

- 1 metric ton = 1.102 short tons
- 1 barrel oil equivalent = approximately .20 metric tons of hard coal
- 1 barrel oil equivalent = approximately .41 metric tons of lignite coal
- 1 metric ton oil equivalent = approximately 1.5 metric tons of hard coal
- 1 metric ton oil equivalent = approximately 3 metrics tons of lignite coal
- 1 metric ton hard coal = approximately 5 barrels oil equivalent
- 1 metric ton hard coal = approximately .67 metric tons of oil equivalent
- 1 metric ton lignite coal = approximately 2.5 barrels oil equivalent
- 1 metric ton lignite coal = approximately .33 metric tons of oil equivalent

* Energy contents are expressed as either High (gross) Heating Value (HHV) or Lower (net) Heating Value (LHV). LHV is closest to the actual energy yield in most cases. HHV (including condensation of combustion products) is greater by between 5% (in the case of coal) and 10% (for natural gas), depending mainly on the hydrogen content of the fuel. For most biomass feed-stocks this difference appears to be 6-7%. The appropriateness of using LHV or HHV when comparing fuels, calculating thermal efficiencies, etc. really depends upon the application. For stationary combustion where exhaust gases are cooled before discharging (e.g. power stations), HHV is more appropriate. Where no attempt is made to extract useful work from hot exhaust gases (e.g. motor vehicles), the LHV is more suitable. In practice, many European publications report LHV, whereas North American publications use HHV (Source: Bioenergy Feedstock Network -- <http://bioenergy.ornl.gov/>)

References

- Bioenergy Feedstock Information Network: <http://bioenergy.ornl.gov/>
- Biomass Energy Datebook, U.S. Department of Energy: http://cta.ornl.gov/bedb/appendix_a.shtml
- BP Conversion Factors: <http://www.bp.com/conversionfactors.jsp>
- ConvertIt: <http://www.convertit.com/Go/ConvertIt/Measurement/Converter.ASP>
- Energy Information Administration: <http://www.eia.doe.gov/>
- Energy Information Administration - Energy Kids Page: http://www.eia.doe.gov/kids/energyfacts/science/energy_calculator.html
- Iowa Energy Center, Iowa State University: <http://www.energy.iastate.edu/>
- Wikipedia: http://en.wikipedia.org/wiki/Main_Page

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