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BIOMASS BRIQUETTES

GO GREEN, USE AGRO FUEL

www.energyplusindia.com

India, a signatory of Kyoto protocol 2002, is committed to reduce carbon emission and become carbon neutral by year 2050 to fight global warming. During the recent G20 summit, the primary focus was on tackling global warming. The G20 nations have set a goal to triple the world's renewable energy capacity by 2030 and expedite efforts to phase out the use of fossil fuels. As fossil fuel remains the primary source of carbon emission in the globe, Energy plus has come forward to do its part in this mission by providing clean green carbon neutral fuel to the industry.

With an objective to provide industries an alternate to fossil fuel at affordable price to reduce the menace of CO2 emission, Energy plus group has established a manufacturing plant at the outskirts of Kolkata to manufacture 'Clean Green Biomass Briquette', made of 100% agro waste, a fuel encouraged by environmentalist, Pollution Control Boards and Governments across the globe including India.

Our cutting-edge plant that spans 1.5 acres, making it one of the largest in South Bengal. It is located on the outskirts of Kolkata and is connected by NH34. Our goal is to provide our clients with the highest quality biomass briquettes made from seasonal agro waste and wood waste. We supply briquettes to our clients year-round, regardless of the season.



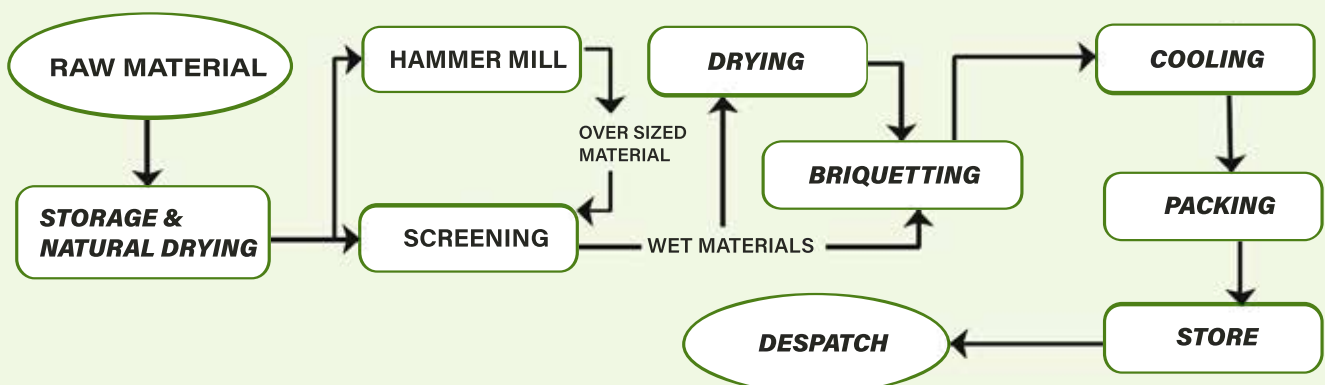
ABOUT THE PRODUCT

We manufacture 90 mm biomass briquette made of 100% seasonal agro waste and wood waste. So far we have produced briquettes made of Saw Dust, Wood Chips, Ground Nut shell, Beetel Nut Shell, Paddy Straw, Mustard Husk and Stalk, Jute Stick etc. No chemical is used during manufacturing of briquettes. We also supply briquette of other sizes. Typically it has higher calorific value, lower moisture and lower ash content. List of such briquettes with their GCV and other properties are as below.

ANALYSIS OF BRIQUETTES MADE FROM DIFFERENT RAW MATERIALS

SN.	TYPE OF MATERIAL	GROSS CALORIFIC VALUE	FIXED CARBON (%)	VOLATILE MATTER (%)	ASH CONTENT (%)	MOISTURE CONTENT (%)
01	SAWDUST	4199	16.68	71.10	4.32	7.90
02	SAWDUST + BETEL NUT SHELL	4111	16.89	69.82	3.43	9.86
03	SAWDUST + STRAW	3617	15.46	66.16	8.95	9.43
04	SAWDUST + JUTE STICK	4120	13.35	72.47	4.17	10.01
05	SAWDUST + GROUND NUT HUSK	4177	15.99	66.68	8.04	9.29
06	GROUND NUT HUSK	4078	19.15	67.32	4.34	9.19
07	MUSTARD HUSK + SAWDUST	3680	18.70	62.27	9.58	9.45

Green Fuel (Biomass Briquettes) manufacturing and Supply process



BENEFIT OF BIOMASS BRIQUETTES

GENERAL BENEFITS:

Environment Friendly: Biomass briquette is Carbon Neutral, Sulphur Free, Pollution Free clean fuel. It helps to fight Global Warming. Hence it is encouraged by Pollution Control Board and Government over fossil fuels including coal, liquid and gaseous petroleum products etc.

Pocket Friendly: Compare to most of the conventional fuels, it is economical to use biomass briquette. Total cost to generate 1 ton steam or 1 Lac Kcal heat is lower than most of the conventional fuels.

Uniform Fuel: It is available in uniform sizes and ready to use, leading to controlled combustion and smokeless heat generation with a consistent calorific value.

Low Moisture Content : Compared to other solid fuels, Briquettes has controlled moisture i.e, 6-10% which leads to higher efficiency.

Low ash content: Ash generated from Biomass briquette is non-hazardous and much lesser quantity (from 1% to 8%) as compare to coal, husk etc. As quantity of ash generated is very less, handling is easier and economic.

Easy Transportation and handling: Transported in 30-35kg bags, easy to Transport, Storage and Handling.

Compact and Clean Storage area: Biomass briquettes have about 500-600 kg/M3 bulk density and requires much lower storage space as compared to husk and other loose agro fuels. As it is stored in bags, storage space remains clean.



SOCIAL BENEFITS :

Prevent Stubble burning: Using agro waste as an incentive for farmers, discourages stubble burning, which is a common phenomenon of pollution during the harvest season across the country.

Higher Income for Farmers: Income goes up as farmer gets price for their waste.

Rural Income Generation: Biomass briquette production is manpower intensive, leading higher rate of employment and income opportunities for local communities, especially in rural areas from where raw material is sourced and plant is located. It improves economic condition of entire local community.

CONCLUSION:

To sum up, switching from fossil fuels to biofuels is a crucial step towards a more sustainable and eco-friendly energy future. This change not only helps to reduce the harmful effects of fossil fuel missions on the planet's climate, but

also provide a range of economic and social benefits. Biofuel, which come from renewable resources, help to lessen greenhouse gas emissions, improve air quality, and reduce our reliance on finite fossil fuel reserves. Additionally, this shift has the potential to encourage innovation, create jobs, and boost rural economies through the cultivation and processing of biofuel feedstocks. The transition to biofuels is an essential strategy in our mission towards a cleaner, healthier, and more prosperous future for generations to come.



Why Choose Energy Plus Green ?

Energy Plus Green is the sister concern of Energy Plus Group companies, a Kolkata-based ISO 9001:2015 certified Utility Management organization that provides Industrial Utility solutions and services since 2001.

- ✔ Our extensive experience in the field enables us to create O&M plans tailored to each customer's specific requirements, ensuring maximum plant reliability, minimal utility cost, hassle-free operation, minimal environmental pollution, and zero accidents.
- ✔ Our main expertise is in operating and maintaining process boilers that use a variety of fuels, including LPG, Natural Gas, LSHS, HSD, Coal, Husk, and Biomass Briquette.
- ✔ We have the required expertise for conversion of Boiler from Fossil fuels to Biomass Briquettes .
- ✔ With an objective to provide industries with reduced fuel expenses, increased system efficiency and lowered emission of pollutants, Energy Plus is fully focused on Saving Energy For The Future.

With the above expertise, Energy Plus Green is the best suite to conduct thorough assessments and provide effective solutions for industrial utility needs. You can trust that your industrial utility needs will be met with diligence, precision, and a focus on delivering optimal results for your organization.

Say goodbye to fossil fuels and ride the renewable energy wave !