play a key role in the **financing of independently owned** (i.e., not owned by a utility) electricity generators, especially producers of renewable energy like solar farms or wind farms.

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