





PUNJAB RENEWABLE ENERGY SYSTEMS

February 28, 2022



- Company Overview
- Support from NEEV Fund

PRESPL NEEV FUND

- Biomass sector in India
- Market Opportunity
- PRESPL's Growth plan



• India's Largest Biomass SCM Company.

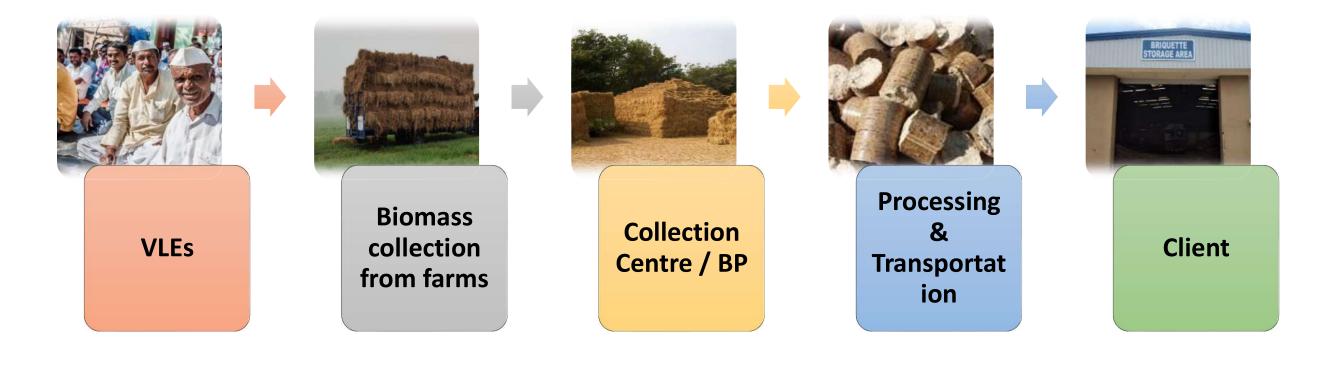
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- Unique Rural Entrepreneurship Model.
- Vertically Integrated Operations.
- Aligned to growth in next Gen Fuels.
- Sustainability and Social impact.











Business Verticals





Other target segments – Steel, Rubber, Textile, OMCs, IPPs, Municipal Corporations, Restaurants.



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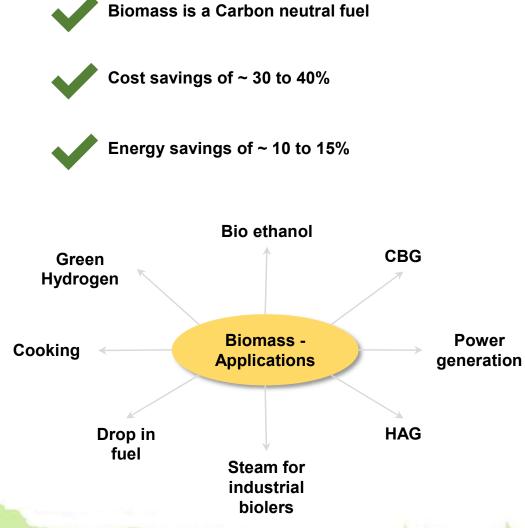
- Job creation
- Skills development
- Additional source of revenue
- Environmental benefits
- Awareness program for villagers
- Financial inclusion

Support from NEEV Fund

- Catalytic role in getting new investors (Shell and Mitsui) on board
- NEEV's role in Mitsui investment
 - Guiding PRESPL in having Strategic investors to help business growth
 - Active engagement in the identification and shortlisting of Mitsui
 - Taking lead in proposing and convincing existing investors for the bring Mitsui on board
- Active engagement by NEEV Team in business strategy both in existing lines of business and in evaluating new opportunities
- NEEV Fund supported PRESPL during covid by extending financial support

Biomass Comparatives

Biomass – A cleaner fuel alternative



Biomass briquettes are cost efficient fuels

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	Diesel Oil	Furnace Oil	Natural Gas (PNG)	Electricity	Wood Pellets	Coal	Biomass	
							Briquette	Loose
Heat Value Units (kcal/kg)	10200	9600	8500	860	4100	6000	3700	3400
Unit Price of Fuel (INR)	95	33	62	8.7	10	10	6.50	4.00
Equivalent quantity of Loose Biomass for Same Heat Value (kg)	3.00	2.82	2.50	0.25	1.21	1.76	1.09	1.00
Equivalent Price of Loose Biomass for Same Heat Value (INR)	12.00	11.29	10.00	1.01	4.82	7.06	4.35	4.00
Net Saving Using Loose Biomass in lieu of Fuel	83.00	21.71	52.00	7.69	5.18	2.94	2.15	0.00
The Savings Energy Rate (Loose Biomass compared to other fuel)	87%	66%	84%	88%	52%	29%	33%	0%
Specific CO ₂ emission kg(of CO ₂) / kg (of Fuel)	3.15	3.11	2.75	NA	1.83	2.38	0	0
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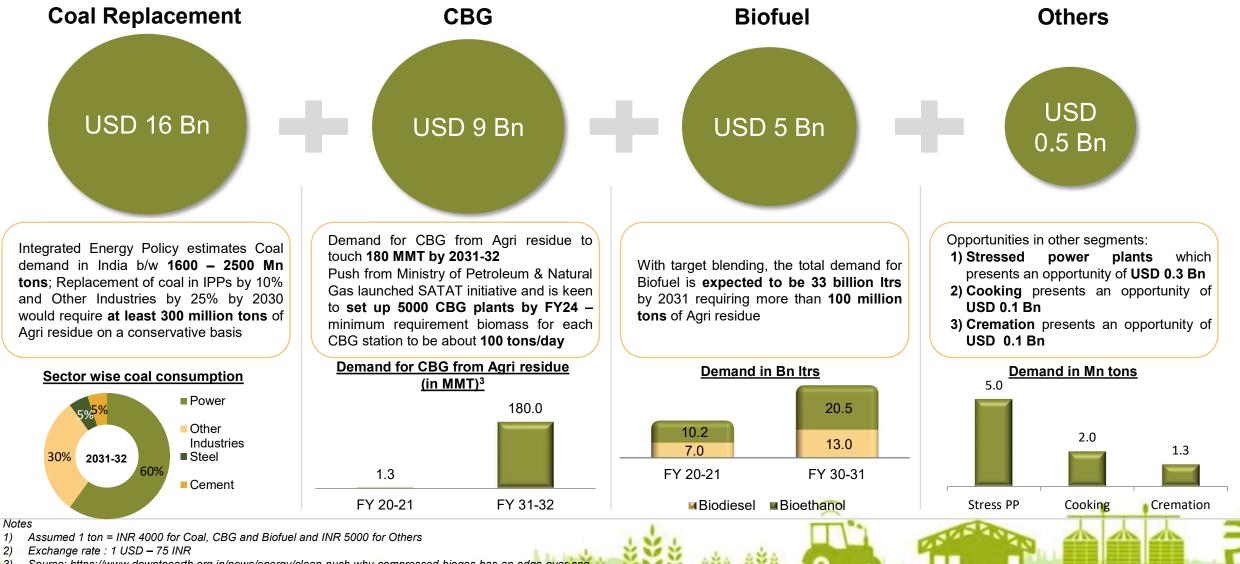
Environmental Context

- Among the top 50 most polluted cities in the world (PM 2.5) 36 are in India.
- India's GHG emissions is about 3.4 Bn MT and is expected to rise to 7 Bn MT by 2030.
- As part of Paris Climate Agreement India has India has committed to produce 40% of its installed electricity capacity from non-fossil fuel sources by 2030.
- India has an estimated agri-residue surplus of 1,547 MMT in the year 2020-21
- To promoter use of biomass as a clean fuel, Govt. has taken several initiatives like
 - Replacing 10% of coal in thermal power plants with biomass pellets
 - Targeting 20% blending in Bio-ethanol and 5% blending of Biodiesel by 2030
 - Using Agri residue for various types of Energy generation in the form of Steam, Biogas, CBG, Heat and Cooling.
 - Set target to be carbon neutral by 2070

The Challenges of Biomass Aggregation

- Farmers have equipment for cultivation and harvesting but not for collecting biomass.
- Biomass is available for 1-2 times a year depending upon crop pattern and thus has to be stored for ensuring continuous supply.
- Biomass is voluminous and requires significant space to store. Each acre can store about 3-5 MT of biomass. Also storing requires significant working capital.
- Biomass is a very localized commodity; in comparison to other fuels, it becomes uneconomical when transported over 50-70kms and thus needs to find end use nearby.
- Formal capital from banking channel for setting up biomass supply chain and storing it is not available today.





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3) Source: https://www.downtoearth.org.in/news/energy/clean-push-why-compressed-biogas-has-an-edge-over-cng

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Thank You

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