



HEIDELBERG CEMENT'S COMMITMENT TO CLEAN ENERGY

A Case Study on **15 MW** green power procured from
Fourth Partner Energy's Solar Park in Saharanpur, Uttar Pradesh

GROUP CAPTIVE SOLAR SOLUTIONS TO HEIDELBERG CEMENT VIA OPEN ACCESS

Germany-based Heidelberg Cement entered India in 2006 and today boasts of 4 integrated cement manufacturing plants, 4 grinding units, a terminal and an installed capacity of 14 Mn tonnes in the country. Globally, the company aims to be an industry leader in the path to Carbon neutrality through investment into renewables, carbon capture, battery storage and Hydrogen as fuel. This 15 MW PPA in Uttar Pradesh is reflective of the core commitment to sustainability by its Indian subsidiary.

Key highlights of the 15 MW PPA between Heidelberg & Fourth Partner Energy

PPA Capacity 15 MW	Project Location Saharanpur, UP	Date of Commissioning 20-04-2022	Total Capacity of solar Park 90 MW
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HEIDELBERG CEMENT INDIA'S COMMITMENT TO NET ZERO

Apart from this 15 MW PPA with Fourth Partner Energy, Heidelberg India has also commissioned a 5.5 MW solar plant at its mining site in Damoh, Madhya Pradesh. The company has set a target 'to achieve 2°C lower ambient temperature at its plants, compared to those prevailing a kilometre away – and has already lowered temperatures by 1.2°C, since setting these goals.

Emission control is another area of focus for the firm – with Heidelberg having upgraded its pollution control equipment and adopted best technology practices like SCNR (Selective Non Catalytic Reduction) to control nitrogen oxide emissions, well within the prescribed limits.



ANNUAL ENVIRONMENTAL IMPACT OF HEIDELBERG CEMENT



20,900 tons
of Carbon Offset



49 Mn litres
of Water Conservation









9,881 tons
of reduction in Coal



equivalent to planting
1Mn Trees

FOURTH PARTNER ENERGY PROJECTS SHOWCASE

90 MW SOLAR PARK IN SAHARANPUR, UTTAR PRADESH

	Park Capacity 90 MW		Park Location Saharanpur, UP		Substation Type 132/33 kV UPPTCL
	Transmission Line 132 kV Lattice Tower <small>with ACSR Panther Conductor</small>		Annual Generation(Units) 8,80,35,129 kWh		Connectivity Voltage 132 kV



OVERCOMING CHALLENGES DURING PROJECT EXECUTION

Local land acquisition expertise

Setting up of renewable energy parks involves acquisition of vast acreage of non-arable wasteland. It is a rigorous process of transfer of property rights and requires expertise on law, valuation, negotiation, community engagement and networking with locals.

4PEL hired dedicated on-ground personnel to take charge of land negotiations, speedy approvals and to navigate the UP regulatory network: to ensure on-time completion of project.

EPC-related delays

The initial plan was to outsource the EPC of the project to a contractor – but when we identified competence-related issues which resulted in a wastage of time and resources, 4PEL quickly changed gears and internally took over project execution. It is a testament to our industry excellence that the Projects team was able to complete this solar park within estimated timelines.

Open Access vs Distributed Solar

The process to obtain approvals and liaise with government officials for the same is very different for Open Access projects, as compared to distributed solar projects – understanding this was crucial as team 4PEL had to hit the ground running on meeting with officials, educating them about the company's scale and operations and establishing positive long-lasting relationships to facilitate investment into the State.

MARQUEE CLIENTS PROCURING CLEAN ENERGY FROM 4PEL's 90MWp SOLAR PARK

HEIDELBERGCEMENT

UltraTech
CEMENT


SHRIRAM

WHY SHOULD BUSINESSES IN UTTAR PRADESH SWITCH TO RENEWABLE ENERGY?

Key Policy Highlights for Green Energy Open Access in the State

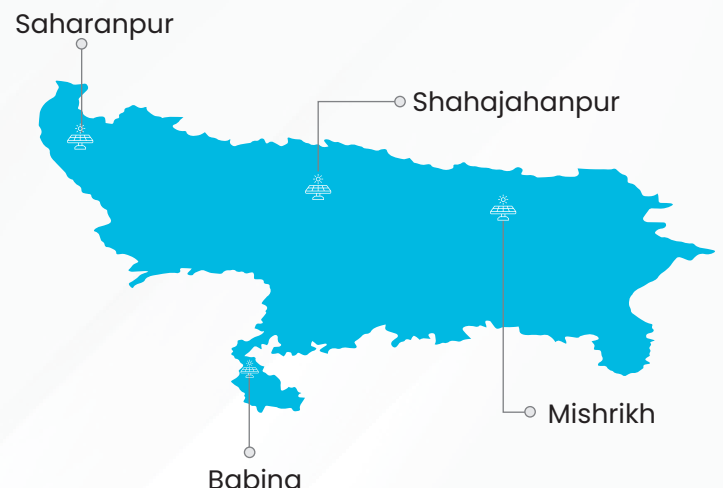
Uttar Pradesh ranks 4th in India (as of Dec 2022) in terms of cumulative installed solar open access capacity which stands at 653 MW. The government has set a target of 22 GW of installed solar capacity in the State by 2027. The new solar policy released by the State in Q4, 2022 is expected to attract more Open Access investment for the following reasons:

- ▶ **50% waiver on wheeling and transmission chargers** for the intrastate sale of power to captive and third-party consumers
- ▶ **Waiver on Electricity Duty for 10 years**
- ▶ **Lucrative banking policy** which permits upto 100% of energy to be banked annually, at a banking charge of 6%
- ▶ For Inter State sale of power, **100% exemption of cross-subsidy surcharge, wheeling charges, and transmission charges**
- ▶ The State Government will lease revenue land for a **solar park for 30 years at ₹ 15,000 per acre per year** to promote investment in the solar energy sector
- ▶ **100% exemption on chargeable Stamp duty** on the Land purchased or leased for setting up solar Energy units land in entire State of Uttar Pradesh

Industries that can benefit from RE: IT, agro-processing, mineral-based industries, textiles, manufacturing, food processing and sporting goods.

FOURTH PARTNER ENERGY'S OA FOOTPRINT IN THE STATE

Capacity	Location
90 MWp	Saharanpur
100 MWp	Babina
15 MWp	Shahajahanpur
90 MWp	Mishrikh



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