

Emission Factors used in EI Reporting

This report details the four Emission Factors loaded into Energy Intelligence:

CO2 Factor - Carbon Dioxide

CO2e Factor - Carbon Dioxide Equivalent

CH4 Factor - Methane

N2O Factor - Nitrous Oxide

EI does not calculate the Emission Factors, they are the Factors published on the gov.uk website.

The following are used:

Electricity kWh - The consumption value is used (Electricity generated rate + T&D rate)

Gas kWh - The gross kWh value for Natural Gas

Water m3 - Water Supply value in Cubic Metres

Waste - No value entered

Diesel l - The Litres value for Diesel (average Biofuel blend)

Heat kWh - Heat and Steam values

Oil l - The Litres value for Gas Oil

Propane kg - The LPG value in tonnes/1000 is used

Steam kg - No value entered

Year: 2021

Calendar Year	Commodity	Unit	CO2 Factor	CO2e Factor	CH4 Factor	N2O Factor
2021	Water	m3				
2021	Electricity	kWh				
2021	Gas	kWh				

Year: 2020

Calendar Year	Commodity	Unit	CO2 Factor	CO2e Factor	CH4 Factor	N2O Factor
2020	Gas	kWh	0.18351	0.18385	0.00024	0.00010
2020	Electricity	kWh	0.27511	0.27730	0.00070	0.00149
2020	Water	m3	0.00000	0.34400	0.00000	0.00000

Year: 2019

Calendar Year	Commodity	Unit	CO2 Factor	CO2e Factor	CH4 Factor	N2O Factor
2019	Water	m3	0.00000	0.34400	0.00000	0.00000
2019	Electricity	kWh	0.27511	0.27730	0.00070	0.00149
2019	Gas	kWh	0.18351	0.18385	0.00024	0.00010

Year: 2018

Calendar Year	Commodity	Unit	CO2 Factor	CO2e Factor	CH4 Factor	N2O Factor
2018	Gas	kWh	0.18362	0.18396	0.00024	0.00010
2018	Electricity	kWh	0.30482	0.30720	0.00072	0.00166
2018	Water	m3	0.00000	0.34400	0.00000	0.00000

Year: 2017

Calendar Year	Commodity	Unit	CO2 Factor	CO2e Factor	CH4 Factor	N2O Factor
2017	Water	m3	0.00000	0.34400	0.00000	0.00000
2017	Gas	kWh	0.18381	0.18416	0.00026	0.00010
2017	Electricity	kWh	0.38146	0.38443	0.00068	0.00229

Year: 2016

Calendar Year	Commodity	Unit	CO2 Factor	CO2e Factor	CH4 Factor	N2O Factor
2016	Gas	kWh	0.18365	0.18400	0.00025	0.00010
2016	Electricity	kWh	0.44662	0.44932	0.00042	0.00228
2016	Water	m3	0.00000	0.34400	0.00000	0.00000