



Years of Leadership



HI TECH AGRO ENERGY PVT. LTD.

Biomass Energy Solutions

ABOUT US

We are a leading **biomass engineering company** specializing in **biomass energy, renewable energy systems, and waste-to-energy solutions**.

From standalone machinery to complete turnkey plants, we design, manufacture, and implement solutions that are built for performance, durability, and long-term efficiency at an inexpensive cost.

With over four decades of experience, we help industries convert **agricultural biomass waste** into valuable fuel such as **biomass pellets, briquettes, and bio-coal**, enabling cleaner and more efficient energy use.

- **40+ Years** in the biomass and renewable energy industry.
- **1000+** Biomass Plant Installations.
- Market Leadership in **100% Paddy Straw Plants in Punjab**.
- **Large-Scale Multi-Feedstock Projects in Maharashtra**.
- Manufactured **Industry's First High-Capacity 8 TPH Hammer Mill**.
- **Strong Expansion in Rice Husk Plants in Madhya Pradesh**.
- Designed in alignment with **MNRE & CPCB Norms**.
- **Pan-India Project Deliveries Beyond Core States**.

We provide complete support across the Project Life cycle, which includes-

- Consultation & Project Planning
- Installation & Commissioning
- Training & Technical Support

OUR MISSION & VISION

We are committed to helping people use all types of **Biomass Resources, Agricultural and Industrial residue** to produce **Clean, Affordable, and Renewable Energy**. We aim to lead the transition towards clean, renewable energy by enabling industries to adopt efficient biomass solutions. Guided by **integrity, innovation, and reliability**, we deliver scalable systems that **reduce fuel dependency, optimize operations, and promote sustainable, responsible industrial growth**.

RAW MATERIALS PROCESSED



- Saw dust, sander dust, wood chips and shavings, tree bark and twigs, pine needles, lantana camera, juliflora, wild grasses and shrubs, bamboo chips and dust, bagasse, sugar cane leaves, coir dust, etc.
- Husks (rice, coffee, mustard, sunflower, etc.)
- Shells (groundnut, almond, castor, etc.)
- Cobs (maize, bajra, etc.)
- Municipal & industrial waste



END USE OF DENSIFIED FUEL

Pellets and Briquettes are used in industrial, commercial, and residential segments:

- Requirement of fuel pellets has seen a tremendous increase in the last few years as these can be easily used in **Travelling Grate, Fluidized Bed Combustion, & other large capacity Industrial Boilers** where faster combustion of fuel is required.
- **Pellet-Fired Heating Systems** for residential and commercial areas have become common nowadays.
- Pellets are also used in **large capacity state of the art gasifiers**.
- Briquettes are ideally suited for and used in **Fixed Grate Industrial Boilers (normally up to 5 TPH capacity), Foundries, Brick Kilns, Ceramic Units, and Residential Heating and Gasification (For Thermal and Electrical needs)**

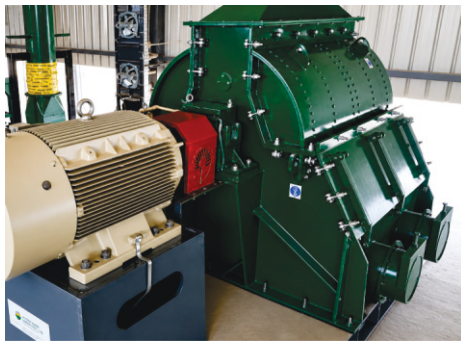
BIOMASS BRIQUETTE MACHINE



Converts agricultural waste into high-density solid fuel for efficient and sustainable energy use.

- Processes a wide range of biomass like rice husk, sawdust, and agro waste into briquettes.
- Produces uniform, high-calorific fuel suitable for industrial heating.
- Designed for continuous operation with low maintenance and energy consumption.

HAMMER MILL



Efficient size reduction solution designed to process biomass into uniform particles for optimal densification.

- Made of Robust Steel Construction and reinforced at critical areas (Load bearing pedestal) by welding stiffeners.
- Ensures consistent particle size for improved pellet and briquette quality.
- Handles a wide range of raw materials including agro waste and wood residues.
- Separates stones, sand and other heavy impurities to ensure continuous operation.
- Capacities available from 100 to 15,000 kg/hour.

AIR POLLUTION CONTROL

Advanced systems designed to control emissions and maintain environmental compliance.

- Captures dust and particulate matter from industrial processes.
- Improves air quality and ensures regulatory compliance.
- Integrates seamlessly with biomass and processing plants.



BIOMASS PELLET MACHINE



Advanced systems for producing uniform biomass pellets used in clean energy and power generation.

- Converts biomass into compact, high-energy pellets for consistent combustion.
- Supports multiple raw materials, including low density straws, wood and other biomass.
- High-efficiency, automated operation for large-scale pellet production.

DRYER



Optimized drying systems to achieve ideal moisture levels for efficient biomass processing.

- Reduces moisture content to improve fuel quality and combustion efficiency of bagasse, saw dust, coir pith, coir fibre and other fibrous, powdery and granular materials normally having moisture of up to 50%.
- Supports continuous drying for high-capacity biomass operations.
- Enhances the productivity of pellet and briquette plants.

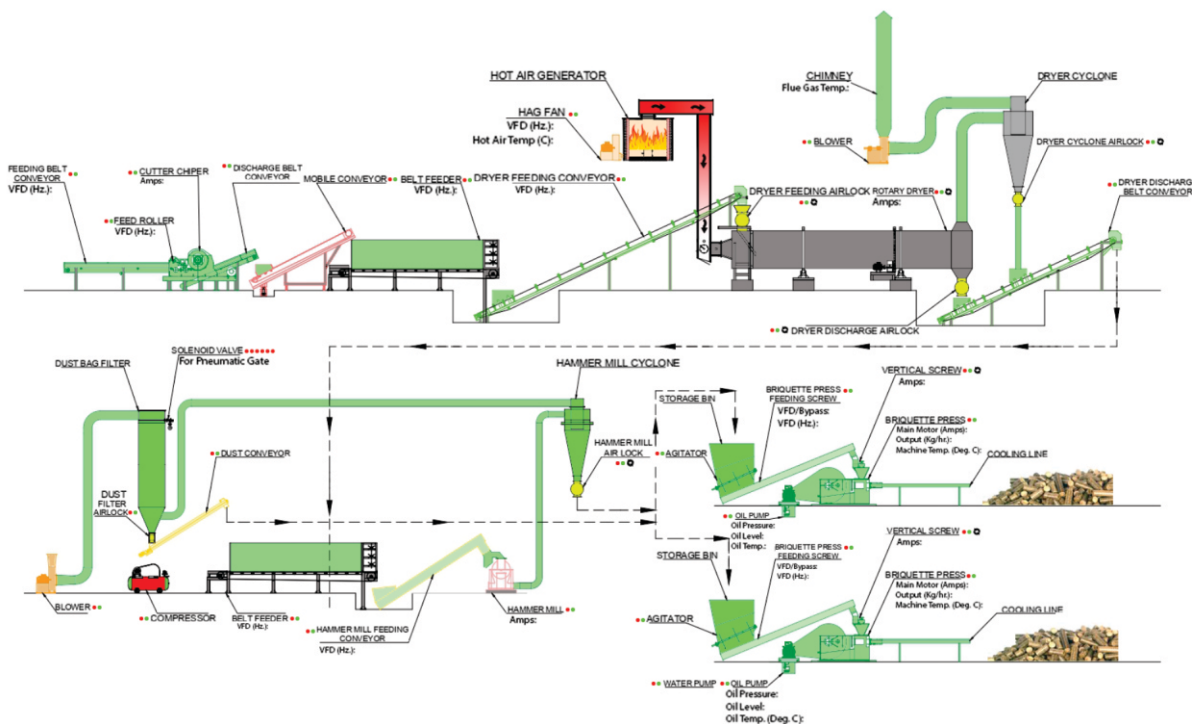
MSW TO RDF PLANT



End-to-end solutions for converting Municipal Solid Waste (MSW) into Refuse Derived Fuel (RDF).

- Segregates, processes, and converts waste into high-energy RDF.
- Reduces environmental impact through effective waste management and reduces landfill dependency.
- Suitable for large-scale industrial and municipal applications.

Turnkey Projects | Briquette Machine | Pellet Machine Size Reduction | Municipal Waste to Fuel (MSW to RDF) Paddy Straw Pellet Plants | Feedstock Pro-processing for CBG Plants



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