



SERBIA	BIOMASS				FOSSIL FUELS		
	Price/t (incl. VAT, excl. Transport)	VAT for biomass in %	av. transport costs of biomass km	Average energy content MWh/t of biomass ¹	Average energy content MWh/t for fossil fuels (a) Natural gas ² (b) heating oil ³ (c) and coal	Price/unit & Price/t (incl. VAT, excl. transport)	Price/t ⁴ (incl. VAT, excl. transport) with the same energy content than 1 ton of the biomass product
Firewood	40.00 – 50.00 €/t	10%	1.50 – 2.00 €/km	2.3 – 4.2 MWh/t	(a) 12.7 – 14.1 MWh/t (b) 11.2 – 11.8 MWh/t (c) 7 MWh/t	(a) 0.31 €/m ³ or 387.50 €/t (b) 0.42 €/l or 467.00 €/t (c) 100.00 €/t	(a) 66.00 – 140.00 €/t (b) 91.00 – 175.00 €/t (c) 33.00 – 60.00 €/t
Wood chips	45.00 – 60.00 €/t	20%	1.50 – 2.00 €/km	2.0 – 4.2 MWh/t	(a) 12.7 – 14.1 MWh/t (b) 11.2 – 11.8 MWh/t (c) 7 MWh/t	(a) 0.31 €/m ³ or 387.50 €/t (b) 0.42 €/l or 467.00 €/t (c) 100.00 €/t	(a) 57.00 – 140.00 €/t (b) 63.00 – 175.00 €/t (c) 28.00 – 60.00 €/t
Wood pellets	140.00 – 210.00 €/t	20%	1.50 – 2.00 €/km	4.8 MWh/t	(a) 12.7 – 14.1 MWh/t (b) 11.2 – 11.8 MWh/t (c) 7 MWh/t	(a) 0.31 €/m ³ or 387.50 €/t (b) 0.42 €/l or 467.00 €/t (c) 100.00 €/t	(a) 138.00 – 160.00 €/t (b) 190.00 – 200.00 €/t (c) 68.00 €/t
Wood briquettes	180.00 – 200.00 €/t	20%	1.50 – 2.00 €/km	4.8 MWh/t	(a) 12,7 – 14,1 MWh/t (b) 11,2 – 11,8 MWh/t (c) 7 MWh/t	(a) 0.31 €/m ³ or 387.50 €/t (b) 0.42 €/l or 467.00 €/t (c) 100.00 €/t	(a) 137.00 – 258.00 €/t (b) 226.00 – 238.00 €/t (c) 102.00 €/t

¹ Range of MWh/t for firewood, wood chips and charcoal depends on the tree species from coniferous and broad-leaf-trees as well as depending on the moisture content

² Conversion of natural gas unit from kWh/m³ to MWh/t: Upper heating value 10,28 kWh/m³, Lower heating value 9.26 kWh/m³ with a density of 0,731 kg/m³-> 1368m³/t

³ Heating Oil/Mazut: 1111l/t

⁴ Calculate: Price for each fossil counterpart * (min.& max. energy content of biomass / max. & min. energy content of fossil fuel) = price range of fossil fuel with same energy content than 1 ton of respective woody energy product



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Charcoal	250.00 – 300.00 €/t	20%	1.50 – 2.00 €/km	7.8 – 8.5 MWh/t	(a) 12.7 – 14.1 MWh/t (b) 11.2 – 11.8 MWh/t (c) 7 MWh/t	(a) 0.31 €/m ³ or 387.50 €/t (b) 0.42 €/l or 467.00 €/t (c) 100.00 €/t	(a) 223.00 – 284.00 €/t (b) 308.00 – 354.00 €/t (c) 111.00 – 121.00 €/t