

Greenhouse gas emissions statement

Xaar plc has calculated its global greenhouse gas (GHG) emissions statement using an operational control consolidation approach.

Scope 1 emissions

Scope 1 emissions occur from sources that are owned or where Xaar plc has operational control. This includes direct emissions from gas combustion in our buildings and fuel used in leased Company vehicles. Actual and estimated gas consumption data has been collected from each of the leased properties under the control of the Xaar Group, from data sources including direct meter readings, meter readings from suppliers included on invoices and estimations where required based on available information from property management suppliers and other sources. Actual mileage data has been collected from the leased Company vehicle fleet.

Scope 2 emissions

Scope 2 refers to indirect emissions from the consumption of purchased electricity (also including any purchased heat, steam or cooling) from facilities owned or under the operational control of Xaar plc. Actual and estimated data has been collected from each of the leased properties under the control of the Xaar Group, from data sources including direct meter readings, meter readings from suppliers included on invoices and estimations where required based on available information from property management suppliers and other sources.

Scope 3 emissions

Scope 3 emissions are all indirect emissions – not included in Scope 2 – that occur in the value chain of the reporting company, including both upstream and downstream emissions. Scope 3 CO₂ emissions currently represent estimated CO₂ emissions from travel and estimates from employee commuting. As the Group's sustainability programmes develop we will capture more of our Scope 3 emissions and aim to collaborate with the supply chain to reduce them and will disclose progress in our Annual Report. Please refer to page 30 for actions that Xaar is undertaking to offset its carbon emissions.

Assessment parameters	
Baseline year	1 January 2013 to 31 December 2013
Consolidated approach	Operational control
Boundary summary	All entities and all facilities under operational control included subject to the materiality threshold applied
Consistency with the financial statements	The only variation is that leased properties deemed to be under operational control have been included in Scope 1 and 2 emissions
Materiality threshold	Materiality has been set at Group level at 5%*
Assessment methodology	Greenhouse Gas Protocol and ISO 14064-1 (2006)
Intensity ratio	Emissions per £'000 turnover exc. royalties (2021: £58.9 million)

* The total of any excluded emission sources is estimated to be less than 5% of Xaar plc's total reported emissions.

Greenhouse gas emissions

		2021		2020 Total	Renewable	Non-renewable	2020 Total
		Renewable*	Non-renewable				
Global energy use	KWh	10,610,069	752,331	11,362,400	2,351,508	7,764,206	10,115,714
	%	93.4%	6.6%		23.2%	76.7%	
UK	KWh	10,205,766	472,854	10,678,620	2,351,508	7,315,782	9,667,290
Non-UK	KWh	404,303	279,477	683,780	–	448,424	448,424
Absolute values							
Scope 1	tCO ₂ e	–	98	98	–	75	75
Scope 2	tCO ₂ e	–	116	116	–	1,741	1,741
Scope 3	tCO ₂ e	–	150	150	–	361	361
Total	tCO ₂ e	–	364	364	–	2,177	2,177
– Scope 1 & 2 emissions of which UK	tCO ₂ e	–	198	198	–	1,706	1,706
Normalised values							
Scope 1	tCO ₂ e/£'000	–	165	165	–	157	157
Scope 2	tCO ₂ e/£'000	–	198	198	–	3,655	3,655
Scope 3	tCO ₂ e/£'000	–	254	254	–	618	618
Total	tCO ₂ e/£'000	–	617	617	–	4,430	4,430

* UK energy certified by EON, in the form of Guarantees of Origin from renewable wind sources. US energy (Green Mountain) 100% carbon free, 68% renewable (balance being nuclear).

Historic greenhouse gas emissions

	2019	2018	2017	2016	2015	2014
Global energy use KWh	10,573,689	11,270,047	11,506,598	12,474,406	14,187,311	14,058,636
Scope 1 – tCO₂e	108.3	124.8	147.7	167.0	162.2	162.0
Scope 2 – tCO₂e	2,622.8	3,128.1	4,088.0	4,432.0	4,475.2	6,263.0
Total – tCO₂e	2,731.1	3,252.9	4,235.7	4,599.0	4,637.4	6,425.0