

**Mamleshwar
Clean Fuel
Pvt Ltd**



**Briquettes & Pellets
to Industrial Fuel**

Crop Waste



Harvested
Paddy Field



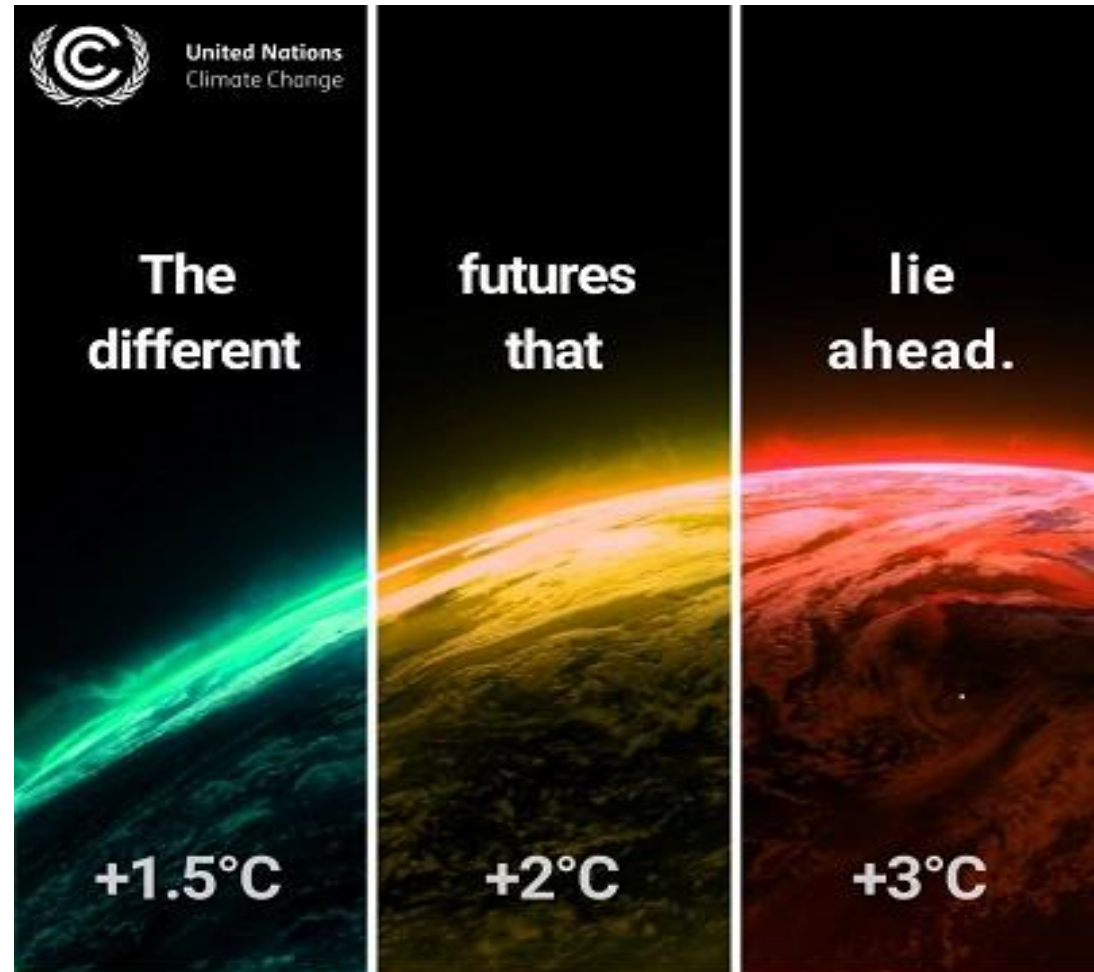
Crop Waste Burning



Delhi NCR During Winter



Global Burning



Procurement of Waste at our Plant



Crop Waste to Industrial Fuel



Raw Material



Vibrating Machine



Dryer



Finished Product



Biomass Briquette Machine

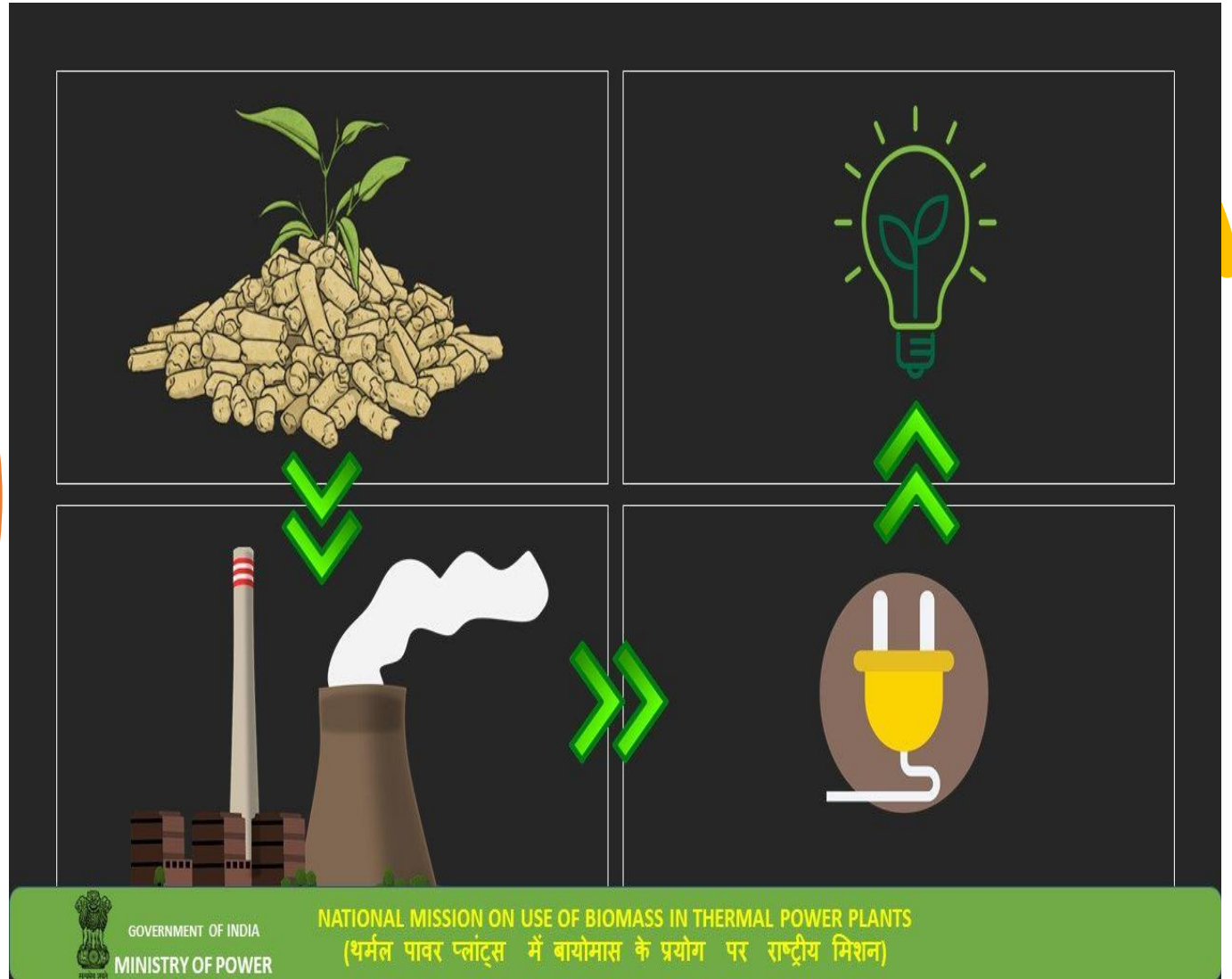
MANUFACTURING
PROCESS

Briquettes & Pellets



Factors	 Briquettes	 Coal	 Furnace Oil/LDO	 CNG/PNG
Calorific Value	3700 (\pm 200)	4500 (\pm 200)	10,050 (\pm 300)	8000 - 10,500
Ash Contents	10% (\pm 3)	30% (\pm 10)	Negligible	NIL
Pollution/Poisonous effluent emission	Lower SO _x & NO _x	Higher SO _x & NO _x	High SO _x	Methane, CO Emission
Moisture	10% (\pm 3%)	30% (\pm 10%)	0.02%	NIL
Cost Rs.	8/Kg	11/Kg	42/Lt.	66/Lt.
Cost Rs./KCAL	2.16	2.44	4.18	7.14
Boiler efficiency	Periodical Cleaning Required	Periodical Cleaning Required	Maintenance due to formation of Acid	Low Maintenance
Remarks	Eco Friendly Fuel, Agro Residual Value Addition	Fossil Fuel & Hazardous Emission	Fossil Fuel & Import Dependency	Country Imports 42% Gas

Demands -
NTPC
State GenCos
Pvt Power Plants



Estimated Demand

ALL INDIA MAPPING	
Total Crop Area (Million Hectare)	206.09
Total Crop Production (MMTPA)	774.38
Total Biomass Generation (MMTPA)	754.44
Surplus Biomass generation (MMTPA)	228.49
Total Installed Capacity Coal Based TPP (GW)	209.7
Pellet Required @5% co-firing (MMTPA)	38.55
Biomass Required (TPD) @5% of Co-firing	1,05,610

Social & Environmental Impacts

- **An additional 5000 per acre income for farmers**
- **Employment Generation in village**
- **Save Soils Fertility**
- **Reduce Air Pollution**



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Mamleshwar Agro Fuel Pvt. Ltd. - INDORE (M.P.)

Mamleshwar Bio Fuel Pvt. Ltd. - INDORE (M.P.)

Mamleshwar Green Fuel Pvt. Ltd. - DHAR (M.P.)

Mamleshwar Clean Fuel Pvt. Ltd. - SIRSA (HR)

Pinaki Eco Fuel - SEHORE (M.P.)

