

Table 1: Average values of emission factors and calorific values of selected fuels for Slovakia used in the greenhouse gas energy balance, determined using the bottom-up methodology

YEAR	2023		2024	
	NCV GJ/t	EF t CO ₂ /TJ	NCV GJ/t	EF t CO ₂ /TJ
Anthracite	26,35	99,54	26,92	100,42
Other Bituminous Coal	26,60	95,18	28,85	94,48
Lignite	10,88	98,60	17,99	98,01
Coking Coal	28,79	94,14	29,10	94,05
Coke oven/gas coke	27,14	109,27	27,48	106,51
Petroleum Coke	34,45	96,02	34,12	97,07
Heavy Fuel Oil (Low Sulphur)	40,96	76,26	40,40	76,26
Heavy Fuel Oil (High Sulphur)	40,96	76,26	40,40	76,26
Gas oil	42,78	74,29	42,15	74,16
Gas/Diesel Oil	42,59	74,57	42,63	74,42
Carbon Monoxide	12,63**	155,20	12,63**	155,20
Natural Gas	35,41***	56,18	35,42***	56,17
Municipal and Industrial Waste	14,72	90,49	11,90	99,29
Industrial Waste	21,70	94,83	23,33	86,84
Waste Oils	42,70	73,58	42,63	73,47
Waste Tyres	25,83	83,90	25,83	83,90
Peat	14,02	96,85	14,02	96,85
Gas biomass	27,48**		25,17**	
Wood	10,63		10,39	
Wood Waste	10,15		10,87	
Fuelwood	12,30		12,29	
Other Solid Biomass	11,56		11,30	
Sulphite Lyes	9,47		8,92	

* Emission factors for biomass are equal to zero only if Directive 2003/87/EC is in force

** Net calorific values in units of GJ/1,000 m³

*** SPP – Distribution, a.s., Year 2024 https://www.spp-distribucia.sk/wp-content/uploads/2024/02/Kvalita_ZP_emisny_faktor_sk_2024.pdf

Table 2: Average values of emission factors and calorific values of selected fuels for Slovakia used in the greenhouse gas energy balance, determined by the Statistical Office of the Slovak Republic using the top-down methodology

YEAR	2023		2024	
	NCV GJ/t	EF t CO ₂ /TJ	NCV GJ/t	EF t CO ₂ /TJ
Crude oil	42,00	73,35	42,00	73,35
Gasoline	41,98	64,25	42,04	64,25
Motor gasoline	43,92	69,33	43,93	69,33
Jet kerosene	43,30	71,55	43,30	71,55
Other kerosene	43,50	71,95	43,50	71,95
Diesel oil	42,07	74,15	42,06	74,15
Residual fuel oil	40,71	76,26	40,40	76,26
Liquefied petroleum gases (LPG)	46,00	63,15	46,00	63,15
Naphtha	44,00	73,35	44,00	73,35
Bitumen	40,74	80,76	40,59	80,76
Lubricants	41,68	73,35	41,81	73,35
Petroleum coke	34,43	96,02	34,52	96,02
Other Oil	42,28	73,35	42,29	73,35
Anthracite	25,76	99,54	26,76	99,54
Coking Coal	29,08	94,14	29,47	94,14
Other Bituminous Coal	27,32	95,18	27,11	95,18
Lignite	11,49	98,60	19,69	98,60
Brown coal briquettes (BKB)	21,00	97,57	21,00	97,57
Coke oven/gas coke	28,16	109,27	28,30	109,27
Coal tar	33,49	80,76	33,49	80,76
Natural gas	35,33**	56,18	35,33**	56,18
Solid biofuels	10,59	101,16	11,00	101,16
Liquid biofuels	33,50	73,33	33,50	73,33
Gas biomass	19,69**	84,41	19,69**	84,41

Table 3: Average values of emission factors and calorific values of selected fuels for Slovakia used in the greenhouse gas energy balance for sectors outside the scope of the EU ETS Directive

YEAR	2024									
	FUEL NAME	FUEL TYPE	CRF 1.A.3.b ROAD TRANSPORT		CRF 1.A.4.a a CRF 1.A.4.b FUEL COMBUSTION IN COMMERCIAL/INSTITUTIONAL AND RESIDENTIAL BUILDINGS		CRF 1.A.1 ENERGY INDUSTRIES		CRF 1.A.2 MANUFACTURING INDUSTRIES AND CONSTRUCTION	
			NCV GJ/t	EF t CO ₂ /TJ	NCV GJ/t	EF t CO ₂ /TJ	NCV GJ/t	EF t CO ₂ /TJ	NCV GJ/t	EF t CO ₂ /TJ
Motor Gasoline	KN 2710 12 31 KN 2710 12 41 KN 2710 12 45 KN 2710 12 49	45,73	69,79	45,73	69,79	45,73	69,79	45,73	69,79	
Gas/Diesel Oil	KN 2710 19 43 - KN 2710 19 48 KN 2710 20 11 - KN 2710 20 19	42,21	74,20	42,21	74,20	42,21	74,20	42,21	74,20	
Other kerosene	KN 2710 19 25	43,00	72,75	43,00	72,75	43,00	72,75	43,00	72,75	
Jet kerosene	KN 2710 19 21	43,30	69,32	43,30	69,32	43,30	69,32	43,30	69,32	
Liquefied Petroleum Gases	KN 2711 12 11 - KN 2711 19 00	46,00	65,44	46,00	65,44	46,00	65,44	46,00	65,44	
Natural gas	KN 2711 11 00 KN 2711 21 00			48,17	56,17	48,17	56,17	48,17	56,17	
Other Bituminous Coal	KN 2701			28,85	94,48	23,84	98,58	27,55	97,34	
Lignite	KN 2702			17,99	98,02	17,99	98,02	16,63	98,00	
Coke	KN 2704			27,48	106,51	27,48	106,51	28,18	108,30	
Heavy Fuel Oil	KN 2710 19 62 - KN 2710 19 68 KN 2710 20 31 - KN 2710 20 39			40,40	76,30	40,96	76,27	42,53	69,96	
Diesel Oil				42,62	74,53	42,62	74,62	42,76	73,99	
Electricity		As reported by Commission Delegated Regulation (EU) 2023/1185 https://eur-lex.europa.eu/legal-content/SK/TXT/PDF/?uri=CELEX:32023R1185 – 45.6 g CO ₂ eq./MJ, which is 164.16 g CO ₂ eq./kWh								