



What is the Energy Content of Wood?

<i>Energy in 1 ton of green wood chips:</i>	<i>Energy in 1 truckload (25 tons) of green wood chips:</i>
8.6 million btu's (British Thermal Units)	Electricity supply for 15 Georgia homes for one month
661 kWhrs of electricity	Fuel for 20,000 miles of commuting in a vehicle @ 20 miles per gallon
40 gallons gasoline or diesel	Heating needs for the average US home for 2 winters
8,000 cubic feet of natural gas	
.5 ton of premium wood pellets (from clean wood chips or sawdust)	

If the delivered cost of wood chips is \$26 per green ton, what would be the competitive costs of fossil fuels?

- Natural gas \$3.69 per thousand cubic feet
- Propane \$0.32 per gallon
- Coal \$117 per ton

Sources

Forest Products Laboratory, US Forest Service, WOE-3, 2004

Energy Information Administration, www.eia.doe.gov, 2009

Personal communications with William Bulpitt, Georgia Institute of Technology and Roger Reiser, C2 Biofuels, 2008