

Barloworld Emissions and Energy Conversion Factors 2020

These factors have been updated in the 2016 financial period and have been applied retrospectively to the comparative periods.

Emissions (tCO₂e) conversion factors

Region	Diesel (tCO ₂ e/GJ)	Petrol (tCO ₂ e/GJ)	Heavy Oil (tCO ₂ e/GJ)	LPG (tCO ₂ e/GJ)	CNG/LNG (tCO ₂ e/GJ)	Electricity (tCO ₂ e/MWh)	Source Reference
Russia	0.06987308	0.06673419	0.07443739	0.05963333	0.05123162	0.35047	DEFRA 2015
Mongolia	0.0743466	0.0710466	0.0695466	0.0776466	0.0631526	0.0561526	IPCC 2006
UK	0.06987308	0.06673419	0.07443739	0.05963333	0.05123162	0.46219	DEFRA 2015
Middle East & Asia	0.06987308	0.06673419	0.07443739	0.05963333	0.05123162	0.66945	DEFRA 2015
Rest of Africa	0.06987308	0.06673419	0.07443739	0.05963333	0.05123162	0.58198	DEFRA 2015
South Africa	0.06987308	0.06673419	0.07443739	0.05963333	0.05123162	1.03	DEFRA 2015; Eskom 2015

Energy (GJ) conversion factors

Region	Diesel (GJ/litre)	Petrol (GJ/litre)	Heavy Oil (GJ/litre)	LPG (GJ/tonne)	CNG/LNG (GJ/m ³)	Electricity (GJ/MWh)	Source Reference
Russia	0.03600202	0.03273728	0.04013797	45.95552457	35.71778841	3.6	DEFRA 2015
Mongolia	0.03607383	0.02082683	0.03238304	0.03984221	0.04730000	0.03580350	IPCC 2006, CDM Standardized Baseline for Mongolia
UK	0.03600202	0.03273728	0.04013797	45.95552457	35.71778841	3.6	DEFRA 2015
Middle East & Asia	0.03607383	0.03238304	0.03984221	47.3	35.80350195	3.6	IPCC 2006
Rest of Africa	0.03607383	0.03238304	0.03984221	47.3	35.80350195	3.6	IPCC 2006
South Africa	0.0381	0.0342	0.042	46.1	38.1	3.6	SAPIA