



**A STEP TOWARDS GREEN ENERGY**

## **ENERSOL BIOPOWER PVT. LTD.**

Enersol 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 SOLAR**



### **SMOKELESS DOMESTIC BIOMASS STOVE**

The ESB-R Bio-Mini Solar is a smokeless domestic biomass stove with a solar panel and LED light, specially designed to replace traditional biomass stoves and kerosene lamps in villages and towns. It provides a two-in-one solution, enabling cooking food as well as illuminating the house.

## SAY **NO** TO TRADITIONAL BIOMASS STOVE

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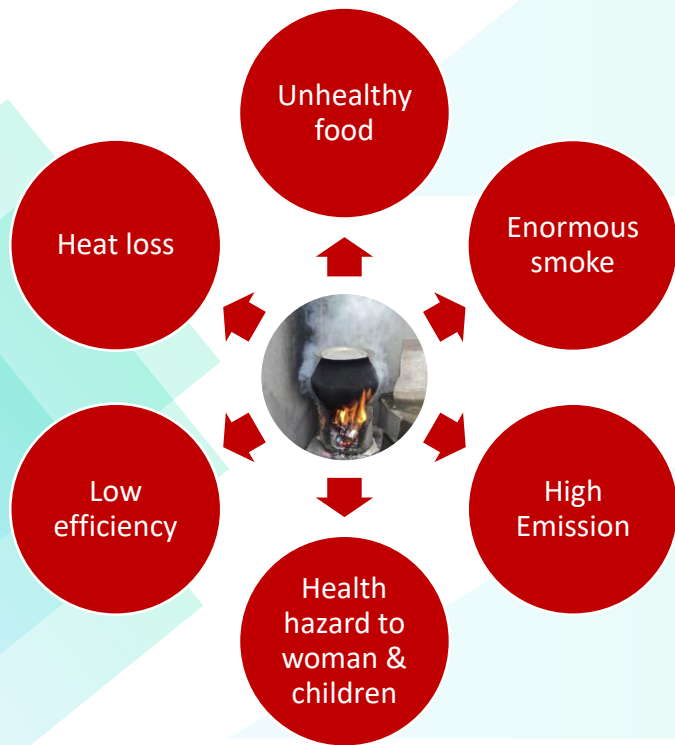


## SAY **YES** TO ESB-R BIO-MINI SOLAR

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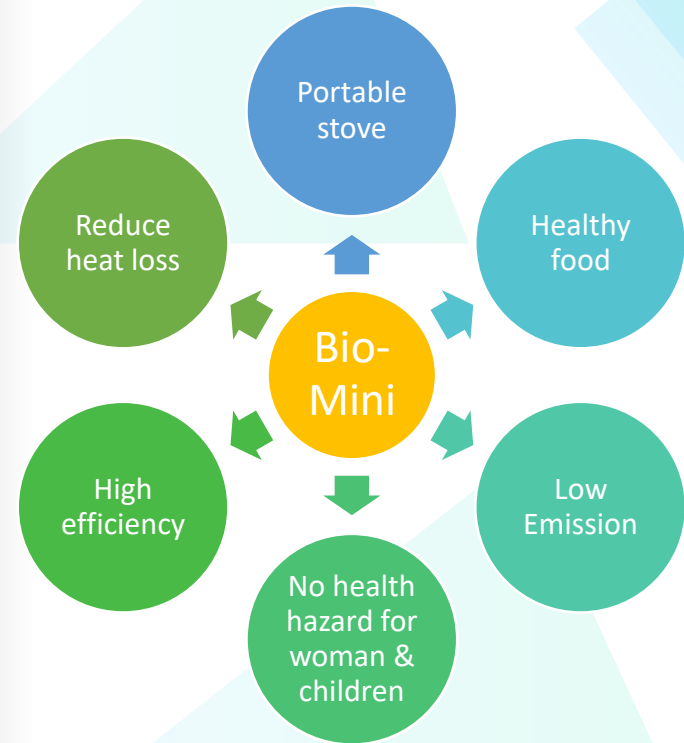


## TRADITIONAL BIOMASS STOVE



Vs.

## ESB-R BIO-MINI SOLAR SMOKELESS BIOMASS STOVE



## KEY FEATURES OF ESB-R BIO-MINI SOLAR

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

- ✓ In many villages, there are electricity cuts during the evening, especially between 7 PM and 10 PM. To light up their homes during these times, people use kerosene lamps, which emit harmful emissions. Our ESB-R Bio-Mini Solar stove offers a solution. It is a portable stove equipped with a 10-watt solar panel and a 12-hour battery backup, along with one LED light. Besides cooking food, our stove serves as the best alternative to these kerosene lamps. While preparing meals, they can turn it on to illuminate their house. Once cooking is done, children can take it to their rooms and study.
- ✓ 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	Enersol 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 Solar**

Model No.  
**ESB-R/BM01s**

LED Light  
**One LED**

Stove  
Weight  
**14kg Approx.**

Stove Type  
**Forced-draft**

Power  
Required  
**12V DC Fan**

Solar Panel  
**10 Watt**

Stove Dimension  
**H12"  
W12"  
L18"**

## ESB-R BIO-MINI SOLAR PICTURES



## APPLICATIONS



Replaces traditional  
wood stoves



To prepare pakora for  
5-25 people



To prepare poha for  
5-25 people



To boil water &  
milk



To prepare Samosa &  
kachori for 5-25 people



At tea & coffee stall



To prepare food for  
5-25 people



At small hotel,  
restaurant & dhaba

## CONNECT US ON YOUTUBE

- ✓ <https://www.youtube.com/watch?v=7MVHph7NfkY>
- ✓ <https://www.youtube.com/watch?v=hoFHYyMAstY>
- ✓ <https://www.youtube.com/watch?v=-XmU5L6lytM>
- ✓ [https://www.youtube.com/watch?v=-dsKwNdd\\_IY](https://www.youtube.com/watch?v=-dsKwNdd_IY)
- ✓ <https://www.youtube.com/watch?v=vY73UXW6aIM>

- ✓ <https://www.youtube.com/watch?v=FYPajsGRrrw>
- ✓ <https://www.youtube.com/watch?v=6cYUyY25OXE>
- ✓ <https://www.youtube.com/watch?v=qPXbaBs1cgU>
- ✓ <https://www.youtube.com/watch?v=qT4slGGJEfl>
- ✓ <https://www.youtube.com/shorts/JL5d8YCauc>



- ✓ [https://www.youtube.com/shorts/YdZkz\\_QbkLU](https://www.youtube.com/shorts/YdZkz_QbkLU)
- ✓ <https://www.youtube.com/watch?v=LKDlbvXdHyM>
- ✓ <https://www.youtube.com/watch?v=PfQVa7wNUBU&t=33s>
- ✓ <https://www.youtube.com/watch?v=RjHPXigdAa8>
- ✓ <https://www.youtube.com/watch?v=7MVHph7NfkY&t=116s>
- ✓ <https://www.youtube.com/watch?v=LKDlbvXdHyM>
- ✓ <https://www.youtube.com/watch?v=5zYZ5I5zBfc>
- ✓ <https://www.youtube.com/watch?v=0AhISC5Dw00>
- ✓ [https://www.youtube.com/watch?v=mkyeqDBI\\_2Y](https://www.youtube.com/watch?v=mkyeqDBI_2Y)
- ✓ <https://www.youtube.com/watch?v=W9HXk2M-Mgw>
- ✓ <https://www.youtube.com/watch?v=I8NuflvOH4k>
- ✓ <https://www.youtube.com/watch?v=Rp17MmDRilQ>



## OUR PRESTIGIOUS PARTNERS

- ❑ Celebration Enterprise, Bankura, West Bengal
- ❑ Tarun Enterprise, Medinipur- West Bengal
- ❑ Shree Varindavan Thali Restaurant, Korba, Chhatisgarh
- ❑ Ratan Masthan Bhandar, Siwana, Barmer
- ❑ Sharma Masthan 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 Masthan 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

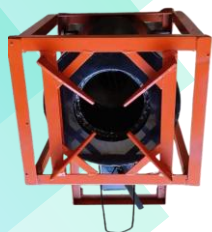
- ✓ Jammu & Kashmir
- ✓ Himachal Pradesh
- ✓ Chandigarh
- ✓ Punjab
- ✓ Uttarakhand
- ✓ Haryana
- ✓ Delhi
- ✓ Rajasthan
- ✓ Uttar Pradesh
- ✓ Gujarat
- ✓ Madhya Pradesh
- ✓ Chhattisgarh
- ✓ Maharashtra
- ✓ Pondicherry
- ✓ Tamil Nadu
- ✓ Kerala
- ✓ Jharkhand
- ✓ West Bengal
- ✓ Sikkim
- ✓ Meghalaya
- ✓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



## ESB-R BIOMASS STOVES



**ESB-R  
Bio-Nature**



**ESB-R  
Green-Agnika10**



**ESB-R  
Harit-Agni12**



**ESB-R  
Harit-Agni12B**



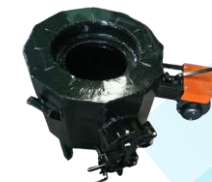
**ESB-R  
Green-Magic15**



**ESB-R  
Bio-Virat18**



**ESB-R  
Bio-Akash21**



**ESB-R  
Bio-Prithvi24**



**ESB-R  
Harit-Jumbo27**



**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**



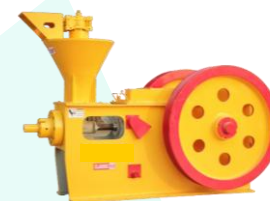
**Multi-Purpose  
Food Processing  
Machine**



**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.



## CONNECT US

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<https://www.youtube.com/@enersolbiopower-biomassgas3987>



<https://www.indiamart.com/enersol-biopower-jaipur/profile.html>



<https://twitter.com/EnersolBiopower>



<https://www.linkedin.com/company/enersol-biopower-pvt-ltd>



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

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