

Appendix 7 Reference values for the energy content of fuels

The reference values listed below must be used for calculating the energy consumption:

	Densitet	LHV (dry matter)	
	Kg/m ³	MJ/kg	kWh/kg
Natural gas		45,1	12,5
Diesel	832	43,1	12,0
Hard coal		26,5	7,4
Heating oil	970	40,5	11,3
Wood (oven dry)	300-680	19,2	5,3
Wood 30%	450-750	18,5	5,1

Ref: JEC (2014): *Well-to-wheels Analysis of Future Automotive Fuels and Powertrains in the European Context WTT APPENDIX 1 Conversion factors and fuel properties*

FAO (2015): *Wood fuels handbook*

Density of the most common tree species specified as kg per m³ (this may vary from 10 - 20% on each side)

Tree species	Density in kg per m ³ (dry wood)
Hornbeam	640
Beech	580
Ash	570
Oak	570
Birch	540
Alder	440
Scots pine	430
Spruce	370
Coconut shell	430