

Biomass

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Costs half!


Infinite Energy Pvt. Ltd.

An ISO 9001:2008 Company

Infinite Energy Pvt. Ltd. is an ISO-9001 certified company which is widely recognized as the leader in biomass conversion & processing technology in India and abroad. For more than two decades the company has been successfully providing *end-to-end Biomass to Energy solutions* around the world. With such a long span of experience the company's products have benefitted from countless small and large innovations and ideas.

Operating from its headquarters in New Delhi, IEPL has built an international sales network spread over South East Asia, Middle East, Africa, Europe, Latin America,

Israel, Pakistan, Philippines, Turkey, Australia, Russia and the US. It has a full fledged ISO 9001:2008 manufacturing setup within the NCR region in Faridabad, Haryana.

The company is an approved supplier of Biomass Gasifiers by the Government of India's Ministry of New and Renewable Energy.

The company, being promoted by a passionate team of technocrats, benefits from a unique customer oriented style of functioning. It strives to come up with a technically sound customised product for each of its customers.

Firsts to our name

With a long history spanning two decades, **Infinite Energy Pvt. Ltd.** is known for a number of innovations in the field. The company was the first in the field to develop following technologies :

- Entrained gasifier technology with heat recovery.
- Stratified gasifier for loose biomass viz. husks, shells, stalks and chips.
- Updraft gasifier with jet pump evacuator.
- Fully automatic producer gas burners.
- Scrubberless gas cooling systems, microprocessor based gasifier controls.
- Energy efficient Briquetting machines.
- Continuous Moving Bed Wood Chip Dryers.
- Briquetted difficult biomass like wax impregnated wood dust, paddy straw, coir pith.

The complete range of Infinite Products includes :

Biomass Dryers

- Flash Dryers
(500 kg/h - 5000kg/h)
- Rotary Dryers
(500 kg/h - 3000kg/h)
- Moving Bed Dryers
- Continuous Wood Chip Dryers
(Upto 100 kg/h)
- Batch Type Wood Block Dryers
(100 - 1000 kg/h)

Biomass Grinders

(200kg/h - 3000kg/h)

Wood Chippers

(200 kg/h - 2000 kg/h)

Biomass Briquetting Systems

- Impact Type Press
(100 - 1200 kg/h)
- Screw Extruder Press
(100 kg/h)

Biomass Gasifiers

- Updraft Gasifier
(100 kW_{th} - 3000 kW_{th})
- Downdraft Gasifier
(closed top)
(30 kW_{th} - 2000 kW_{th})
- Stratified Downdraft Gasifier
(open top)
(30 kW_{th} - 300 kW_{th})
- Entrained Gasifier
(0.5 MW_{th} - 5 MW_{th})

Fully Automatic Producer gas burners

(30 kW_{th} - 2000 kW_{th})

Biomass Holding Bins (Live Bottom)

Biomass conveying systems

Rotary screens for fines separation

■ Output Capacity


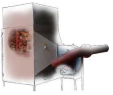

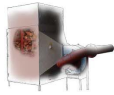





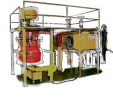







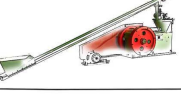









Infinite SOLUTIONS FOR EVERY BIOMASS

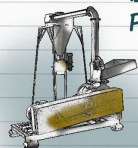
With an experience spanning over two decades, **Infinite Energy Pvt. Ltd.** are uniquely positioned to provide solutions for almost all kinds of Biomass. We are one of the rare companies in the world providing a complete range of products for harnessing Biomass Energy.

TYPES OF BIOMASS

BIOMASS CAPACITY

	100 kg/hr	100-350 kg/hr	Above 350 kg/hr
Wood Blocks/ Briquettes 	 + 	OR  + 	
Wood Chips/ Pellets 	 + 	 + 	
Agro Waste  	 + 	 + 	
		 +  + 	
Granular Biomass  	NA	 +  + 	

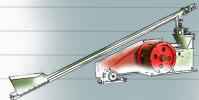
BIOMASS PROCESSORS



Infinite Grinder



Infinite Chipper



Infinite Briquetter



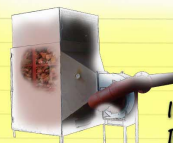
Infinite Rotary Dryer



Infinite Flash Drier



Infinite Moving Bed Dryer

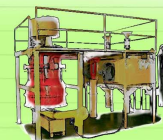


Infinite Batch Drier

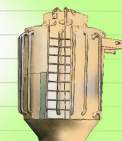
GASIFIERS



Infinite Updraft Gasifier

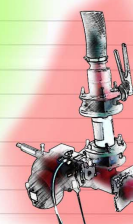


Infinite Stratified Gasifier



Infinite Entrained Gasifier

PRODUCER GAS BURNERS



Infinite Fully Automatic Burner



Infinite Energy Pvt. Ltd.

Infinite

Biomass Energy Applications

HEATING APPLICATIONS

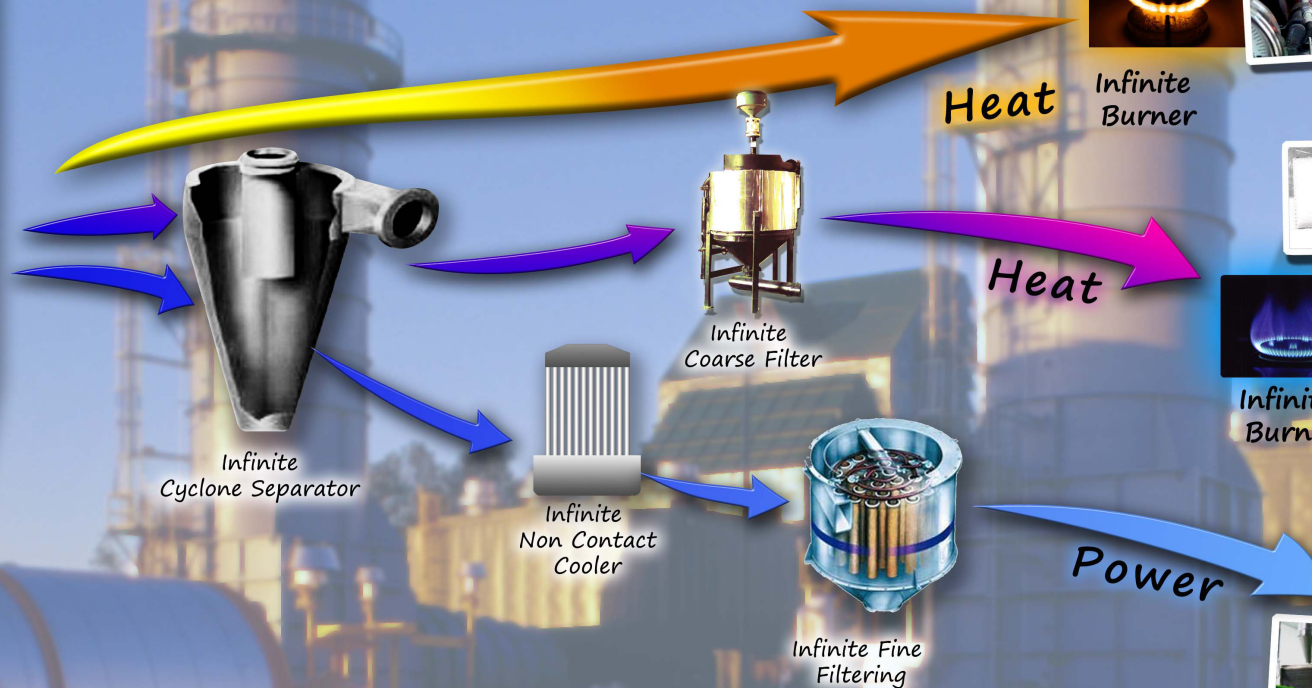
Infinite Gasifiers is a simple and reliable solution for bringing down the fuel cost by over 50%.

Our gasification technology is capable of converting almost any type of biomass to good quality producer gas. The producer gas can be piped from the gasifier (which may be located outside the plant building) to the ovens / furnaces etc. located in the plant building and burnt in specially designed burners, in place of fossil fuels like F.O / L.D.O / Diesel / LPG / CNG.

Thus expensive liqued / gas fuels can be effectively replaced by low cost wood without any changes in operations, temperature profile, temperature control and cleanliness in the plant area.



Infinite Gasifier



POWER GENERATION

Producer gas may be used to power gas engines and diesel engines (in dual fuel mode).



Infinite Energy Pvt. Ltd.

At **Infinite Energy** we choose to be governed by the following Green Guidelines and Design Criteria for all our systems.

Design Criteria



*Less
Parasitic Load*



*Maximum System
Efficiency*



*Maximum Carbon
Conversion*



*Minimal Water
Usage*



*Nearly Zero
Affluents*

Green Guidelines



*Ease of
Maintenance*



*Minimum
Maintenance Time*



*Minimal
Reliance on Operators*



*Maximum
System Reliability*



*Maximum
System Availability*



Infinite Energy Pvt. Ltd.

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