



Licenses the unique process to produce

GreenCoal™ - Torrified Biomass
Renewable Energy Coal Substitute

· **Sustainable** · **Renewable** · **Carbon Neutral**

What is it?

Torrefied biomass has undergone a thermochemical treatment in which it is roasted via a light pyrolysis process, removing most moisture and volatile compounds leaving a final product which is solid with many of the same characteristics as coal. The torrefied product contains 70% of its mass **AND 90% its initial energy content.**

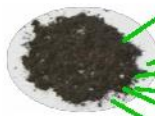


Superior fuel properties:

Friable, Good Grindability	Excellent Transport, handling, storage
10,000-11,000 BTU/LB	Superior Milling, feeding
Hydrophobic	Excellent Combustion, Low Volatility
Lower SOx & NOx emissions	No Heavy Metals Emissions (i.e. mercury)
Higher Energy Density	Cleaner Burning
Can be Fed with Coal	No Separate Feedstock System Needed
Higher Co-firing Capacity & Flexibility	Very Low Ash Content

Why include Torrified Biomass in your fuel mix?

**Reduce Emissions with
 No Capital Investment**



- Has a high energy density approaching that of coal (10,000 to 11,000 Btu per pound)
- Has a high bulk density and is therefore efficiently transported (800 to 850 Kg/m²)
- Easily ground for pulverized boilers or can be briquetted for use in moving grate boilers
- Very low sulfur content (approximately 0.1%) hydrophobic so it can be stored outdoors, just like coal
- Is a homogeneous, high quality, low volatility fuel
- Is carbon neutral

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