



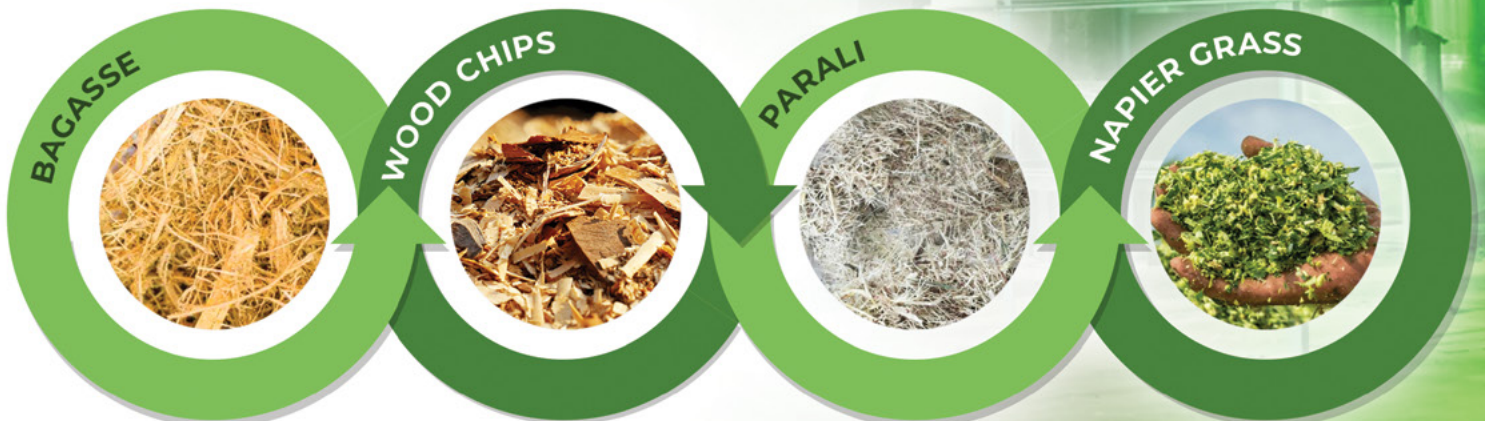
INFINITE
ENERGY PVT LTD

INDIA'S BENCHMARK IN BIOMASS DRYING

One stop solution for
your drying requirements

Infinite Energy's Legacy of Biomass Processing

Infinite's long list of satisfied customers are testimonial to its more than three decades of experience in Biomass Processing, allowing it to offer an unmatched service in the field.



UNMATCHED DRYING | NO COMPROMISE | NO RISK

INFINITE ENERGY'S DESIGN PHILOSOPHY



Maximum System
Efficiency



Maximum System
Availability



Minimal Reliance
on Operators



Less Parasitic
Load



Ease of
Maintenance

INFINITE DRYER

THE RIGHT SOLUTION FOR
EVERY DRYING CHALLENGE

Available in 3 Series with Different
Models Suiting all Possible
Requirements



IFD SERIES

Timetested Pneumatic Flash Dryer Technology Re-modelled by IEPL

The hot gas carries the material pneumatically and drying is achieved through intimate mixing off hot gas with the wet material as they travel together in the drier columns.

IFD series dryer can be used for quickly drying of any biomass having **initial moisture content <50% & particle size < 8 mm**

Ideal for

Sawdust, Rice Husk, Press Mud, Herbs Spent Extract, Fly Ash or any other Powdery Biomass.



50% to 12% Moisture
in just a few seconds!

IFD SERIES

DRYER MODELS	IFD 750	IFD 1500	IFD 3000	IFD 5000	IFD 7500	IFD 10000
Water Evaporation (Kg/h)	450	900	1800	3000	4500	6000
Dry Product o/p (Kg/h) @i/p Moisture < 30 %	1100	2200	4400	7000	10000	14000
Dry Product o/p (Kg/h) @i/p Moisture < 45 %	750	1500	3000	5000	7500	10000
Dry Product o/p (Kg/h) @i/p Moisture < 50 %	600	1200	2400	4000	6000	8000
#Fuel Consumption (Kg/h)	<115	<220	<400	<700	<950	<1250
Connected Load (hp)	19.5	31	72	136	174	225

Fuel: Briquettes or Dry wood blocks of moisture <20% & C.V.> 3,800 Kcal/kg

RFD SERIES

Large drying strength in short drying time with low energy consumption

RFD Series is a combination of rotary dryer and standard IFD Series dryer. The rotary dryer brings internal moisture of material on surface and then minimises it by bringing it into direct contact with a heated gas in a tube by rotating/lifted up by a series of internal paddle mounted on shaft of the dryer.

The removal of the remaining moisture is completed in the dryer columns by direct heat transfer between the material and the hot gas which carries it.

RFD Series Dryer can be used for quickly drying of any biomass having **initial moisture content < 60% & particle size <12 mm.**

Ideal for

Sugarcane Bagasse, Coir Pith, Wood Chips, Wood Barks, Shavings & Branches, Veneer Ply Waste, Mushroom Substrate, Ayurvedic Herbs Spent Extract, Cashew Husk, DDGS, DWGS etc.



60% to 12% Moisture
in just a few seconds!

RFD SERIES

DRYER MODELS	RFD 750	RFD 1500	RFD 3000	RFD 5000	RFD 7500	RFD 10000
Water Evaporation (Kg/h)	500	1000	2000	3200	4700	6500
Dry Product o/p (Kg/h) @i/p Moisture < 50 %	750	1500	3000	5000	7500	10000
Dry Product o/p (Kg/h) @i/p Moisture < 60%	450	900	1800	3000	4000	6000
#Fuel Consumption (Kg/h)	<135	<260	<450	<750	<1150	<1400
Connected Load (hp)	24	34	90	173	235	325

#Fuel: Briquettes or wood blocks of moisture <20% & C.V. > 3,800 Kcal/kg

ISD SERIES

Ideal for any biomass (size < 5mm) and input moisture < 80%

Ideal for

Chicken/Poultry Litter, DDGS, Pig/Horse Dung, Agro Waste/ETP Sludge, Municipal Waste/Sludge (Biodegradable), Coir Pith, Cashew Husk, Napier Grass. Press Mud.



COIR PITH



POULTRY LITTER



INDUSTRIAL SLUDGE



ETP SLUDGE



ETP SLUDGE

85% to 12%

Moisture
in just a few seconds!

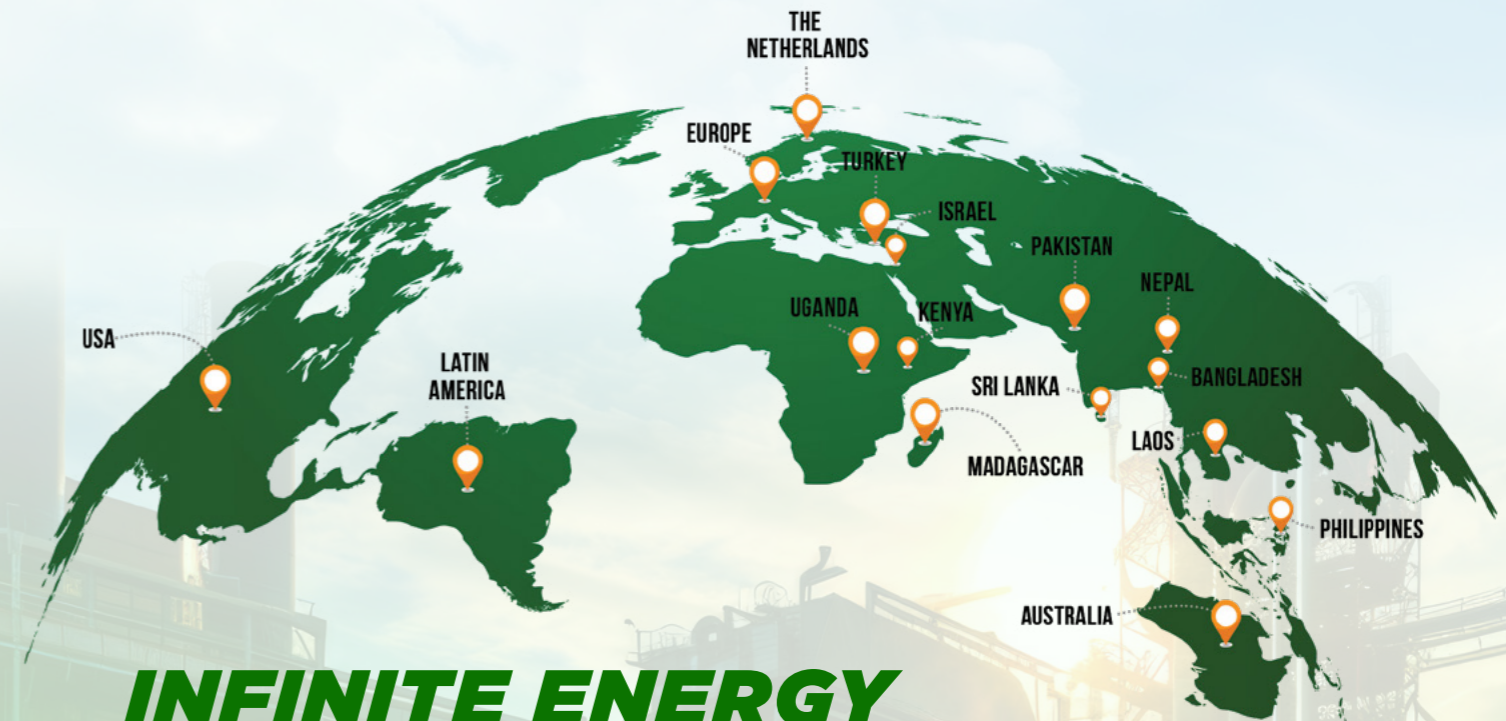
ISD SERIES

DRYER MODELS	ISD 750	ISD 1500	ISD 3000	ISD 6000
Input material feed rate (kg/h) @Moisture < 80%	< 850	< 1700	< 3500	< 7000
Water Evaporation (kg/h)	750	1500	3000	6000
Dry Product o/p (kg/h) Moisture <15%	100 - 150	250 - 300	500 - 600	1000 - 1200
Fuel Consumption (kg/h) Dry wood/Briquettes	< 150	< 300	< 600	< 1200
Connected Load (hp)	47	87	186	298
Area required (lxbxh) mtr	9 x 9 x 9	12 x 12 x10	20 x 20 x 12	25 x 25 x 15

Fuel*: Briquettes or wood blocks of moisture <20% & C.V.> 3,800 Kcal/kg

INFINITE WORLD

IEPL's products are being used in more than 16 countries across the globe.



INFINITE ENERGY

THE MOST RELIABLE PARTNER IN BIOMASS CONVERSION

Infinite Energy Pvt. Ltd. (IEPL) is a recognised engineering firm specialising in the field of biomass conversion and processing technology in India.

Being the brainchild of an IITian, the primary focus of the company lies in designing, developing and manufacturing a diverse array of renewable energy products.

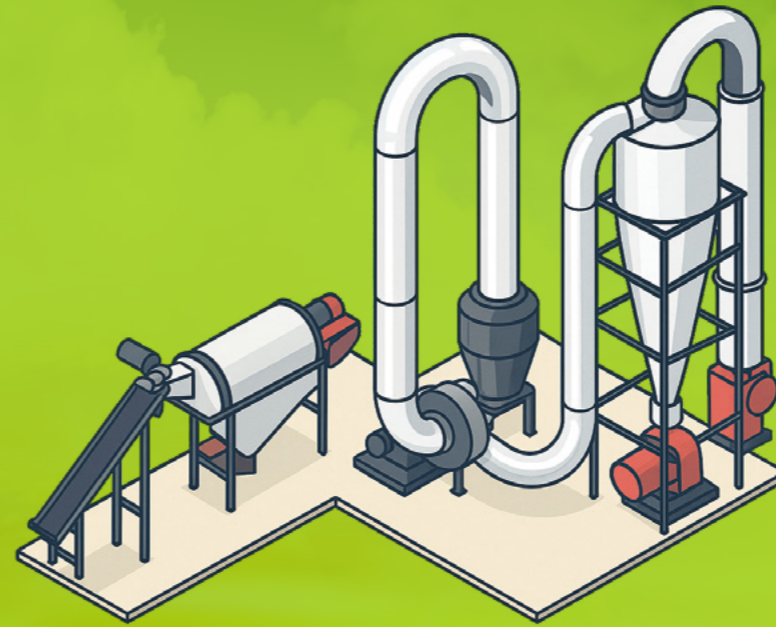
IEPL has extensive experience and knowledge developed over the last two decades in the field of biomass-to-energy technologies for providing end-to-end solutions.

Infinite Energy has a reliable international sales network spread over United States of America, Europe, Israel, Latin America, Philippines, Turkey, Australia, The Netherlands, Sri Lanka, Pakistan, and Bangladesh.



Infinite

The Dryers with Unmatched Advantages!



1

Research Based Design Approach

Infinite Energy is founded and run by IITians. It takes pride in its original research based solutions. *Most competitors lack this scientific rigour.*

5 Custom-made Flexible Solutions

Infinite Dryers are designed as per the exact space availability. This ensures that all the components of the dryers fit in the available space.

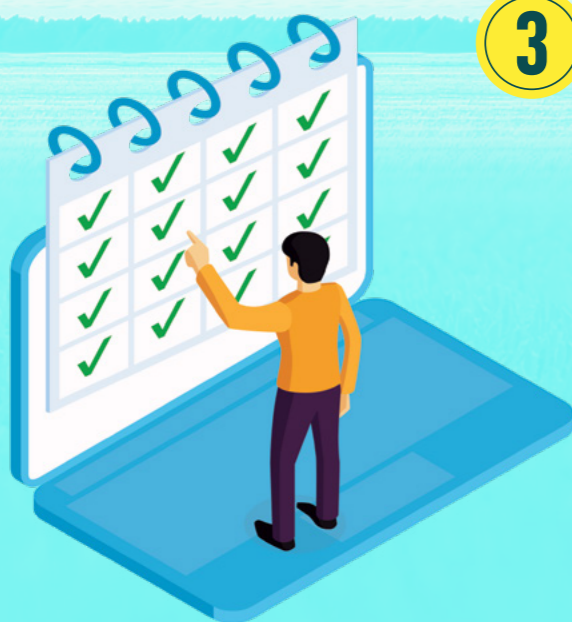


4 Minimum reliance on operators

Infinite Dryers are designed to be self-sufficient, while most models need just one operator, some require two. *Most competitor dryers require upto 5 operators.*

3 Maximum System Availability

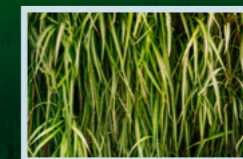
Infinite dryers require minimal downtime, ensuring that the dryer is available for use 365 days an year—year after year! *Most competitor dryers need repairing every fortnight!*



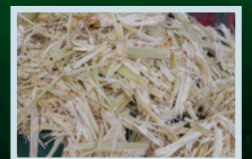
2 Effective on a wide range of biomasses

Infinite dryers work splendidly on any biomass. *In fact they are the only dryers to be effective on biomasses with having 55-80% moisture!*

Effective even on the 'difficult biomasses' like:



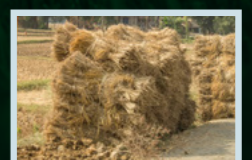
Napier Grass



Bagasse



DWGS



Paddy Straw (Parali)

INFINITE DRYERS: Successfully deployed across the world!

ACTUAL SITE PHOTOGRAPHS





UNMATCHED DRYING. NO COMPROMISE. NO RISK.

Most biomass dryers fail if the moisture content crosses 40%.
Infinite Energy's Dryer's work well even with moisture content of 70%

Most dryers can't dry biomasses like bagasse and napier grass! infinite Dryer's are globally reputed to work superbly on these!

Most biomass dryers catch fires! and put everyone around at risk apart from causing repeated financial losses. **Infinite Energy's Dryer's are 100% safe with zero accidents reported due to design failures.**

**WE DRY
HARDER**



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