



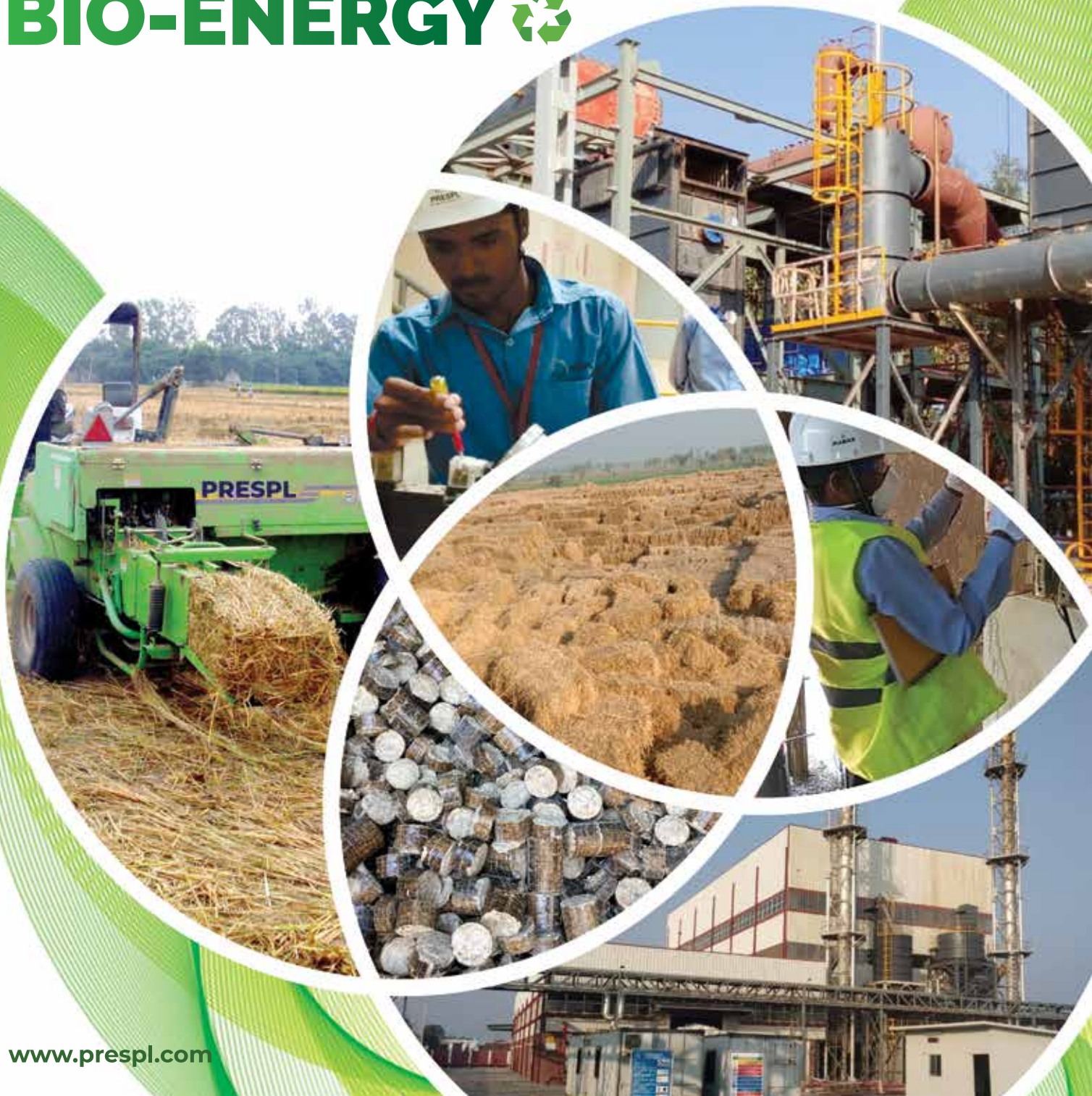
# PRESPL

Punjab Renewable Energy  
Systems Private Limited



## Green Smiles for Clean India and a Better World

The Biomass People with Total Solutions for  
**BIO-ENERGY** ♻️

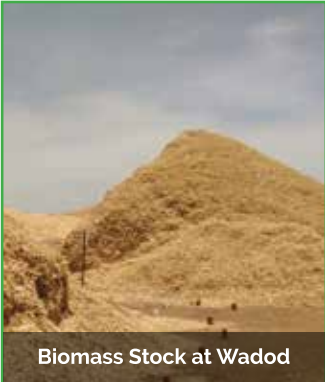




About

# PRESPL

**Punjab Renewable Energy Systems Private Limited (PRESPL)** is the 'Leading Indigenous' Indian Entrepreneur-cum-Contributor in Biomass Supply Chain Management, since 2011. PRESPL has served the Farmers and the Industry with amicable Bio-Energy and Biomass Supply Chain solutions through acceptable business models; while enabling the Villagers to gain entrepreneurial acumen. PRESPL has spearheaded the Biomass Sphere by contributing to Policy Making, Technology Enhancements and has also taken up intricate and detailed Biomass Assessment Studies, across the spectrum of India and some abroad. Our forte is creation of Biomass Supply Chain by enabling Village Level Entrepreneur and Channel Partners; with supply of Raw Biomass, Briquettes and Pellets. We also undertake Operations & Maintenance (O&M) and Build Own Operate and Transfer (BOOT), long tenor contracts to supply Steam and Electricity. PRESPL also undertakes Supply Chain Management and/ or O&M for Power, Co-Generation, Bio-Gas, Bio-CNG, Bio-Ethanol Plants and other Bio-Fuels etc.



## VISION

**PRESPL will be the largest Entrepreneurial Biomass Supply Chain Company in India**

## MISSION

**PRESPL will develop optimised scales for Biomass-based Bio-Energy Projects in India and abroad; covering the entire existing and evolving Bio-Energy Spectrum including Bio-CNG, Bio-Gas, Bio-Ethanol, Power, Co-Gen & Supply to Briquette & Pellet Manufacturing Units; duly in sync with Policies & Opportunities and through strict HSSE / ESG / PCB Norms and Compliances**

# BOARD OF DIRECTORS

# OUR INVESTORS

## FOUNDERS



### Late Mr. Vini Ahuja

Late Mr. Vini Ahuja, a Science Graduate, started Bermaco Group of Companies in 1963. It commenced operations in the form of a Manufacturing/ Fabrication of Power Plant

related equipments. The Group then moved to EPC (Engineering, Procurement and Construction) of Power Projects and handled 165 MW Power Project at Kochi, South Western Coast of India. Mr. Vini Ahuja was a passionate person to have adopted a Vision of converting Biomass into Bio-Energy. He represented Thomassen International, GE Business Associates from the Netherlands for Gas Turbines.



### Lt. Col. Monish Ahuja

Currently, the Managing Director of Punjab Renewable Energy Systems Private Limited (PRESPL). He is an alumnus of the prestigious National Defence Academy,

Khadakwasla, Pune. Post Graduate (M.Tech) in Nuclear Technology from Bhabha Atomic Research Centre in 2006. Bachelor of Technology (B.Tech) in Mechanical Engineering from JNU in 2002, Bachelor of Science (B.Sc) from JNU in 1994. Bestowed with the coveted Biomass Energy Man of the Year Award, he is spearheading the Biomass Movement in India with his ongoing efforts of harnessing the agro residue potential in India.



**Mr. Sudhakara R. Rao**  
Independent Director

Reputed figure in the Oil and Gas Industry for the last 35 years. Expert in retail marketing, dealer selection, brand management, maximising forecourt revenues to name a few. A qualified Chartered Accountant.



**Mr. Akshay Panth**  
Nominee Director  
Neev Fund

13 years of experience in Private Equity, Principal Investments and Advisory roles for leading domestic and international investors. A post graduate from IIM, Lucknow and Bachelor of Commerce from Bangalore University.



**Mr. Shashi Shekhar**  
IAS (R)  
Independent Director

An IAS officer with more than 10 years of experience in Power and Renewable Sector. Currently, he is promoting various renewable energy projects. A graduate in Geology from Patna University.



**Mr. Akshay Dua**  
Nominee Director  
responsAbility

Over 12 years of experience in Private Equity and Investment Banking. Leads the fund's efforts in Asia-Pacific for private equity investments for responsAbility. An MBA from IIM, Lucknow and hold's a Bachelor's Degree in Engineering from University of Pune.



**Ms. Debanjali Sengupta**  
Nominee Director  
Shell Ventures B. V.

An Automotive, Oil & Gas industry expert with 18 years of work experience. Currently, she is managing Global Business vertical in Non Fuel business of Shell. MBA from IIM, Calcutta and Post Graduate in Economics from Jadavpur University.



**Mr. Nandan Agrawal**  
Director

The MD of NPL, WHO set-up India's first AdBlue manufacturing plant in 2011, through a Joint Venture with Kruse Automotive GmbH, Germany. He has a Bachelor's Degree in Chemical Engineering from Mumbai University.

# OUR JOURNEY

2011

Incorporation of PRESPL  
Biomass Supply Commenced

2013

Series A  
Funded by  
responsAbility

2015

Entered Biomass  
Briquette Manufacturing  
Sector

2016

Entered Steam  
Supply Contract  
Business

2017

Boiler O&M  
Contracts

2018

BOOT Contracts

2019

Series B  
Funded by Neev Fund  
& Shell

2020

Bio-CNG/  
CBG Projects

responsAbility  
Zurich



NEEV FUND



Invested by



Business Domain

# WHAT WE DO



Raw Biomass, Biomass  
Briquettes / Pellets  
Production & Supply  
Chain Management



Industrial Boiler  
Operation & Maintenance



Steam Supply  
Contracts



Build Own Operate  
& Transfer (BOOT)  
Projects



Biomass Assessment &  
Technical Consultation



Operation &  
Maintenance of  
Compressed Bio-Gas  
Plants



Agriculture Waste to  
Bio-CNG Projects

## Our USP

### Biomass Supply Chain Management

PRESPL is one of the largest organised player in the Bio-Energy Supply Chain Management (SCM); successfully catering to Biomass requirements of IPPs (Independent Power Plants), Captive & Co-Generation Power Plants & processing plants covering aggregation, processing, storage & transportation; dealing with farmers, through VLEs till industry; with adequate earnings and profits for all stakeholders.



Rice Straw Aggregation & Baling in Punjab



Chipped Biomass for Briquetting Plant in Wadod,  
Aurangabad Maharashtra



O&M Plant at Cipla, Kurkumbh, Maharashtra

## Biomass Briquetting & Pelleting

An eco-friendly process to convert agriculture, forestry and industrial waste into solid blocks of bio-fuel. Cylindrical-shaped Briquettes and Pellets are made with high mechanical pressure; using Binderless Technology; removing the need for any chemicals.

For efficient usage of biomass, it is converted into Briquettes and Pellets at PRESPL's Plants for ease of transportation over longer distances and for end-use as Bio-Fuel for Process Boilers and Furnaces.

### Comparison of Briquette and Other Fuels

Items	Diesel Oil	Furnace Oil	Natural Gas (PNG)	Electricity	Wood Pellets	Biomass Briquette	Coal
Heat Value Units	10200 Kcal/Kg	9600 Kcal/Kg	8500 Kcal/M <sup>3</sup>	860 Kcal/Kw	4100 Kcal/Kg	3500 Kcal/Kg	6000 Kcal/Kg
Unit price of Fuel (INR)*	70	32	44	7.5	8.5	6	8
Equivalent Briquette Kilogram	0.34	0.36	0.41	0.25	0.85	1	0.58
Equivalent Price of Briquettes for same Heat Value (INR)	17.5	16.5	14.6	1.5	7	1	10.28
Net saving using Briquettes in lieu of Fuel	52.5	15.5	29.4	6.0	1.5	6	-2.28
The Saving Energy Rate (Briquette compared to other fuel)	75%	49%	67%	80%	17%	NA	-28.5

## BOOT (Build, Own, Operate & Transfer) for Boilers & Co-Generation Plants

Build, Own, Operate and Transfer (BOOT) Model; wherein a project (Boiler-based / Co-Generation / Bio-CNG / Bio-CBG etc) is installed and operated by PRESPL over long-term contract (10 to 15 years or more); while the offtake is billed as per Contract Rates. The client accrues savings of Capital Investment for Boilers & Accessories etc.

All additional benefits of the Operation & Maintenance Contracts, including major reduction in costs, freeing up of manpower & increased efficiency of the system in entirety; with responsibility shifting to PRESPL from the are accrued by the Clients.

Construction of BOOT Project for Sun Pharmaceutical Industries Ltd., Toansa, Punjab







## Operations & Maintenance Contracts

The Operations and Maintenance (O&M) projects are for Boiler-based / Co-Generation / Bio-CNG / Bio-CBG etc industries. All Services are performed by qualified and trained employees or, sub-contractors of PRESPL; complying with All Applicable Norms & Regulations; with competency to carry out the assigned tasks. The offtake is generally in the form of Process Steam and billed at the rate of the steam supply. PRESPL performs the services in a manner to comply with Laws, Regulations and Permits and to deliver value-added services to its Clients. PRESPL may sub-contract part of the responsibilities to its approved operators.

## Biomass Assessment & Technical Consultation

Conducted on a commercial basis for major industries including MNCs; both in India and abroad; these studies deal with regional and national greenspaces and give insights into the Biomass Sphere with ample leads into the future scenarios; all tailor-made to suit the Client. PRESPL is able to build Supply Chain Management models and offer pricing for it over long tenors.

## Bio-Plantation

A commitment-oriented drive of PRESPL; which fosters aims of the Government as well as the industry.

# FUTURE PROJECTS



Bio-Gas



Bio-CNG



Bio-Ethanol



Bio-Plastic



Bio-Furniture



Bio-Fuel



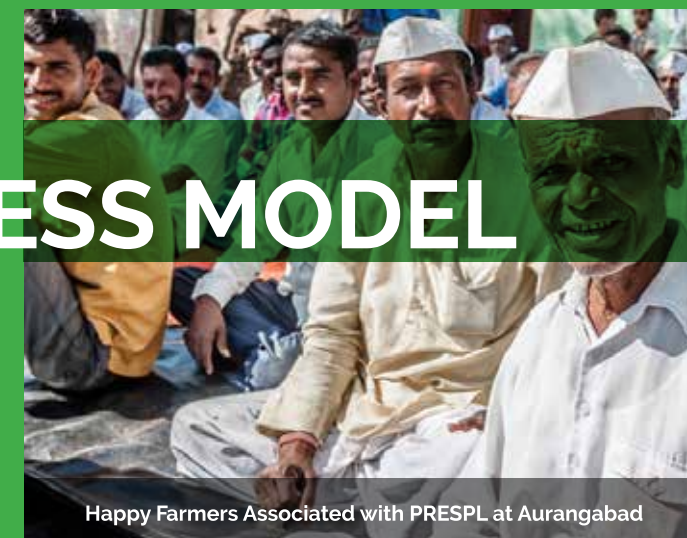
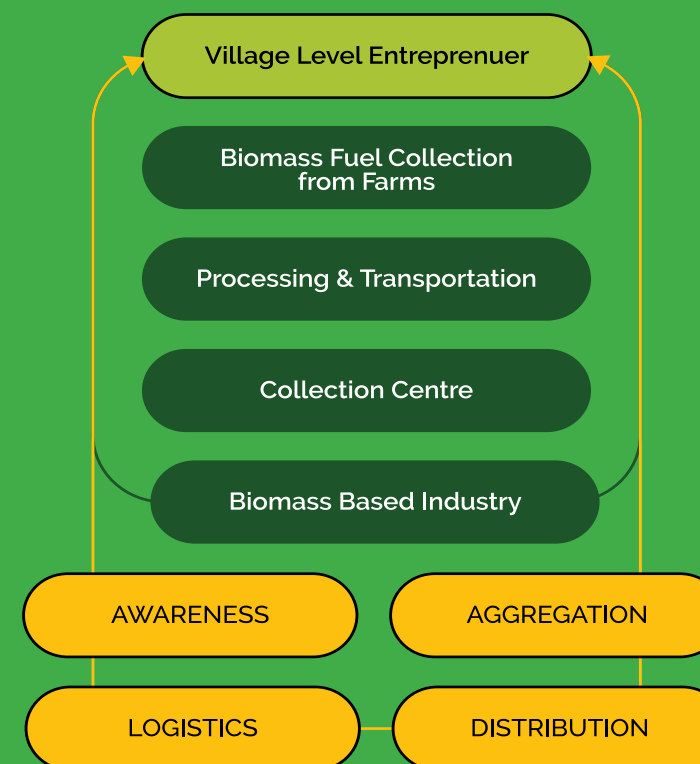
Bio-Hybrid Project



Village Level Entrepreneurs : Our Strength

## Village Level Entrepreneurs

# PRESPL BUSINESS MODEL

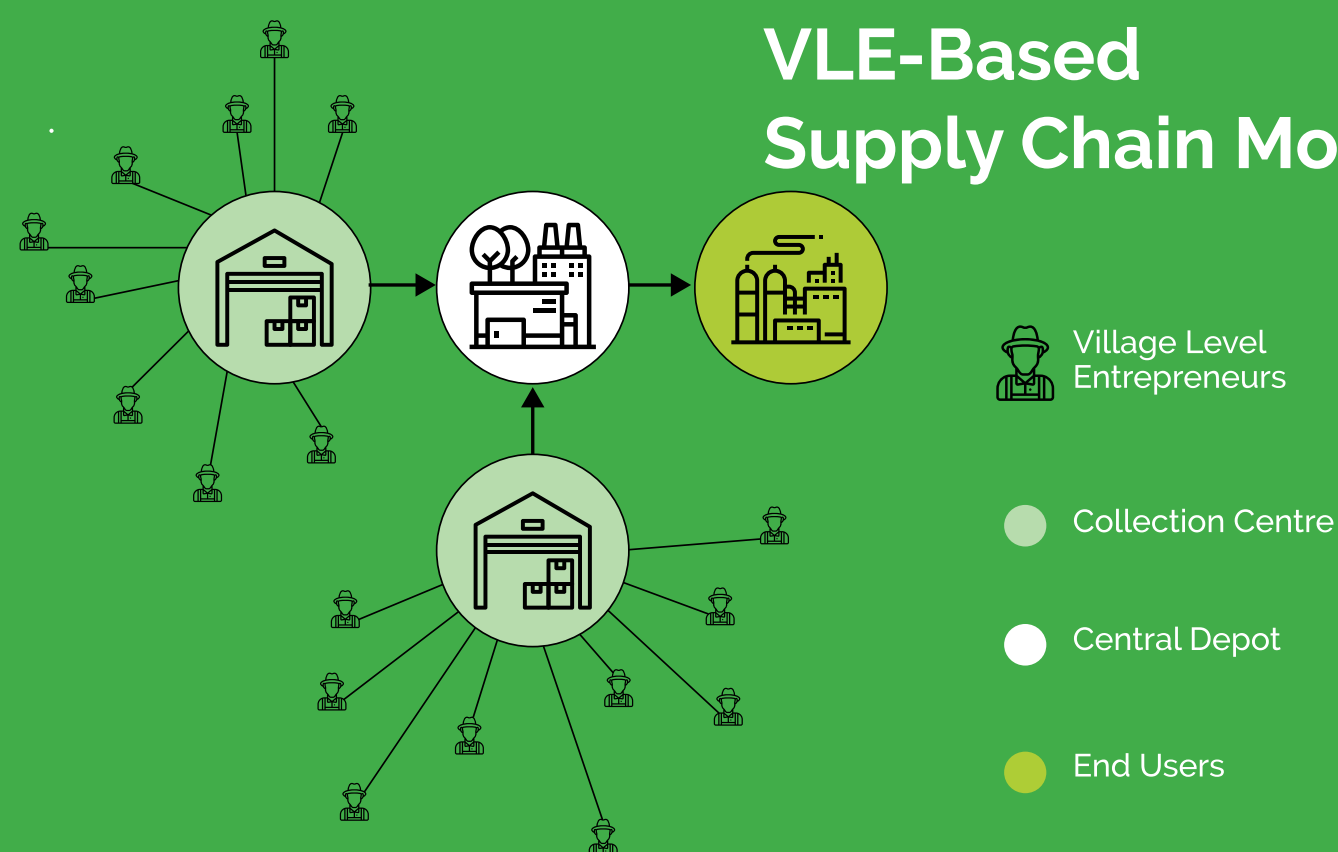


Happy Farmers Associated with PRESPL at Aurangabad

## Snapshot of Business Growth

- Biomass Supply Chain Management
- Biomass Briquettes / Pellets
- Industrial Boiler Operation & Maintenance
- Steam Supply Contracts
- Build Own Operate & Transfer (BOOT) for Bio-Fuel Projects
- Biomass Assessment & Technical Consultation
- Agricultural / Industrial Waste to Bio-CNG Projects
- O&M of Compressed Bio-Gas Plants

## VLE-Based Supply Chain Model



Village Level Entrepreneurs

Collection Centre

Central Depot

End Users



# BENEFITS



## Financial Benefits

1 Farmers get added double income and profits from the sale of agri-residue; with average per capita income growth by USD 1000 to 2500

2 Employment benefits : 750 to 1500 jobs per day are created only through the biomass supply chain, till the delivery point; depending on the type of feedstock used

3 Product sales for manufacturing sector dealing with manufacture of biomass sphere products and spares : assured for a long-term in this sector

4 High Internal Rate of Return (IRR) benefits for the Biomass Supply Chain companies and Investors is assured

5 Improving environment by reducing use of fossil fuels, bettering health, ushering clean energy compliances, cost savings etc; thereby accruing huge savings leading to better standard of living too

6 Cost saving of huge expenditures on health and environment

# KEY IMPACTS



1000+ villages participation in the last seven years and growing



500+ Village Level Entrepreneurs (VLEs) are Partners / Channel Partners



5 Lac+ metric tonne of biomass aggregated in the last 8 years



Awareness for processing agri-residues into the biomass supply chain enhanced in more than 100 districts including in Punjab, Maharashtra, Rajasthan, Karnataka, Goa, Haryana, North East etc



Generated 2500+ green jobs of varied nature in last few years for rural India



Approximately, 300 women are employed as workforce and in management posts too.



Approximately 4 Lac units of process steam supplied to industry in last 3 years



Carbon footprint reduced approximately by 0.25 MMT



Major Indian and global players like PepsiCo, Cipla, Sun Pharma, Ambuja etc. contributed positively towards country's climate change initiatives



Jobs generated have impacted approximately 20,000 citizens through PRESPL with / working for them and their livelihood prospects; through layers of involvement in Biomass Supply Chain



Boosted business of both machines production manufacturers and transport agencies where projects are running



Income of participating farmers has been enhanced by USD 1000 to 2500 per annum and many farmers have understood the benefits of not burning crop residues



Projected business propositions of more than 300 Crores for the next 5 years; subject to government policies and acceptance of the business propositions by industry and financiers



# KEY MANAGEMENT PERSONNEL

## Lieutenant Colonel Monish Ahuja (Retd)

Managing Director (MD)

✉ monishahuja@prespl.com

Lt Col Monish Ahuja (Retd.) is currently the Managing Director of Punjab Renewable Energy Systems Private Limited (PRESPL). He is an alumnus of the prestigious National Defence

Academy, Khadakwasla, Pune. Post Graduate (M. Tech) in Nuclear Technology from Bhabha Atomic Research Centre in 2006. Bachelor of Technology (B. Tech) in Mechanical Engineering from JNU in 2002, Bachelor of Science (B.Sc.) from JNU in 1994.

He is known in the Biomass fraternity as a dedicated and knowledgeable leader. He is bestowed with the "Biomass Energy Man of the Year Award", 2013 and has numerous other awards to his credit; the most recent being Mission Innovation National Champion 2019.

## Mr. Unnikrishnan Nair

Chief Financial Officer (CFO)

✉ unnikrishnannair@prespl.com

25+ years of experience in the field of finance, accounts and taxation for a various multinational companies, such as Oil & Gas, Pharmaceuticals, Chemical, Banking, Information Technology and Financial services. Currently, he is serving with Punjab Renewable Energy Systems Private Limited (PRESPL), as the Chief Finance Officer. Holds the Chartered Accountant Degree from Institute of Chartered Accountants of India, Certified Public Accountant (USA) and Certified Information Systems Audit Examination (USA).

## Ms. Disha Verma

Company Secretary (CS)

✉ disha@prespl.com

With over 6 years of work experience, Disha serves as the Company Secretary and handles all Legal and Compliance matters of Punjab Renewable Energy Systems Private Limited (PRESPL). A Member of Institute

of Company Secretaries of India and also holds a Bachelor of Legislative Law (LL.B) Degree from M.G.M Law College Navi Mumbai.

## Colonel Rohit Dev (Retd)

Chief Operating Officer (COO)

✉ rohitdev@prespl.com

A young dynamic leader who moved from the Armed Forces, after an illustrious career, in November 2018 and joined PRESPL as the COO in December 2018. In his military career of 24 years, he has been at the top of

his profession, held all prestigious appointments and had a detailed insight in the Operational Logistics and Supply Chain Management of a strategic field organisation in the Northern Command. Graduated from the National Defence Academy, also holds a M.Sc. in Operational Art and Strategic Thinking. He has done certification courses from IIM, Indore, NIFM, Faridabad, IIMC, New Delhi, the Art of Living, Bengaluru and NABET Accredited Internal Auditor Training Course on Environmental, Health and Safety Statutory Compliance, CIL.

He has been invited as a Speaker and been on Leadership Panel Discussion on topics related to Biomass Supply Chain Management and Bio-Energy Sector in India & in Global Summits. He is a prolific writer, an orator & an avid television personality in the Indian Media, as a Defence Analyst & Geo-Political Security Expert.

## Colonel Sumeet Malhan, SM (Retd)

Chief Technical Officer (CTO)

✉ sumeetmalhan@prespl.com

Col Sumeet joined PRESPL as Chief Technical Officer in Feb 2019. A veteran of the Kargil War and numerous Counter Insurgency Operations, he has immense expertise in Operations

& Project Management. Some of these operations/projects have been executed in the most difficult terrains in the world over a career spanning 24 years in the Army, Defence Research & Development Organisation and the RE sector.

An NDA Alumni & B.Tech from JNU, he has experience of managing high value Strategic Defence Projects while serving with the DRDO. He has certification in Defence & Strategic Studies, Senior Level Defence Management, Quality Management and Assurance and NABET Accredited Internal Auditor Training Course on Environmental, Health and Safety Statutory Compliance, CIL.

Awarded Sena Medal (Gallantry) by the President of India for exceptional courage in eliminating hardcore terrorists and also awarded Mention-in-Despatches, in addition to being awarded Wound Medal.

## Awards & RECOGNITION

**2013**

Energy and Environment Foundation  
7th REI 2013 Expo  
Renewable World 2013

**2014**

Udyog Ratan Award

**2015**

Best Paper Award  
IICA Innovations & IPR Award

**2016**

Renewable Energy India Awards 2016

**2017**

50 Most Impactful Green Leaders  
Power-Gen India & Central Asia

**2018**

IETE International Conference on Recent Trends in Sustainable Technologies  
Indian Federation of Green Energy  
Digital Transformation In Oil & Gas Industry

**2019**

Renewable Energy India Awards 2019  
Mission Energy Foundation  
SME Business Leaders of India Future 20/20 Conference  
Mission Innovation National Champion 2019  
The Prerana Energy Professionals

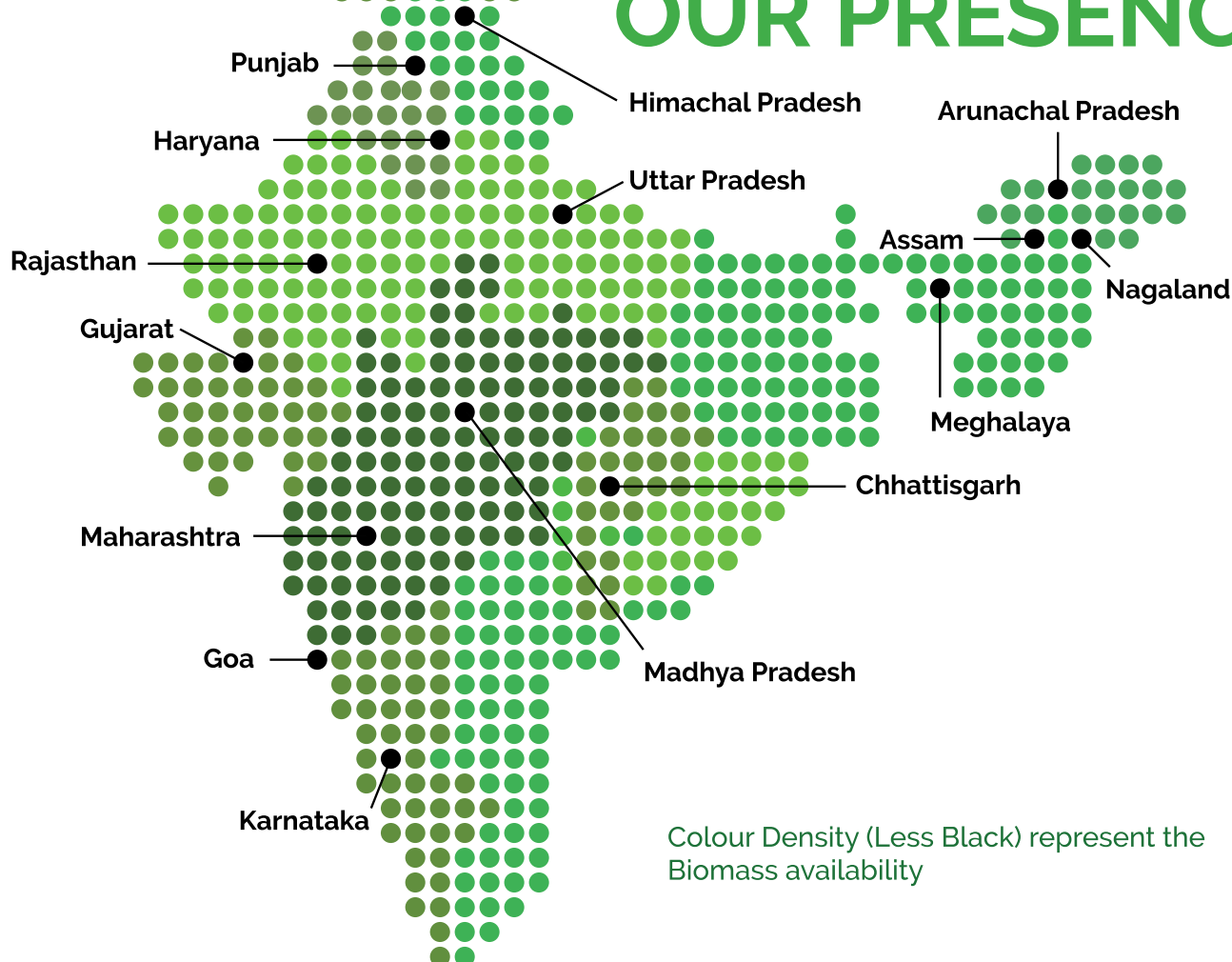




# PRESPL

Punjab Renewable Energy  
Systems Private Limited

## OUR PRESENCE



### Media Space



[www.prespl.com](http://www.prespl.com)



Prespl India



@PRESPLdesk



prespldesk



PRESPL India

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