

Climate Change – Green House Gas emissions

A greenhouse gas (sometimes abbreviated to GHG) is a gas in the atmosphere which absorbs and emits radiation within the thermal infrared range - this process is the fundamental cause of the greenhouse effect and global warming.

The UK has a target under the Paris Agreement to reduce global temperature increases to less than 2 degrees Celsius by 2050 – in order to achieve this, the UK must reduce GHG emissions by 80% on a 1990 baseline.

In order to track progress, companies are required to submit their total emissions figures each year through their Annual Report return to Companies House.

Biffa Group – Green House Gas emissions table

Green House Gas Emissions Table		Unit	FY19	FY18	FY17
Scope 1 Emissions (emissions from combustion of fuel)	Methane emitted	tCO ₂ e	594,468	632,100	747,011
	Diesel fuel	tCO ₂ e	106,733	89,889	91,725
	Gas Oil	tCO ₂ e	21,178	20,746	18,933
	Biodiesel	tCO ₂ e	0	2	13
	Unleaded Petrol	tCO ₂ e	215	183	176
	Kerosene	tCO ₂ e	20	21	23
	LPG	tCO ₂ e	2	19	0
	Natural gas	tCO ₂ e	1,279	1,261	1,361
	Refrigerant gases	tCO ₂ e	32	0	0
Total Scope 1 Emissions			723,927	774,221	859,242
Scope 2 Emissions from electricity	Purchased	tCO ₂ e	20,759	24,955	24,411
	Self-supplied	tCO ₂ e	10,386	12,954	14,170
Total Scope 2 Emissions			31,145	37,909	38,581
Total Emissions			755,072	782,130	897,823
Emissions intensity ratio (CO ₂ e (t) per employee)			96.83	98.9	119.1

The methodology and systems used to produce Biffa's green house gas emissions data has been subjected to third party inspection and audit by RSK Consulting.

RSK noted that Biffa had an excellent GHG emissions reporting system resulting from the quality of its existing internal reporting arrangements and practice as well as compliance with external reporting requirements including the CRC Energy Efficiency Scheme and Energy Savings Opportunity Scheme.

In addition to collating our green house gas emissions figures, our business also captures and reports on other sustainability metrics, which are used in customer and client presentations, bids and tenders, and in the maintenance of our sustainability ratings for customers and investors.

Energy Generation	FY19	FY18	FY17
Total Generation GWh	441	476	512
Carbon benefit CO ₂ e tonnes	125	167	216

Energy & Fuel Usage	Unit	FY19	FY18	FY17
Electricity (imported)	GWh	73	71	59
Electricity (self-supplied)	GWh	37	37	34
Natural Gas	GWh	7	7	7
Water	M3 '000	245	338	316
Diesel	Litres '000	40,630	34,570	35,122
Biodiesel	Litres '000	-	122	644
Unleaded petrol	Litres '000	97	83	80
Gas Oil	Litres '000	7,129	7,024	6,384
LPG	Litres '000	1	12	0
Kerosene	Litres '000	8	8	9

Biodiversity	Unit	FY19	FY18	FY17
Landfill restored	Hectares	2.1	14.4	13.17
Number of trees planted	No.	2,389	5,875	10,543
Length of hedgerows planted	Metres	10	400	3,597

Communities	Unit	FY19	FY18	FY17
Convictions for environmental offences	No.	0	0	0
Env enforcement notices served against the Company	No.	0	0	2
Registered sites (ISO9001)*	%	33.01	-	-
Registered sites (ISO14001)	%	67.96	72.96	72.58
Registered sites (OHSAS18001)*	%	49.03	-	-

* First disclosure for FY19

For further information about our data capture systems or the details contained within this report, please contact our Environment & External Affairs team.