Gamma Carbon Emissions Summary 2022

Streamlined Energy & Carbon Reporting

Methodology

A Greenhouse Gas (GHG) assessment is undertaken annually by an accredited third party in order to quantify the GHG emissions produced from Gamma's activities.

In 2021, this assessment was undertaken with a view to using the reporting year assessment period as an energy / carbon baseline for all disclosures.

The 2022 assessment, like others before it, was conducted in accordance with the reporting standards of the 'Greenhouse Gas Protocol – Corporate Accounting and Reporting Standard' (GHG Protocol, 2011).

This emissions report has been defined using the Streamlined Energy & Carbon Reporting (SECR) framework.

The third party GHG assessment for the 2022 reporting year used 76% primary data, based on energy results such as those disclosed below.

Energy (kWh)

Scope	Aspect	2021		2022	
		UK	Global*	UK	Global
1	Gas	198,411	175,738	181,287	371,066
2	Electricity	7,339,515	2,008,130	5,303,827	746,299

*Global excludes UK / Non-UK emissions

Emissions (tCO2e)

Scope	Aspect	2021		2022	
		UK	Global	UK	Global
1	Emissions from combustion of gas	36.20	32.10	33.07	67.75
	Emissions from combustion of fuel for travel purposes	102.17	250.13	48.70	207.60
	Emissions from diesel consumed	13.88	0.00	7.98	0.00
	Refrigerant gas emissions	4.15	1.25	168.56	39.54
Total Scope 1 Emissions		156.40	283.48	258.31	314.89
2	Emissions from purchased electricity (location)	1,905.70	537.50	1,025.65	244.75
	Emissions from purchased electricity (market)	665.38	327.72	100.50	43.40
Total Scope 2 Emissions (location)		1,905.70	537.50	1,025.65	244.75
Total Scope 1 & 2 Emissions (location)		2,062.10	820.98	1,283.96	559.64

Intensity Ratio	2021	2022
Total floor area (m2)	13,041	15,973
Intensity Ratio Scope 1 & 2 Emissions (location) (tCO2e/m2)	0.221	0.116

In addition to these results, it is important for Gamma to monitor the breakdown of its GHG Scope 1 & 2 emissions due to the Global Warming Potential (GWP) of constituent gases in tonnes of carbon equivalent (tCO2e) calculations. In 2022, results are as follows:

GHG breakdown (tonnes CO2e)									
Scope	Aspect	CO2		CH4		N2O		HFCs	
GWP		1		25		298		Variable	
		UK	Global	UK	Global	UK	Global	UK	Global
1	Gas	33.00	67.62	0.05	0.09	0.02	0.04	0.00	0.00
	Vehicles	48.11	205.09	0.04	0.18	0.55	0.33	0.00	0.00
	Diesel	7.86	0.00	0.01	0.00	0.11	0.00	0.00	0.00
	F-Gas	0.00	0.00	0.00	0.00	0.00	0.00	168.6	39.5
2	Electricity	1,014.14	242.00	4.25	1.01	7.26	1.74	0.00	0.00
	Total	1,103.11	514.71	4.35	1.28	7.94	2.11	168.6	39.5
		1,617.82		5.63		10.05		208.10	

The following table shows emissions by source category for the 2022 reporting year, with selected indirect emissions (Scope 3) included:

Scope	Aspect	tCO2e
Scope 1	Direct emissions from owned, leased or directly controlled stationary sources that use fossil fuels or emit fugitive gases	316.9
	Direct emissions from owned, leased or directly controlled mobile sources	256.3
Scope 2	Location based emissions from the generation of purchased electricity	1270.4
	Market based emissions from the generation of purchased electricity	143.9
Scope 3 (selected)	Water	0.5
	Capital Goods	167.2
	Upstream emissions from purchased electricity and fuels	418.8
	Transmissions and Distribution (T&D) losses	118.2
	Waste	1.5
	Wastewater	0.9
	Business Travel	393.0
	Hotel Accommodation	9.4
	Employee Commuting	564.1
	Homeworking	295.2
Total (using Scope 2 location figure)		3,812.4
Total (using Scope 2 market figure)		2,685.9

These Scope 3 emissions sources have been selected in this report as they are consistent with what was captured for the 2021 Gamma Emissions Summary.

Having included indirect emissions, the following GHG emissions profiles were recorded at group level (location method if not specified).

Aspect / Scope	tCO2e (2022)	tCO2e (2021)	YoY Change (%)
Scope 1	573.2	439.9	+30.30
Scope 2 (location)	1,270.4	2,443.3	-48.00
Scope 2 (market)	143.9	993.1	-85.51
Scope 3 (selected)	1,968.8	1,610.2	+22.27

Discussion

In 2022, relative to the 2021 baseline, Gamma's Scope 1 & 2 emissions fell by 36.07%, accounted for at 1,843 tCO2e.

This fall has been observed with a degree of consistency both in the UK (-33.85%) and European business (-41.66%).

A subsequent energy review will analyse these trends in further detail; however two factors can immediately be seen to drive this trend:

1. Less energy consumption for electricity, both in the UK and Europe.

2. A reduction in emissions factors used to convert primary energy data into emissions results

With respect to selected Scope 3 emissions, a +22.27% increase has been noted due to an increase in the emissions associated with the purchase of capital goods across the group (e.g. laptops, monitors, printers), business travel and employee commuting.

An increase in business travel and employee commuting (+ 46.28%) was largely expected as travel restrictions, enforced as a result of the pandemic, eased. Conversely, a reduction in homeworking emissions of over 80tCO2e (-22.07%) was noted.

Energy Measures Taken

In 2022, Gamma, implemented the following, which contributed to a reduction in Scope 1 & 2 intensity:

- Ongoing replacement of Scope 1 vehicles from fossil fuel to electric and or hybrid. In 2022, over 75% of Gamma's UK vehicle mileage was undertaken by hybrid/electric vehicles.

- Continuation of facility reviews which includes consolidation proposals and consideration of moves to more sustainable buildings, allowing us to improve energy efficiency in our day-to-day operations.

- Continuing to implement responsible and ethical procurement decisions. An increase in the proportion of sites in the group consuming renewable energy in 2022 (see market-based results), demonstrates our commitment to operate a group network supplied by 100% renewables in the future.