

**Table S1:** Monetized environmental impacts of miscanthus cultivation per hectare and year applying the ReCiPe (H) 1.13 methodology

Impact Category	Environmental impact	Unit	Environmental prices (€ Unit <sup>-1</sup> )	Monetized environmental impact
Climate change	1,224.96	kg CO <sub>2</sub> eq.	0.06	69.33
Fossil depletion	253.03	kg oil eq.	-	-
Freshwater ecotoxicity	28.87	kg 1,4-DCB eq.	0.04	1.04
Freshwater eutrophication	0.42	kg P eq.	1.86	0.78
Human toxicity	310.11	kg 1,4-DB eq.	0.10	30.73
Ionizing radiation	42.84	kg U <sub>235</sub> eq.	0.05	1,97
Land use	10,128.70	m <sup>2</sup> a crop eq.	0.08	855.88
Marine ecotoxicity	26.35	kg 1,4-DB eq.	0.01	0.19
Marine eutrophication	15.19	kg N eq.	3.11	47.23
Metal depletion	71.54	kg Fe eq.	-	-
Ozone depletion	6.95E-05	kg CFC-11 eq.	30.40	2.11E-03
Particulate matter formation	4.06	kg PM <sub>10</sub> eq.	39.20	159.34
Photochemical oxidant formation	4.98	kg NMVOC eq.	1.15	5.73
Terrestrial acidification	18.36	kg SO <sub>2</sub> eq.	4.97	91.23
Terrestrial ecotoxicity	0.26	kg 1,4-DB eq.	8.69	2.25
Water depletion	9.18	m <sup>3</sup> water eq.	-	-
<b>Total</b>	-	-	-	<b>1265.71</b>