
PRESPL®
Energising life, Naturally
From agri residue to reliable energy.
Advancing India's clean-energy transition with biomass innovation.
Biomass Fuel · Steam-as-a-Service · O&M · Bio-CNG / CBG · Climate Advisory
prespl.com

India's fields leave behind millions of tonnes of crop residue every year. We turn it into dependable, low-carbon energy for industry — and into income for rural India.

Our vision

PRESPL will be the largest bioenergy platform across the value chain in India and global markets.

Our mission

PRESPL will design, build, and operate scalable bioenergy solutions to support national and global energy transition goals, integrating robust upstream sourcing, disciplined midstream operations, and dependable downstream energy delivery.

PRESPL will provide EHSG-compliant, cost-effective bioenergy solutions enabling decarbonisation and circular value creation with equitable sharing of resources amongst stakeholders.





The Company

We make biomass work for Indian industry.

A veteran-led bioenergy company, PRESPL transforms agricultural residues into reliable, low-carbon energy for industry.

Since 2011, Punjab Renewable Energy Systems Pvt. Ltd. (PRESPL) has built an integrated biomass ecosystem connecting farmers and Village Level Entrepreneurs (VLEs) with collection centres, processing infrastructure and industrial energy users.

Headquartered in Navi Mumbai, with zonal offices in Mohali and Kolkata, we operate across 22 states. Our strength is in building and running the entire supply chain. This covers resource mapping, procurement, fuel processing, steam generation and plant operations ensuring that our customers work with one accountable partner.

What we do

Biomass mobilisation
VLE development and structured aggregation networks.

Processing & manufacturing
Briquettes and pellets through organised densification.

Industrial energy solutions
BOOT projects, O&M, long-term steam and gas contracts.

Climate consulting
Resource assessments, techno-economic studies, advisory.

Sustainable innovations
Eco-cremation, clean-burning stoves and biochar production systems.

PRESPL in numbers

15 years.
One value chain.

12.11 lakh MT

Biomass handled till date

≈ 1.21 million tonnes of agricultural residue, as of August 2026

Our journey

From a biomass supply start-up to an integrated bioenergy platform.

2011	2013	2015	2016	2017	2018
Biomass supply operations begin	Series A investment by responsAbility	Briquette manufacturing	Industrial steam solutions	Boiler O&M services	First BOOT energy project

Corresponding Biomass aggregated & Revenue generated

BIOMASS	BIOMASS	BIOMASS	BIOMASS	BIOMASS	BIOMASS
14,859 MT	39,113 MT	50,603 MT	31,791 MT	18,476 MT	60,205 MT
REVENUE	REVENUE	REVENUE	REVENUE	REVENUE	REVENUE
₹456 L	₹1,187 L	₹1,737 L	₹1,233 L	₹658 L	₹1,331 L

At a glance*

15+
Years in biomass
Operating since 2011

16 Plants
Projects & plants
5 BOOT · 3 O&M · 8 Briquette Plants.

800 +
Village Level Entrepreneurs
Local partners who lead aggregation

22
States
Offices in Navi Mumbai, Mohali, Kolkata

1,000 +
Villages in our network
Sourcing footprint, 2021

400 TPD (Approx).
Briquetting Plant Installed Capacity.

52,213 tCO_2
Avoided at one BOOT site
SPIL, Toansa · For 2024-2026

2,500+
Green jobs enabled
Direct and indirect, 2021

*Figures as of August 2026

2019	2020	2021	2022	2025	2026
Series B — Neev Fund (SBI Ventures) and Shell	Sun Pharma BOOT plant commissioned; entry into Bio-CNG / CBG	Series C — Mitsui & Co.	US DFC-backed US$10 million guarantee	Biochar and carbon solutions (BiocharIND)	Future Fuels
BIOMASS 1,47,366 MT REVENUE ₹3,454 L	BIOMASS 1,90,045 MT REVENUE ₹3,513 L	BIOMASS 3,59,724 MT REVENUE ₹6,744 L	BIOMASS 4,30,096 MT REVENUE ₹9,317 L	BIOMASS 3,23,025 MT REVENUE ₹8,943 L	BIOMASS 4,74,747 MT REVENUE ₹13,414 L



Lt. Col. Monish Ahuja (Retd.)

Founder, Chairman & Managing Director

Indian Army veteran and NDA alumnus
M.Tech, Nuclear Technology (BARC)
Chairman, Confederation of Biomass Energy Industry of India (CBEII), Board Member, CLEAN Energy Network – w.e.f September 2022, Joint President & Board Member, MSME Business Forum India -w.e.f July 2024 , Global Joint President (Energy Sector), MSME Chamber of Commerce and Industry of India (MSME CCII) -w.e.f August 2024, Patron, Progressive Biochar Society w.e.f 24th June 2025, Professor of Practice (Honorary), The School of Leadership, Kalinga Institute of Industrial Technology (KIIT), Bhubaneswar w.e.f 26th July 2025, Co-Chair of the Trade Promotion Council of India - National Bioenergy Committee 2025-26,
Member of CII National Bioenergy Committee 2025-26.

“

Our philosophy has always been to build an ecosystem rather than simply supply biomass.

When I left the Army in 2010, I saw that India’s bioenergy sector was not held back by technology. It was held back by the absence of organised, reliable biomass supply chains. PRESPL was founded in 2011 to build exactly that.

Fifteen years on, we work with more than 800 Village Level Entrepreneurs across 22 states and have handled over 12 lakh tonnes of agricultural residue. We run steam, briquetting and plant-operations contracts for some of India’s most demanding manufacturers. At our first BOOT plant, for Sun Pharma, biomass steam displaced more than 15,000 tonnes of furnace oil in its first two years.

We bring a soldier’s discipline to energy: safety first, clear accountability and delivery on schedule. Our Mission Zero commitment — zero incidents, zero damage, zero compromise — applies to every site we run.

The opportunity ahead is large. Biomass co-firing, compressed biogas and carbon markets now have clear policy support, and industry wants dependable ways to decarbonise heat. We are growing our briquetting network, scaling biochar through BiocharIND and partnering on CBG projects.

For us, success is measured not only in tonnes supplied or energy delivered, but also in stronger rural livelihoods, cleaner fields and reliable industrial operations. As we grow, we remain committed to ensuring that farmers, village entrepreneurs and customers share in the value we create.

We invite industry, investors and government to build this ecosystem with us — one that turns residue into energy, and energy into shared prosperity.

Lt. Col. Monish Ahuja (Retd.)
Founder, Chairman & Managing Director

Leadership & investors

Led by veterans. Backed by institutions.

Founders



Lt. Col. Monish Ahuja (Retd.)

Founder, Chairman & Managing Director

Established PRESPL with a vision to transform agricultural residues into a high-value resource for India's clean-energy future. Under his leadership, PRESPL has grown into one of India's leading biomass supply chain and bioenergy companies. An Indian Army veteran and NDA alumnus, he holds an M.Tech in Nuclear Technology from BARC and has earned the moniker of Biomass Energy Man of the Year, being a passionate proponent of green energy.



Late Mr. Vini Ahuja

Founder

Laid the foundation of PRESPL's legacy by establishing Bermaco Group in 1963, focused on power-plant equipment manufacturing and EPC, including a 165 MW power project at Kochi. His pioneering spirit continues to inspire PRESPL's mission.

Board of Directors



Dr. Bartholomeus Suijkerbuijk

Nominee Director

15+ years in global business development and technology leadership, including Chief of Staff to Shell's CTO and Global Head of Partnerships. PhD in Chemistry and Catalysis; Business Administration, Erasmus University.



Mr. Sudhakara R. Rao

Independent Director

35+ years in oil and gas across retail marketing, dealer-network development, brand management and forecourt revenue optimisation. Chartered Accountant.



Mr. Jai Shah

Nominee Director

More than a decade in fund management, investment banking, equity research and strategic advisory, including private equity transactions and fundraising. B.Com; MBA (Finance).



Mr. Shashi Shekhar, IAS (Retd.)

Independent Director

Played a key role in India's energy and environmental reforms: drafted the Energy Conservation Act, led the Bureau of Energy Efficiency and served as Secretary, Water Resources.

Institutional investors, Series A to Series C

responsAbility · SBI Ventures · Shell · MITSUI & CO.

Capital, strategic expertise and global networks from four institutional partners — complemented by a US$10 million guarantee facility backed by the US International Development Finance Corporation (2022).

One integrated partner - from biomass to bioenergy.

We build, operate and scale end-to-end biomass networks that connect farmers and VLEs with collection centres, processing hubs and industrial energy users — a seamless farm-to-industry value chain.

Eight verticals. One value chain.

Upstream
Securing the fuel

Biomass assessment studies
Feasibility, viability and climate-impact studies.

Supply chain operations
Aggregation networks and reliable fuel supply.

Midstream
Making it usable

Biomass densification
Briquettes and pellets manufactured to specification.

Quality control & storage
Screening, storage and dispatch through regional depots.

Downstream
Delivering the energy

BOOT for steam-at-cost
Build-own-operate-transfer boiler projects.

Operations & maintenance
O&M for biomass boilers and industrial thermal systems.

EPC & CBG plants
Turnkey EPC of Bio-CNG and green infrastructure.

Climate consultancy
Decarbonisation, feasibility and ESG transition.

Also: an online marketplace for biomass by-products and pellet stoves, supporting the core chain.



Hub & spoke model



Decentralised sourcing · Centralised processing · Reliable delivery

01 Village-level entrepreneurship
Local partners lead aggregation.

02 Biomass sourcing
Systematic collection at farm level.

03 Aggregation network
Decentralised collection centres.

04 Processing infrastructure
Briquettes and pellets to specification.

05 Supply chain integration
Quality, storage and logistics.

06 Industrial energy delivery
Reliable supply to the plant.

Biomass supply chain

Rural residue, industrial-grade fuel.

Our farm-to-fuel-feed chain turns loose agricultural residue into consistent, specification-grade fuel — collected locally, processed centrally and delivered on schedule.



Farm to fuel feed

01

Agri-residue

Paddy straw, cane trash, cotton stalk and husks, etc.

02

Harvesting & baling

Balers and rakers deployed by VLEs.

03

To collection centre

Village-level aggregation and weighment.

04

Storage in fuel depot

Covered depots protect fuel quality.





400 TPD

Briquetting capacity installed across our plants (2024).

India's first

paddy-straw briquetting plant — Patiala, Punjab: 100 TPD, commissioned in December 2020 with the Punjab State Council for Science & Technology, with PRESPL as private partner.

40 TPD

Briquette plant in Goa, operated and maintained by PRESPL for GEDA.

The VLE Model

PULL MODEL | VLE-led supply

Village Level Entrepreneurs own and operate balers, aggregate residue from surrounding farms and supply biomass to PRESPL.

PUSH MODEL | PRESPL-led collection

PRESPL deploys its equipment to farms to collect and bale agricultural residue, then transports the biomass to its collection centres or plants.

Agro-residues we handle

- Paddy straw
- Rice husk
- Mustard husk
- Cane trash
- Cotton stalk
- Danda kutti

05

Shredding

Size reduction for uniform combustion.

06

Briquette production

Binderless densification to specification.

07

Transport to plant

Scheduled logistics to the plant gate.

08

Fuel-feed to boiler

Consistent fuel for steady steam.



Steam-as-a-Service

Steam, without the capex.

Under our Build-Own-Operate-Transfer (BOOT) model, PRESPL finances, engineers, builds and runs the biomass boiler. You buy steam at a pre-agreed rate. At the end of the term, the asset transfers to you.

01 Build

PRESPL finances, engineers and constructs the plant.

02 Own

PRESPL holds the asset and the fuel-supply risk.

03 Operate

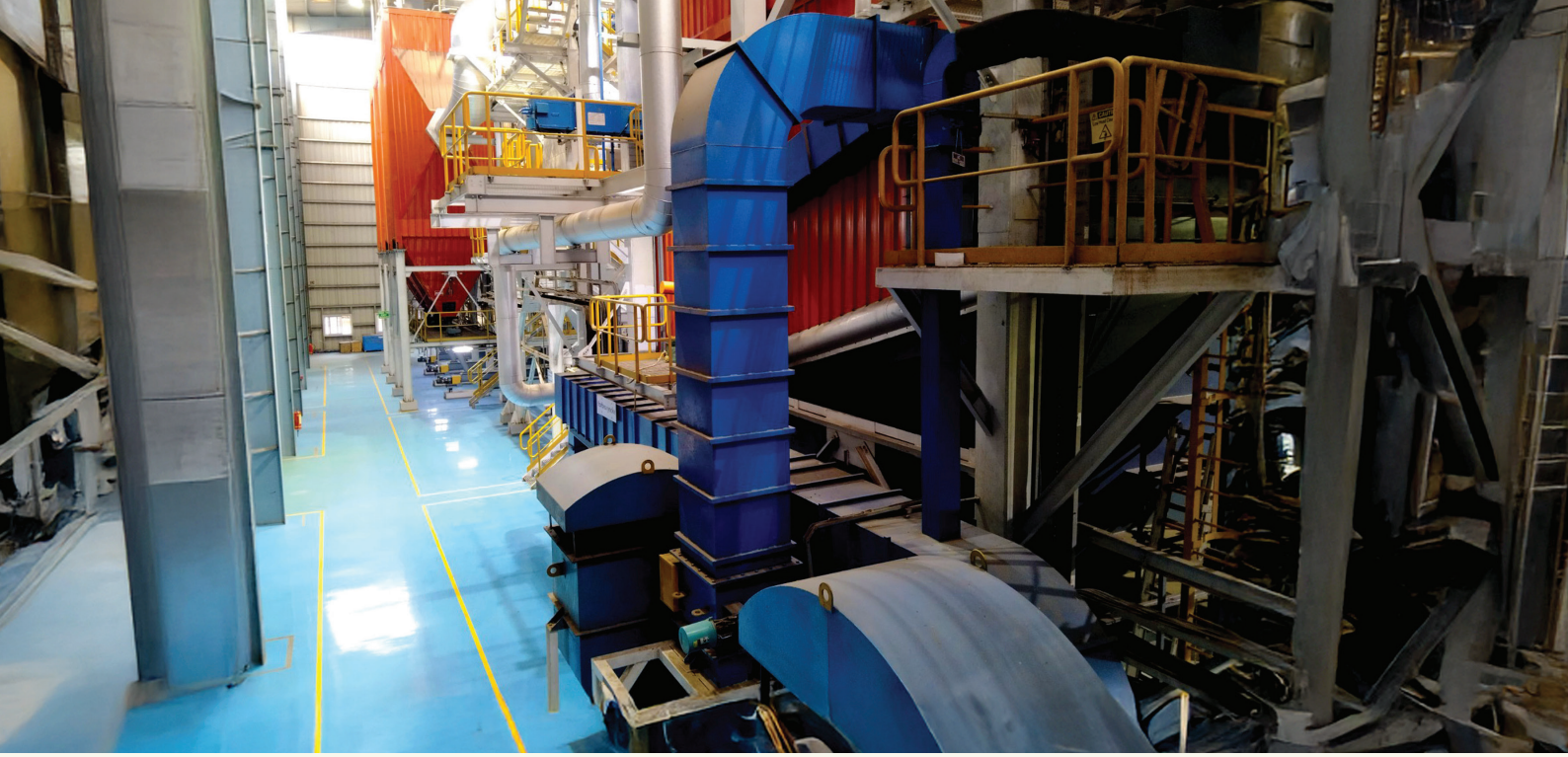
Long-term steam contract; you pay per tonne of steam.

04 Transfer

The boiler is handed over at the end of the term.

Owning a boiler vs PRESPL Steam-as-a-Service

	Owning a boiler	PRESPL Steam-as-a-Service
Upfront capital	Client funds boiler and infrastructure	None — PRESPL invests
Fuel sourcing	Client's risk and effort	Integrated PRESPL biomass supply
Operations & manpower	Client's team	PRESPL's trained O&M crew
Compliance (EHSG, PCB)	Client	PRESPL
Carbon & cost	Fossil-fuel price and emissions exposure	Lower carbon, more predictable cost
What you pay	Capex + fuel + O&M	Steam, at a pre-agreed rate



Operations & maintenance

Disciplined operations. Dependable steam.

End-to-end O&M for biomass steam boilers, Bio-CNG / CBG facilities and industrial thermal systems — run by veteran-led teams with military discipline.

Plant operations
Load management, combustion optimisation and steam-parameter control.

Fuel management
Biomass sourcing, fuel planning, briquetting and SFR control.

Preventive maintenance
Inspection programmes, shutdown planning, spares and audits.

Workforce management
OEM-aligned maintenance, trained deployment and statutory compliance.

EHSG compliance
EHSG systems, PCB compliance and operational reporting.

Performance optimisation
Data-driven monitoring of efficiency, reliability and cost.

>97%

Boiler availability over three years — 30 TPH biomass boiler operated by PRESPL at Deccan Fine Chemicals, Goa (client testimonial).

104 TPH

Combined steam capacity under PRESPL BOOT and O&M contracts (2021).



Case study · Sun Pharma, Toansa

Proven at scale

India's first* 100% loose-biomass-fired BOOT boiler.

*As of August 2026.

Client
Sun Pharmaceutical Industries Ltd (SPIL), Toansa, Punjab

Commissioned
20 March 2020

Capacity
1 × 13 TPH steam

Model
BOOT — 10-year steam purchase agreement

Technology partner
Forbesvyncke Pvt. Ltd. — Make in India engineering

Project finance
IREDA

The challenge

Replace furnace oil with a renewable fuel for a critical pharmaceutical steam load — with no capital outlay or fuel-supply risk for the client.

Our solution

A 13 TPH boiler designed to fire 100% loose agro-residue — paddy straw, rice husk, mustard husk and danda kutti — sourced from villages within about 60 km through PRESPL's VLE network.

Local impact

~60 km
Sourcing radius — residue from surrounding villages

16+
VLE partners supplying the plant

100+
Green jobs created locally

Source: PRESPL project data, 2023.

Proven at scale

Results in the last two years

FY2024-25 and FY2025-26

6.92 lakh t
Renewable steam generated

7,97,771 t
Agro-residue used as fuel

3,000 t / year
Fossil fuel displaced

7.26 lakh tCO_2e
Emissions avoided

₹156 crore / year
Fuel-cost saving

3,46,103 t
Avg. steam generated per year

Year-wise comparison, tonnes (t)



3,98,886 t
average agro-residue used as fuel per year

+43%
growth in renewable steam, FY 2025-26 over FY 2024-25

+47%
growth in agro-residue used, FY 2025-26 over FY 2024-25

Source: PRESPL operating data for PRES Clean and Green Energy Pvt. Ltd. c/o Sun Pharmaceutical Industries, Toansa, FY2024-25 and FY2025-26. Emissions avoided (7,26,487 tCO_2e) are for the use of 7,97,771 t of biomass as fuel.

CBG & climate advisory

Compressed biogas, delivered end to end.

Integrated Bio-CNG and CBG solutions across project development, EPC execution and operations — backed by the biomass supply chain that feeds them.



Representative image

Agro-residue feedstock → Pre-treatment → Anaerobic digestion → Gas upgrading → CBG + organic manure

- **Project development & EPC**
  Design, infrastructure implementation and commissioning.
- **Feedstock integration**
  Sourcing strategies and sustainable feedstock planning.
- **Plant operations**
  Process monitoring and performance optimisation.
- **Lifecycle management**
  Maintenance planning and compliance management.

In November 2025, PRESPL signed an MoU with Organic Recycling Systems Ltd (ORSL) to develop CBG projects in India and overseas, with PRESPL as the biomass supply-chain partner.

Climate consultancy

Decarbonisation, measured.

Accelerating the journey to net zero through data-driven advisory, biomass intelligence and implementation-focused strategy.

01 **Assess**
Resource assessment, energy profiling and emissions baseline.

02 **Strategise**
Feasibility analysis, fuel-transition planning and roadmap.

03 **Implement**
Technology deployment, fuel switch and optimisation.

04 **Measure**
DMRV, performance monitoring and carbon reporting.

Biomass expertise, technical advisory and an integrated supply chain — in one partner.

One network. Many applications.

The same biomass network that fuels an industrial boiler can just as easily serve a range of other clean-energy applications.



Eco-cremation

Now implemented in multiple states, our eco-cremation solution replaces 300–350 kg of firewood per cremation with biomass briquettes — enabling cleaner combustion, lower emissions and saving at least two full-grown trees per cremation.

10,000+
eco-cremations across 8 cities

90%+
adoption across Aurangabad's 34 crematoria (2025)



Biochar

Our low-tech pyrolysis process converts agricultural residue into stable carbon that improves soil health — advancing climate-smart farming for farmers and the environment.

5 × 100
TPD biochar plants planned by BiocharIND, launched in April 2025 with APChemi and Intellecap

1.06 lakh
tCO_2 a year: potential carbon removal



Biomass cooking

At a preliminary stage, Eco-Chulha, Eco-Tandoor and Eco-Stove are gaining acceptance in community kitchens as pellet-fired alternatives to LPG, coal and firewood.

Up to 40%
fuel-cost saving versus diesel or LPG (company estimate)



Our Commitment

Mission Zero.

Zero incidents. Zero damage. Zero compromise.

Environment, Health, Safety and Governance are integral to every stage of PRESPL's operations. Mission Zero focuses on preventing major incidents, lost-time injuries and regulatory non-compliance — it represents our safety goals and our ongoing commitment.

Risk management
Safe work practices, proactive risk reporting and timely escalation of hazards.

Governance
Strict SOP adherence, PPE compliance and permit-to-work / LOTO controls.

Assurance
Disciplined equipment operation, effective housekeeping and continuous vigilance.

Culture
Every employee is empowered to stop work when an unsafe condition is identified.

Trusted across Industrial Sectors

Pharmaceuticals · Chemicals · Food & beverage · Power & utilities · Pulp & paper · Distilleries & breweries · Glass · Cement · Steel

BIOMASS SUPPLY (ANNUAL CONTRACT)

ITC Limited · Britannia · Hindustan Unilever Limited · ipca A dose of life · PepsiCo · JKCement · Coca-Cola Hindustan Coca-Cola Beverages Pvt. Ltd. · Carlsberg · Bira 91 · UB Group · CDB Group · HP

LONG TERM STEAM SUPPLY BOOT & O&M

Sun Pharma · Alivus Life Sciences Evolve every day · deccan Fine Chemicals (India) Pvt. Ltd. · Lasons India Private Limited Since 1979 · L'Oréal India · National Dairy Development Board

CONSULTANCY

Jindal Power · JSW · Tata Steel · Mitsui & Co., Ltd. · NRL Numaligarh Refinery Limited A Government of India Enterprise · am green · UPL OpenAg · ETG · ACME Solar · LanzaTech · Aditya Birla Hindalco · RRECL · ONGC MRPL

Awards & recognition



2026

CII 10TH NATIONAL ENERGY EFFICIENCY CIRCLE COMPETITION 2026 – BEST CASE STUDY ON LOW CARBON / CARBON NEUTRAL INITIATIVE / ADOPTION OF ROADMAP FOR NET ZERO.



2026

OUR POWER, OUR PLANET STARS 2026



2026

13TH EDITION OF CII'S NATIONAL AWARD FOR ENVIRONMENTAL BEST PRACTICES 2026



2025

1ST BSG AWARD FOR SUSTAINABILITY 2025



2025

CII AWARD 2025 FOR BEST CASE STUDY ON LOW CARBON / CARBON NEUTRAL INITIATIVE



2025

CII AWARD 2025 FOR INNOVATIVE CLEAN & GREEN TECHNOLOGY & SOLUTION PROVIDER

2024
RECEIVED A GRADE 2 RATING BY BUREAU OF ENERGY EFFICIENCY TO PRESPL FOR BEIGH ENERGY

2023
ENERGY SERVICE COMPANY (ESCO GRADE 2) 2023 BY SIDBI-WORLD BANK

2022
ENERGY COMPANY OF THE YEAR, ET ENERGY WORLD

2022
ACKNOWLEDGED BY MNRE FOR ENERGY COMPACT COMMITMENT

2022
INNOVATION "BIO ENERGY COMPANY OF THE YEAR" AWARD

2021
THE BUSINESS LEADERSHIP AWARDS 2021

2021
THE SUSTAINABILITY SUMMIT SOCIAL ENTERPRISE AWARD

2021
UNITED NATIONS RACE TO ZERO CAMPAIGN

2020
UNDP SDGCC ACTION AWARDS 2020 – FOR ENVIRONMENT SUSTAINABILITY (INDUSTRY)

2019
THE PRERANA ENERGY PROFESSIONALS

2019
MISSION INNOVATION NATIONAL CHAMPION 2019

2019
SME BUSINESS LEADERS OF INDIA FUTURE 2020 CONFERENCE

2019
RENEWABLE ENERGY INDIA AWARDS 2019

2018
DIGITAL TRANSFORMATION IN OIL & GAS INDUSTRY

2018
INDIAN FEDERATION OF GREEN ENERGY

2018
IETE INTERNATIONAL CONFERENCE ON RECENT TRENDS IN SUSTAINABLE

2017
POWER-GEN INDIA & CENTRAL ASIA

2017
50 MOST IMPACTFUL GREEN LEADERS

2016
RENEWABLE ENERGY INDIA AWARDS 2016

2015
IICA INNOVATIONS & IPR AWARD

2015
BEST PAPER AWARD

2014
UDYOG RATAN AWARD

2013
RENEWABLE WORLD 2013

2013
ENERGY & ENVIRONMENT FOUNDATION 7TH REI 2013 EXPO

Our presence

22 states. One dependable partner.

Our offices

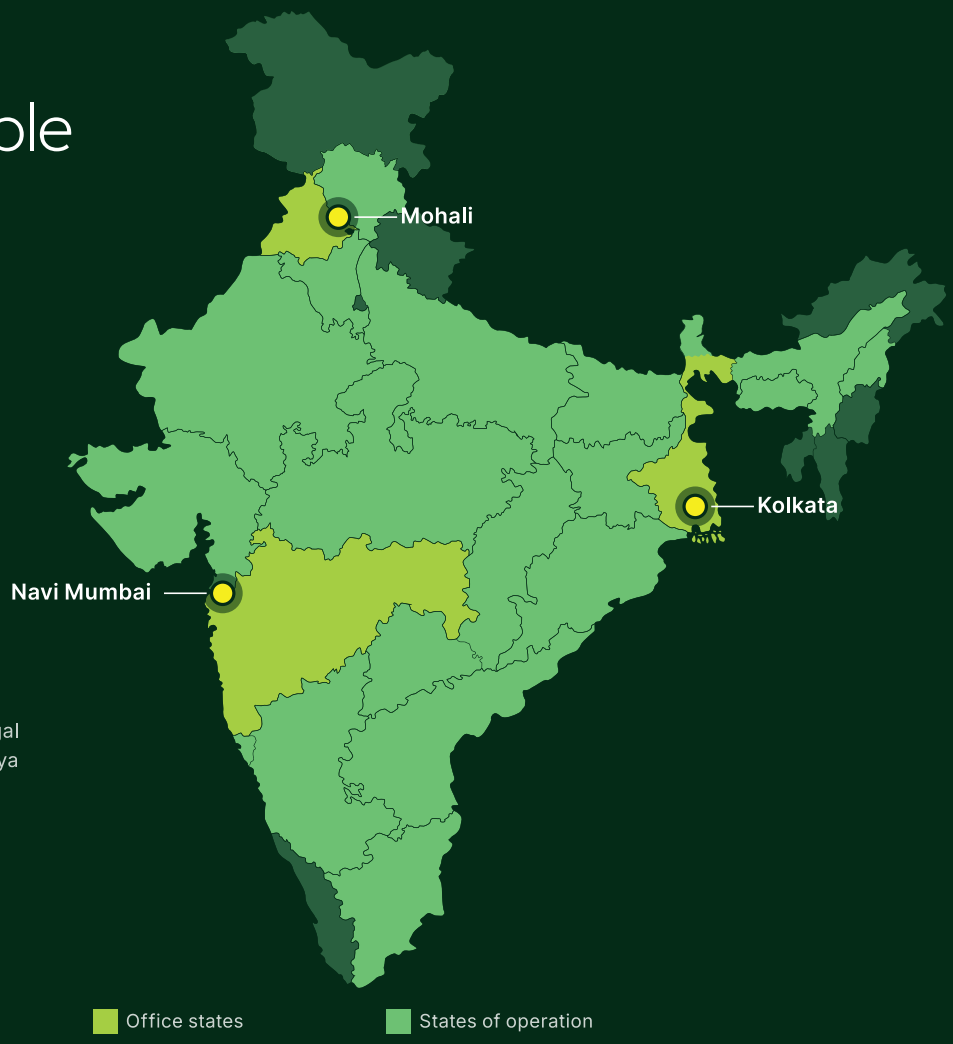
Navi Mumbai
Registered office

Mohali
Punjab

Kolkata
West Bengal

Where we operate

Punjab · Haryana · Himachal Pradesh · Rajasthan · Uttar Pradesh · Bihar · Sikkim · Assam · Nagaland · Meghalaya · West Bengal · Jharkhand · Odisha · Chhattisgarh · Madhya Pradesh · Gujarat · Maharashtra · Goa · Telangana · Andhra Pradesh · Karnataka · Tamil Nadu



Let's talk about your energy transition.

Head Office | Registered Office | South Zone Office

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Sahibzada Ajit Singh Nagar, Punjab 140 307, India

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