

HATSUN AGRO

BETS BIG ON RENEWABLE ENERGY

A Case Study on green power procured from **Fourth Partner Energy's** Karnataka and Maharashtra Solar Parks

GROUP CAPTIVE SOLAR SOLUTIONS to HATSUN AGRO via OPEN ACCESS

Hatsun is the 4th largest dairy products producer in India with brands like Arokya, ibaco and Hatsun curd touching the lives of over 1 million Indian households. The company is a signatory to RE100, with a target of sourcing 100% renewables for electricity across facilities by 2032.

Hatsun Agro and Fourth Partner Energy joined hands in 2021 to help accelerate the former's Decarbonisation goals. Through a combination of solar, wind and hybrid energy solutions – FPEL is aiming to take Hatsun from 80% to RE100. This case study focuses on the supply of Solar power by FPEL to Hatsun's Maharashtra and Karnataka facilities.

Project execution for a third PPA for supply of **10.6 MW Wind and 7 MW Solar Power** in Tamil Nadu and a fourth PPA for supply of **3.5 MW Solar Power** in Maharashtra are also already underway.

KEY HIGHLIGHTS OF THE 7 MWp PPA BETWEEN HATSUN AGRO & FOURTH PARTNER ENERGY

Karnataka

PPA Capacity 4 MWp	Project Location Atharga, Karnataka	Date of Commissioning 15-02-2023	Total Capacity of solar Park 75 MWp
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Maharashtra

PPA Capacity 3 MWp	Project Location Dhule, Maharashtra	Date of Commissioning 31-03-2023	Total Capacity of solar Park 150 MWp
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HATSUN AGRO'S COMMITMENT TO SUSTAINABILITY & THE ENVIRONMENT

Hatsun Agro has a target of procuring 100% Renewable energy across its facilities in India by 2032. The company's energy mix for industrial processes currently comprises of over 80% from renewable sources like solar power and windmills.

Every HMB (Hatsun Milk Bank) building has a rooftop solar panel and battery that can store 900 watts of power.



ANNUAL ENVIRONMENTAL IMPACT OF HATSUN AGRO



1,79,512 tons
of Carbon Offset



2.26 Cr litres
of Water Conserved









4,611 tons per year
of reduction in Coal



Equivalent to planting
4.4 Lakh Trees

FOURTH PARTNER ENERGY PROJECTS SHOWCASE

75 MWp SOLAR PARK IN ATHARGA, KARNATAKA







	Park Capacity 75 MWp		Park Location Atharga, Karnataka		Substation Type 110/11 kV, Atharga
	Transmission Line Single circuit 110 kV transmission line		SPV Generation** - October 2176200 units kWh		Connectivity Voltage 110 kV

MARQUEE CLIENTS PROCURING CLEAN ENERGY FROM 4PEL's 75 MWp PARK IN ATHARGA, KARNATAKA

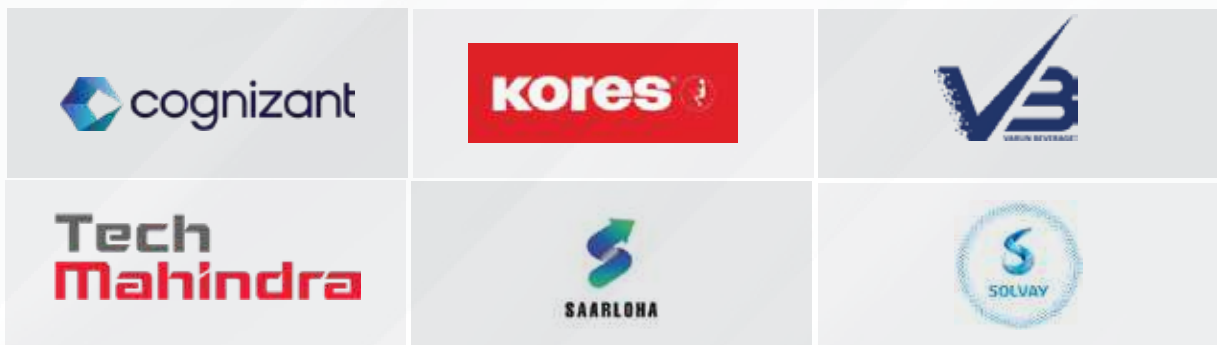


FOURTH PARTNER ENERGY PROJECTS SHOWCASE

150 MWp SOLAR PARK IN DHULE, MAHARASHTRA

	Park Capacity 150 MWp		Park Location Dhule, Maharashtra		Substation Type 132 kV Power Pooling
	Transmission Line 132 kV Line with LILO arrangement		Annual Generation 10,126 MWh		Connectivity Voltage 132 kV

MARQUEE CLIENTS PROCURING CLEAN ENERGY FROM 4PEL's 150 MWp PARK IN DHULE, MAHARASHTRA





OVERCOMING CHALLENGES DURING PROJECT EXECUTION AT ATHARGA & DHULE

Logistics and Construction

Efficiently coordinating equipment, materials, and labor on-site posed a significant challenge during our project execution in Atharga and Dhule. Ensuring minimal disruptions and optimizing efficiency required meticulous planning.

Electrical Infrastructure

The establishment of a secure and efficient electrical infrastructure, connecting solar panels to the grid, presented complex technical challenges. Our team's expertise was instrumental in overcoming these obstacles.

Quality Control

To guarantee optimal system performance, we maintained rigorous quality control standards throughout the construction process. Our attention to detail was especially critical in areas like electrical connections and panel installations.

Regulatory Compliance

Navigating the complex landscape of local, state, and federal regulations and permits was a legal challenge that we successfully surmounted. Our commitment to compliance was unwavering, ensuring the projects' legality and success.

Local Land Acquisition Expertise

Obtaining extensive barren land for renewable energy parks required a multifaceted approach, including proficiency in property rights, legal matters, valuation, negotiation, community engagement and local networking, all vital for project success.

Rainwater Pipelines

During the Land Development Phase, we took great care to address rainwater and storage issues without disturbing existing pipelines. Our responsible land development practices prevented water stagnation and contributed to environmental preservation.

Difficult Land Surface Conditions

The rocky and uneven terrain in Dhule necessitated specialized equipment, particularly the use of Crawler-type drilling machines. This strategic choice greatly enhanced the efficiency of our MMS Pile foundation work.

Underground Cable Line Challenges

When underground cable installation wasn't feasible, we devised innovative solutions. By using above-ground cable installation with additional H-type structures, we effectively overcame challenges in ensuring a reliable electrical network.



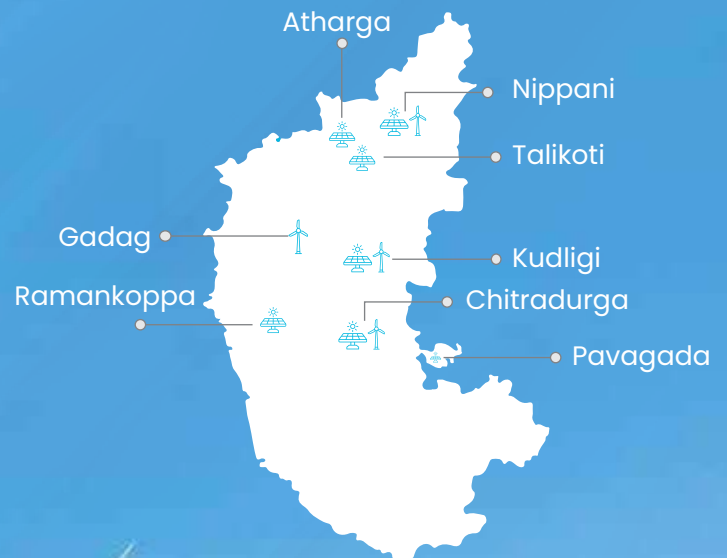
WHY SHOULD BUSINESSES IN KARNATAKA CHOOSE OPEN ACCESS?

Key Policy Highlights for Green Energy Open Access in the State

- ▶ Karnataka has the highest grid tariffs for C&I consumers – switching to renewables will ensure **30–50%** savings per unit
- ▶ It is one of the first States to announce a streamlined policy in-line with the Centre's Green Energy Open Access (GEOA) norms
- ▶ Karnataka has a Provision for monthly banking of green power & timely consumer bill settlement
- ▶ In 2022, Karnataka demonstrated a staggering **679%** YoY increase in its open access solar capacity

FOURTH PARTNER ENERGY'S OA FOOTPRINT IN KARNATAKA

Location	Solar	Wind
Atharga	75 MWp	
Talikoti	72 MWp	
Pavagada	5 MWp	
Ramankoppa	90 MW	
Nippani	60 MW	50 MW
Chitradurga	22.5 MW	25 MW
Kudligi (ISTS Park)	275 MW	300 MW
Gadag (ISTS Park)		300 MW



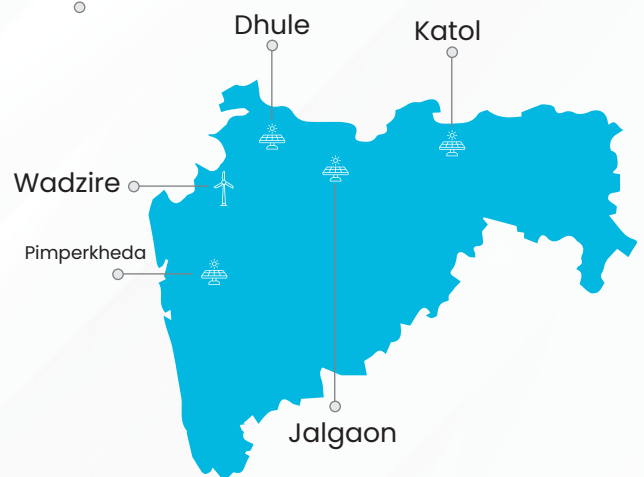
WHY SHOULD BUSINESSES IN MAHARASHTRA CHOOSE OPEN ACCESS?

Key Policy Highlights for Green Energy Open Access in the State

- ▶ The State is amongst the first in the country to notify the Green Energy Open Access norms
- ▶ Maharashtra has amongst the highest Grid Tariffs for Commercial and Industrial entities
- ▶ Waiver on Electricity Duty, Additional Surcharge, Cross Subsidy Surcharge, Fuel Adjustment Charge
- ▶ Provision for Monthly Banking and Clean Power and timely consumer bill settlements

FOURTH PARTNER ENERGY'S OA FOOTPRINT IN MAHARASHTRA

Location	Solar	Wind
Dhule	150 MWp	
Katol	28 MWp	
Pimperkheda	150 MW	
Jalgaon	150 MW	
Wadzire	100 MW	100 MW



INDUSTRIES THAT CAN BENEFIT FROM OPEN ACCESS

Manufacturing, IT, Data Centres, Electric vehicle charging stations, Education and Institutions, Healthcare, agro-processing, mineral-based industries, textiles.

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