

# Terra Green Energy, LLC

## Torrified Biomass —“Green Coal”

### Renewable Energy Coal Substitute



- Sustainable
- Renewable
- Carbon Neutral

#### What is it?

Torrified 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

10,000-11,000 BTU/LB

Hydrophobic

Lower SO<sub>x</sub> & NO<sub>x</sub> emissions

Higher Energy Density

Can be Fed with Coal

Higher Co-firing Capacity & Flexibility

Excellent Transport, handling, storage

Superior Milling, feeding

Excellent Combustion, Low Volatility

No Heavy Metals Emissions (i.e. mercury)

Cleaner Burning

No Separate Feedstock System Needed

Very Low Ash Content

#### Why include Torrefied 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/m<sup>2</sup>)

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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