

ASHMIT BIO SYNERGY

PRIVATE LIMITED

Premium Biomass Pellets & Briquettes

Powering Industry. Protecting the Planet.

Rice Husk · Agro-Residue · Torrefied Pellets

CARBON NEUTRAL FUEL

THERMAL POWER SUPPLY

INDUSTRIAL BOILERS

GOVT. EMPANELLED

Uttar Pradesh, India | 2020

WHO WE ARE

AshmitBioSynergyPrivate Limited is a Uttar Pradesh-based manufacturer of **premium biomass pellets and briquettes** from agricultural residues — primarily rice husk, wheat straw, and mustard stalks. We convert farm waste into high-energy, carbon-neutral industrial fuel, supplying thermal power plants, industrial boilers, brick kilns, and process furnaces across UP and Central India.

Backed by state-of-the-art densification technology, rigorous quality testing, and a robust raw material sourcing network across the Kanpur–Unnao–Fatehpur belt, we deliver consistent, reliable fuel supply — 12 months a year.

OUR MISSION
To replace fossil coal in Indian industry with clean, affordable, locally-sourced biomass fuel — creating livelihoods for farmers and a healthier environment for all.

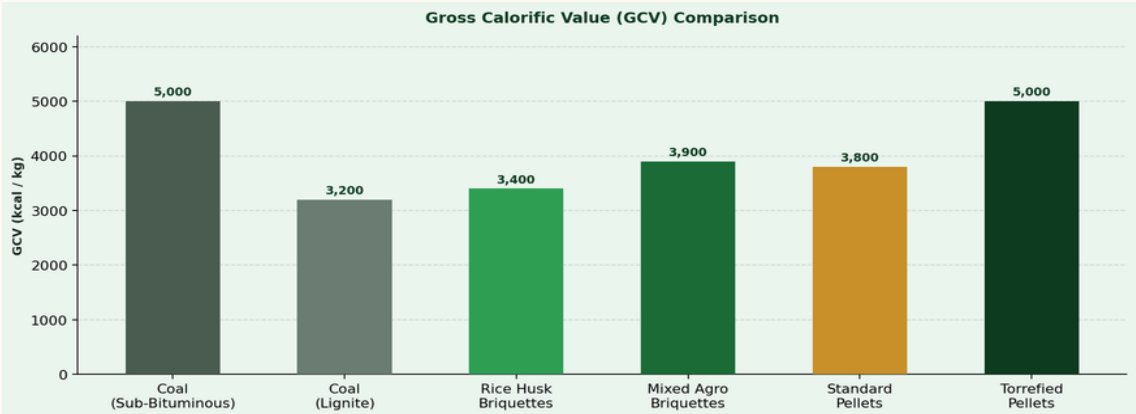
OUR VISION
To be Uttar Pradesh's most trusted biomass fuel brand — synonymous with quality, reliability, and sustainability by 2030.

OUR PRODUCTS

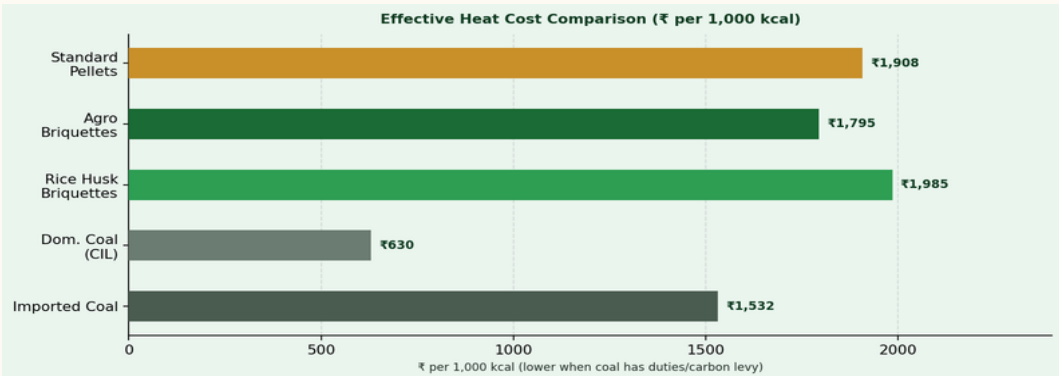
PRODUCT	GCV (kcal/kg)	MOISTURE	ASH %	BEST FOR
Rice Husk Briquettes	3,200–3,600	< 10%	15–20%	Brick kilns, boilers, furnaces
Mixed Agro Briquettes	3,500–4,200	< 10%	8–15%	Industrial boilers, process heat
Standard Pellets (6–8 mm)	3,400–3,800	< 12%	14–18%	Thermal power co-firing, boilers
Premium Pellets (Torrefied)	4,500–5,200	< 8%	5–10%	Direct coal replacement in TPPs
Rice Husk Ash (RHA)	N/A	N/A	90%+ SiO2	Cement, refractory, construction

FUEL PERFORMANCE COMPARISON

Our biomass fuels are rigorously tested and compete effectively with coal — especially when the **total cost of energy** (including sulphur treatment, carbon levies, ash disposal, and co-firing mandate penalties) is considered.



GCV values tested per BIS IS 1350 standards. Rice husk briquettes deliver 3,200–3,600 kcal/kg, suitable for all sub-bituminous coal applications.

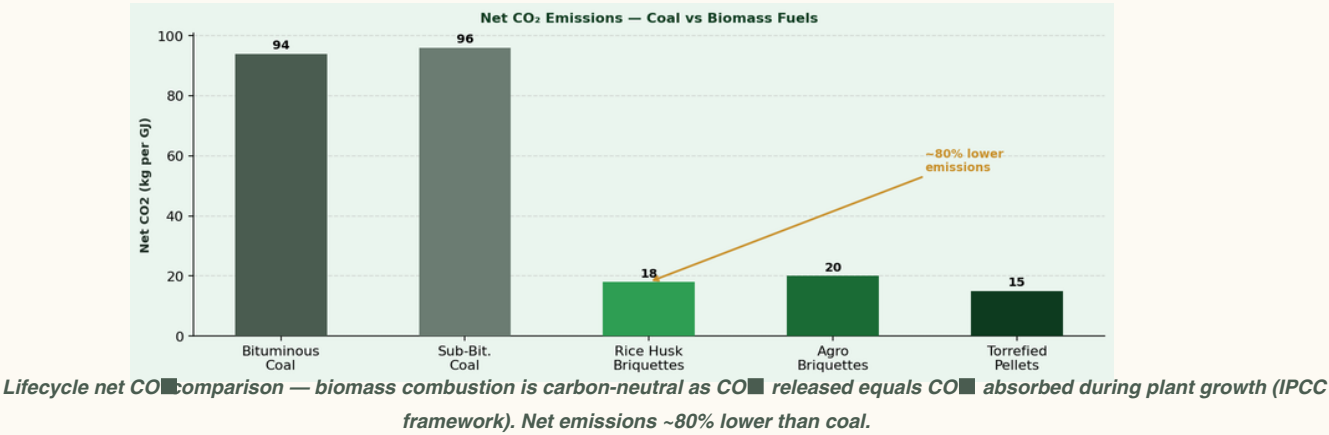


Effective heat cost (per 1,000 kcal) — the only fair metric for fuel comparison. When carbon levy, sulphur compliance, and ash disposal costs are added to coal, biomass becomes highly competitive.

< 0.1% Sulphur Content (vs 0.5–1.5% in coal)	~80% Lower Net CO ₂ vs Bituminous Coal	3,200–5,200 kcal/kg GCV Range Across Product Line	Zero Coal Royalty / Mine Levy
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WHY SWITCH TO BIOMASS FUEL?

Government Mandate	Ministry of Power mandates 7% biomass co-firing in all thermal power plants from FY 2025–26. Non-compliance attracts penalties. Biomass supply contracts with Ashmit Bio Synergy ensure your plant stays compliant — always.
Carbon Credit Revenue	Replacing coal with biomass generates Carbon Credit Certificates (CCCs) under India's CCTS framework (FY 2025–26 onwards). At ₹900–1,350 per tonne CO₂e , a 1,000 MT/month plant can earn ₹8–15 lakh/month in carbon credits alone.
Zero Sulphur Emissions	Rice husk briquettes contain <0.1% sulphur — eliminating FGD (flue gas desulphurisation) operating costs and SO ₂ compliance headaches entirely.
ESG & Sustainability Goals	Global buyers, banks, and investors increasingly require verified emission reduction. Switching to biomass fuel earns measurable ESG credentials, helps BRSR reporting, and positions your company as a sustainability leader.
Local Sourcing — No Import Risk	100% India-grown agri-residue feedstock. No dependence on Indonesian or Australian coal imports, no foreign exchange risk, no port logistics. Stable local supply chain.
Farmer Livelihood Support	Every tonne of biomass procured converts paddy husk from a burning hazard into farm income — contributing to UP's rural economy and reducing stubble burning.



WHO WE SERVE

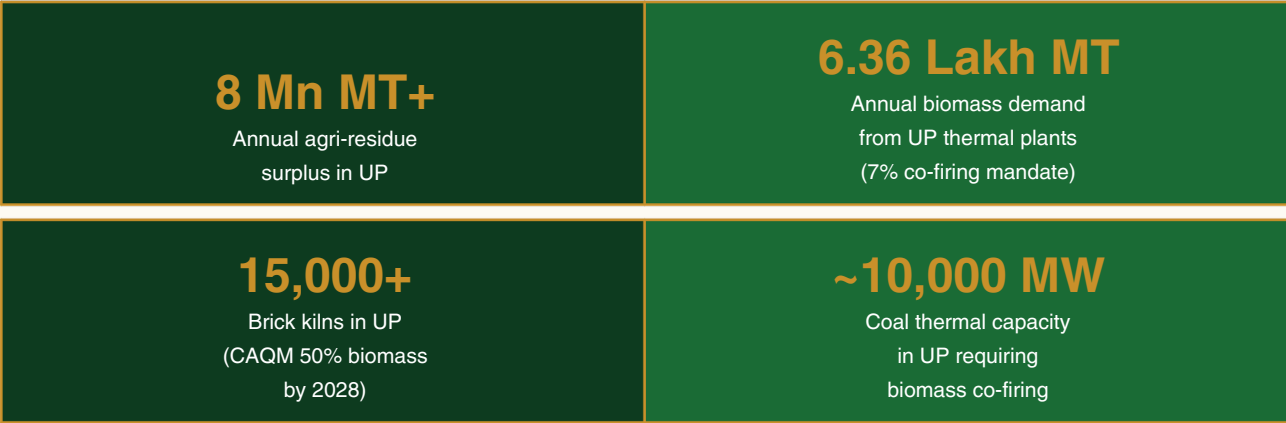
THERMAL POWER PLANTS NTPC, UPRVUNL, state DISCOMs Co-firing mandate compliance supply 5,000–15,000 MT/month at scale	INDUSTRIAL BOILERS Textile mills, chemical plants, leather units Direct coal substitution / co-firing 200–2,000 MT/month
BRICK KILNS UP's 15,000+ kilns; CAQM 50% biomass mandates by 2028 50–500 MT/month per cluster	FOOD PROCESSING Sugar mills, rice parboiling, spice processing Steam generation applications 100–800 MT/month
PAPER & PULP MILLS Process steam; partial coal replacement Low-sulphur fuel advantage 500–2,000 MT/month	EXPORT MARKETS Europe, Japan, South Korea (medium term) USD 150–250/MT premium pricing Pending ENplus certification

OUR SUPPLY CAPACITY

PARAMETER	CURRENT	YEAR 2 TARGET	YEAR 5 VISION
Monthly Capacity (MT)	500–1,000	1,500–2,000	3,500–5,000
Annual Capacity (MT)	6,000–12,000	18,000–24,000	42,000–60,000
Product Types	Briquettes + Pellets	+ Torrefied Pellets	+ Export Grade
Delivery Radius	150 km	300 km	Pan-India + Export
Supply Contracts	3–6 months	12 months	Multi-year TPP contracts
Quality Certifications	BIS IS 16402	+ Lab reports	+ ENplus (export)

THE UTTAR PRADESH ADVANTAGE

Uttar Pradesh generates >8 million MT of agricultural residue annually — the largest biomass surplus of any Indian state. Ashmit Bio Synergy's Kanpur-region base puts us at the heart of this abundance, within easy reach of the state's largest thermal power plants and industrial belts.



GOVERNMENT SUPPORT & SCHEMES

SCHEME	BENEFIT
MNRE National Bioenergy Programme	■42 lakh/MT capacity CFA grant (max ■2.10 Cr) for biomass pellet/briquette plants
SAMARTH Biomass Mission	Vendor empanelment portal for long-term thermal power plant supply contracts
Priority Sector Lending (RBI)	Biomass manufacturing classified as PSL — preferential bank lending rates
UP MSME Policy 2022	15–25% capital subsidy + power tariff waiver + stamp duty exemption
Carbon Credit Trading Scheme (CCTS)	Earn tradeable Carbon Credit Certificates from FY 2025–26 (■830–■1,350/tCO■)
GeM Portal Procurement	Dedicated biomass category for direct government institutional purchase

QUALITY ASSURANCE

Every batch of Ashmit Bio Synergy fuel is tested for calorific value, moisture, ash content, and sulphur before dispatch. We provide full test reports with each consignment — giving our customers complete transparency and confidence.

QUALITY PARAMETER	TEST METHOD	OUR STANDARD	INDUSTRY NORM
Gross Calorific Value	BIS IS 1350 / Bomb Calorimeter	3,200–5,200 kcal/kg	≥ 3,000 kcal/kg
Moisture Content	Oven drying method	< 10–12%	< 15%
Ash Content	Muffle furnace 550°C	< 15–20%	< 25%
Sulphur Content	IS 1350 Part II	< 0.1%	< 0.5%
Bulk Density	ASTM D1895	650–750 kg/m³	≥ 600 kg/m³
Fixed Carbon	Proximate analysis	16–22%	≥ 14%
Volatile Matter	Proximate analysis	50–58%	45–65%
Size (Briquettes)	Physical measurement	60–90 mm length	Uniform
Size (Pellets)	Physical measurement	6–8 mm dia.	6–10 mm

WHY CHOOSE ASHMIT BIO SYNERGY?

✓ Consistent GCV Every batch tested; GCV certificates provided	✓ Reliable Supply 60-day inventory; year-round availability	✓ Compliance Support Co-firing mandate documentation assistance
✓ Flexible Volumes From 50 MT to 5,000 MT/month	✓ Carbon Credits Help clients earn CCTS carbon credits	✓ Zero Sulphur No FGD costs; CPCB compliant fuel
✓ Local Sourcing No import risk; stable pricing	✓ Ash Revenue RHA buyback option available	✓ Full Documentation Test reports, delivery challans, GST invoices

CLEAN FUEL. GREEN FUTURE.

Partner with Ashmit Bio Synergy for a reliable, affordable, carbon-neutral biomass fuel supply that keeps your plant compliant, your costs controlled, and your ESG goals on track.

GET IN TOUCH

Company Ashmit Bio Synergy Private Limited	Location 202 B, Felix Square, Ansal Golf City, Lucknow, UP
Sector Biomass Pellets & Briquettes Manufacturing	Supply Zone Uttar Pradesh & Central India
Products Rice Husk Briquettes Agro Pellets Torrefied Pellets RHA	Certifications BIS IS 16402 SAMARTH Empanelled GeM Registered

Email us :

contact@ashmitbiosynergy.com

sales@ashmitbiosynergy.com

Consulting&FinancialAdvisory:DTaxperts | Kanpur,UttarPradesh | www.dtaxperts.in