



A STEP TOWARDS GREEN ENERGY

ENERSOL BIOPOWER PVT. LTD.

Energol Biopower Pvt. Ltd., a company established in 2013, has attained an enviable reputation in the market for manufacturing, supplying, and distributing a range of biomass-to-energy products.

We are pioneers in the field of small-size compact biomass gasifiers for power generation and smokeless biomass stoves.

Founded by Mr. Rai Singh Dahiya, a Grassroots Innovator, the company has an enviable record of development in biomass gasifiers, especially in the area of dry filtration and its portability feature.

ESB-R BIO-MINI



SMOKELESS DOMESTIC BIOMASS STOVE

ESB-R Bio-Mini is a smokeless domestic biomass stove specially designed to replace traditional biomass stoves.

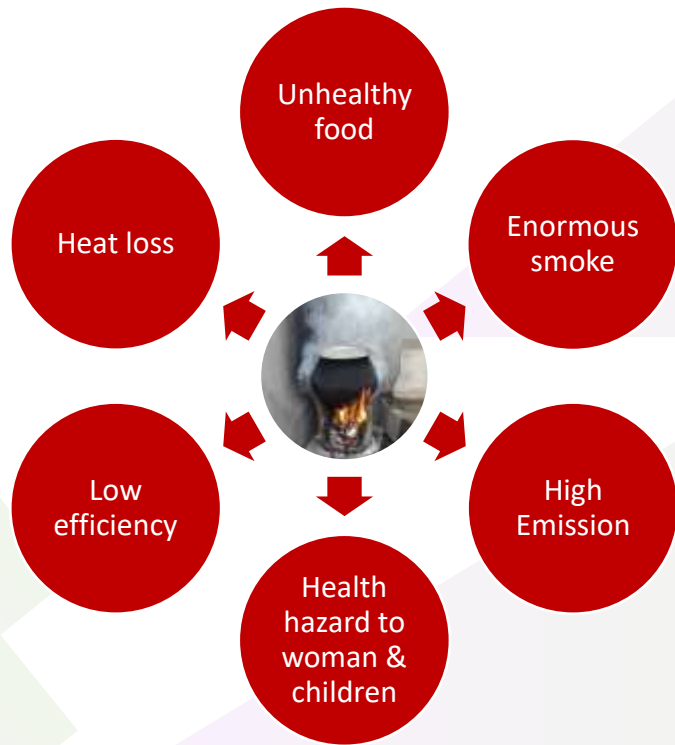
SAY **NO** TO TRADITIONAL BIOMASS STOVE



SAY **YES** TO ESB-R BIO-MINI

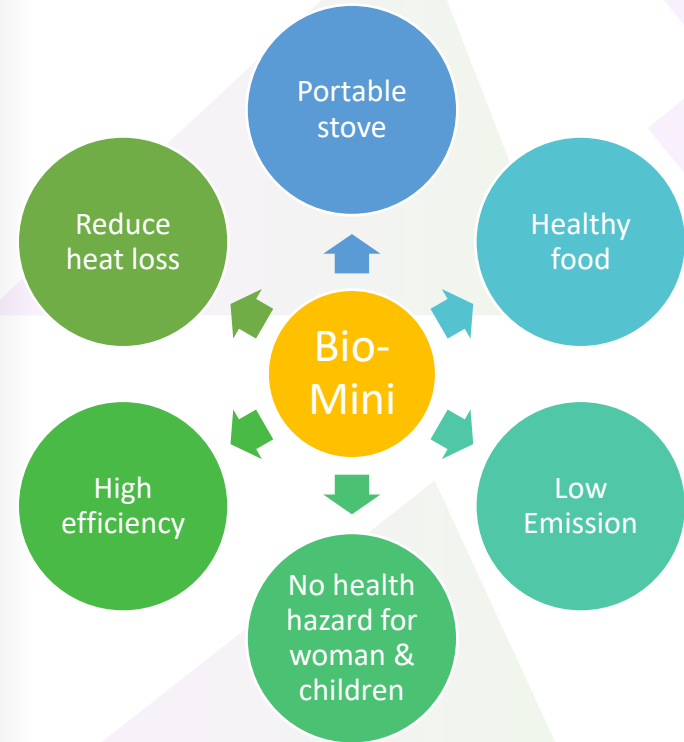


TRADITIONAL BIOMASS STOVE



Vs.

ESB-R BIO-MINI SMOKELESS BIOMASS STOVE



KEY FEATURES OF ESB-R BIO-MINI

ESB-R Bio-Mini biomass stove has some unique features that make it more advantageous than other available biomass stoves in the market. They are as follows:

- ✓ The ESB-R Bio-mini stove doesn't release smoke, which helps women to live in a less polluted and healthier kitchen environment. This reduces the risk of health issues in women and children, ultimately enabling them to adopt a healthy lifestyle.
- ✓ It is more efficient than traditional chulha.
- ✓ It is a reliable, rugged, and compact system.
- ✓ It has low maintenance requirements and is easy to operate.
- ✓ Accessible to both urban and rural populations.
- ✓ It reduces the use of fossil fuels.

- ✓ It promotes sustainable fuel usage by efficiently utilizing biomass materials such as agricultural residues, wood pellets, or crop wastes, thereby reducing the demand for traditional fuel sources and mitigating deforestation pressures.
- ✓ As it comes with enclosed combustion chambers or temperature control mechanisms, it reduces the risk of accidental fires or burns.
- ✓ An eco-friendly product with low emission & no soot.



TECHNICAL SPECIFICATIONS

Sr. No.	Particulars	Details
1.	Brand	Energol Biopower®
2.	Fuel Mode	100% Biomass
3.	Feeding Mode	Manual
4.	Feeding System	Top Feeding
5.	Made of	Mild Steel & Cast-iron
6.	Biomass Consumption	1.5-2kg/hr.
7.	Accepted Moisture in Fuel	Less than 20%
8.	Ash Removal Mode	Manual
9.	Flame Regulator	Provided to adjust the flame
10.	Thermal Efficiency	35.5%



Model Name
Bio-Mini

Stove Type
Forced-draft

Model No.
ESB-R/BM01

Stove
Weight
14kg Approx.

Power
Required
12V DC Fan

Stove Dimension
**H12 Inch
W12 Inch
L18 Inch**

ESB-R BIO-MINI PICTURES



APPLICATIONS



Replaces traditional
wood stoves



To prepare poha for
5-25 people



To prepare pakora for
5-25 people



To boil water &
milk



To prepare Samosa &
kachori for 5-25 people



To prepare food for
5-25 people



At tea & coffee stall



At small hotel,
restaurant & dhaba

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- ✓ <https://www.youtube.com/watch?v=gT4slGGJefl>
- ✓ <https://www.youtube.com/shorts/JL5d8YCauc>
- ✓ https://www.youtube.com/watch?v=-dsKwNdd_IY

OUR PRESTIGIOUS PARTNERS

- ❑ Celebration Enterprise, Bankura, West Bengal
- ❑ Tarun Enterprise, Medinipur- West Bengal
- ❑ Shree Varindavan Thali Restaurant, Korba, Chhatisgarh
- ❑ Ratan Misthan Bhandar, Siwana, Barmer
- ❑ Sharma Misthan Bhandar, Beawar, Rajasthan
- ❑ Vellore Institute of Technology (VIT), Vellore, Tamil Nadu
- ❑ Asian Techno Engineers, Nellore, Andhra Pradesh
- ❑ Roshan Hotel, Kurnool, Andhra Pradesh
- ❑ Sanjay Sawant, Karnal
- ❑ Mr. Vijay Shivaji Lambe, Ahemdagar, Maharashtra
- ❑ Amit Kumar Jhariya, Jabalpur, MP
- ❑ Mr. Seenappa M, Bangalore, KA
- ❑ Mr. Mashood, Pallakade, Kerala
- ❑ Durga Sweet Shop, Deharadun, UK
- ❑ Saini Misthan Bhandar, Alwar
- ❑ Dr. Arundhati B Panwar, Pune
- ❑ Tripura Renewable EnergyDevelopment Agency
- ❑ Technocracy India, Gaziabad,U.P.
- ❑ Flame India, Ahmedabad
- ❑ Mr. Mandeep Singh, Delhi
- ❑ Mr.Mahadeb Dey, West Bengal



IIT, ROORKEE



IIT Ropar

OUR PRODUCTS SOLD IN INDIA

- ✓ Jammu & Kashmir
- ✓ Himachal Pradesh
- ✓ Chandigarh
- ✓ Punjab
- ✓ Uttarakhand
- ✓ Haryana
- ✓ Delhi
- ✓ Rajasthan
- ✓ Uttar Pradesh
- ✓ Gujarat
- ✓ Madhya Pradesh
- ✓ Chhattisgarh
- ✓ Maharashtra
- ✓ Telangana
- ✓ Pondicherry
- ✓ Tamil Nadu
- ✓ Kerala
- ✓ Jharkhand
- ✓ West Bengal
- ✓ Sikkim
- ✓ Meghalaya
- ✓ Assam
- ✓ Bihar
- ✓ Arunachal Pradesh
- ✓ Orissa
- ✓ Goa
- ✓ Karnataka
- ✓ Andhra Pradesh



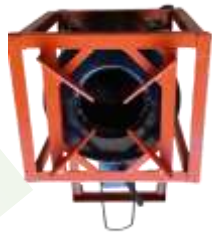
ESB-R BIOMASS STOVES



**ESB-R
Bio-Nature**



**ESB-R
Harit-Agni12**



**ESB-R
Green-Agnika10**



**ESB-R
Harit-Agni12B**



**ESB-R
Green-Magic15**



**ESB-R
Bio-Prithvi24**



**ESB-R
Bio-Virat18**



**ESB-R
Harit-Jumbo27**



**ESB-R
Bio-Akash21**



**ESB-R
Jumbo-Shakti36**

OUR PRODUCTS



**Automaking Roti
Making Machine**



**Biomass based
Automatic
Mawa-Machine**



**Portable Biomass
Gasifier**



**Roti Maker
Biomass Stove**



Biogas Generator



**Used Oil
Recycling Plant**



**Multi-Purpose
Food Processing
Machine**



**Biomass
Torrefaction Plant
(Charcoal Plant)**



**Wood Cutter /
Biomass Shredder**



**Biomass
Briquette
Pellet Machine**

AWARDS

- ✓ Fifth National Grassroots Innovation Award, 2009.
- ✓ Innovation Scholars In-residence Program At President House.
- ✓ Indian Merchant Chamber (IMC) – Inclusive Innovation Award, 2012.
- ✓ Certificate of Appreciation As “Farmer Scientist” By Rajasthan University of Veterinary & Animal Sciences, Bikaner, Rajasthan.
- ✓ Certificate of “Farmer Scientist” By Pacific University, Udaipur, Rajasthan.
- ✓ Certificate From Department of Science & Technology At National Science Day, Jaipur, Rajasthan.
- ✓ Business Expo Kota 2023, Kota, Rajasthan.



EXHIBITIONS

- ✓ Exhibition of Innovations, President House, 2010
- ✓ Inauguration of ESB-R Biomass gasifier by former chief minister of Meghalaya, 2013
- ✓ Third international conference on creativity & innovations at grassroots at Indian institute of management (IIM), Ahmedabad, 2015
- ✓ Exhibition of innovations, President House, 2015
- ✓ India International Science Festival (IISF), New Delhi, 2016.
- ✓ India International Trade Fair (IITF), New Delhi, 2016.
- ✓ Mega Science & Technology and Industry Expo, New Delhi, 2017
- ✓ Bollywood movie Padman promotion, 2018.



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<https://www.instagram.com/enersolbiopower/>

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