



CROATIA	BIOMASS				FOSSIL FUEL		
	Price/t (incl. VAT, excl. transport)	VAT for biomass in %	av. trans-port costs of biomass/km	Average energy content MWh/t of biomass <sup>5</sup>	Average energy content MWh/t for fossil fuels (a) Natural gas <sup>6</sup> (b) heating oil <sup>7</sup> (c) and coal	Price/unit & Price/t (incl. VAT, excl. transport)	Price/t <sup>8</sup> (incl. VAT, excl. transport) with the same energy content than 1 ton of the biomass product
Firewood	70.00 – 107.00 €/t	25%	1.30 – 2.00 €/km	2.3 – 4.2 MWh/t	(a) 12.7 – 14.1 MWh/t (b) 11.2 – 11.8 MWh/t (c) -	(a) 0.45 €/m <sup>3</sup> – 636.00 €/t (b) 0.50 €/l – 555.50 €/t (c) -	(a) 115.00 – 189.00 €/t (b) 114.00 – 198.00 €/t (c) -
Wood chips	45.00 – 68.00 €/t	25%	1.30 – 2.00 €/km	2.0 – 4.2 MWh/t	(a) 12.7 – 14.1 MWh/t (b) 11.2 – 11.8 MWh/t (c) -	(a) 0.45 €/m <sup>3</sup> – 636.00 €/t (b) 0.50 €/l – 555.5 €/t (c) -	(a) 100.00 – 189.00 €/t (b) 99.00 – 197.00 €/t (c) -
Wood pellets	195.00 – 275.00 €/t Enplus certified: >250.00 € non certified/ other certified: <250.00 €	25%	1.30 – 2.00 €/km	4.8 MWh/t	(a) 12.7 – 14.1 MWh/t (b) 11.2 – 11.8 MWh/t (c) -	(a) 0.45 €/m <sup>3</sup> – 636.00 €/t (b) 0.50 €/l – 555.50 €/t (c) -	(a) 216.00 – 240.00 €/t (b) 226.00 – 238.00 €/t (c) -
Wood briquettes	140.00 – 185.00 €/t	25%	1.30 – 2.00 €/km	4.8 MWh/t	(a) 12.7 – 14.1 MWh/t (b) 11.2 – 11.8 MWh/t (c) -	(a) 0.45 €/m <sup>3</sup> – 638.00 €/t (b) 0.50 €/l – 555.50 €/t (c) -	(a) 217.00 – 241.00 €/t (b) 225.00 – 238.00 €/t (c) -

<sup>5</sup> 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

<sup>6</sup> Conversion of natural gas unit from kWh/m<sup>3</sup> to MWh/t: Upper heating value 10,28 kWh/m<sup>3</sup>, Lower heating value 9.26 kWh/m<sup>3</sup> with a density of 0,731 kg/m<sup>3</sup>-> 1368m<sup>3</sup>/t

<sup>7</sup> Heating Oil/Mazut: 1111l/t

<sup>8</sup> 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