

2025 environmental data – methodologies and supplementary data

Greenhouse Gas (GHG)

Our Scope 1 and 2 GHG emissions are calculated with reference to the GHG Protocol Corporate Standard (2015 revision). We report in tonnes of CO₂ equivalent (CO₂e) and include all gases in the GHG Protocol. We do not include any purchased offsets in our GHG inventory.

We take an operational control approach to defining our GHG and energy organisational boundary. This approach is consistent with our financial statements. This means our equity ownerships are excluded from our combined Scope 1 and 2 footprint but are included in Scope 3 Category 15 (Investments). Data from new facilities are included from the date we take control and the facility becomes operational.

Scope 1: Our Scope 1 GHG emissions include emissions from combustion of fuels for energy, heat and vehicles, process emissions from our chemical manufacturing, refrigerants and land use change at our mines. Fuels and refrigerants use consumption invoices from suppliers wherever possible, and estimates from the local teams if invoices are not available in a timely manner for reporting deadlines. We use UK Government emission factors for Scope 1 fuels globally, and these factors include the Global Warming Potential (GWP) of CH₄ and N₂O. The GWP used for HFCs is specific to the actual HFC consumed. All GWP are from IPCC AR6 information.

Biomass: CO₂ from biomass is reported outside of the Scopes. CH₄ and N₂O emissions from biomass are included in our Scope 1. We assume all fuels are 100% fossil unless expressly identified as biofuel.

Scope 2: Our Scope 2 emissions include all emissions caused by creating the electricity and steam, using invoices issued by our suppliers. We use IEA emissions factors for location-based Scope 2 emissions, except in the UK where we use UK Government factors. Scope 2 (market-based) emissions include power purchases associated with a Renewable Energy Certificate (REC) or Guarantee of Origin (GO). We use residual mix factors from the Association of Issuing Bodies (AIB) for European sites without an REC or GO, and use location-based factors for remaining sites market-based emissions.

Water

Water withdrawal data uses either invoices from our water suppliers or our own meter readings. Where invoices are not available, for example at some of our offices, estimates from the local teams are used.

Waste

Waste data uses invoices from our waste handling suppliers. Where invoices are not available, estimates from the local teams are used.

Approach to estimation

Where estimation is necessary and invoices exist from a prior data period, this prior period is used to estimate the KPI, adjusting for major changes in the site situation (e.g. a change in office headcount or production activity). Where there is no specific consumption data from a prior period (for example, waste from some of our offices), the local team estimate based on known facts such as headcount and local waste treatment statistics.

Supplementary environmental data 2025^{1,2}

Scope 1 constituent gases

	CO ₂ e	CO ₂	CH ₄	N ₂ O	HFC	PFC	SF ₆	NF ₃
Direct GHG emissions (t CO₂e)	36,428	35,829	124	32	443	0	0	0
Direct emissions (tonnes of gas)		35,829	4.6	0.1	0.20	0	0	0

Greenhouse gas (Scope 1 and Scope 2) by region

Tonnes CO ₂ e	Global	UK	Europe	Asia	Americas
Scope 1	36,428	7,410	965	8,627	19,425
Scope 2 market-based	19,958	13	1,933	17,226	786
Scope 2 location-based	30,449	1,459	1,291	18,232	9,467
Total market-based	56,385	7,423	2,898	25,853	20,211
Total location-based	66,876	8,870	2,256	26,859	28,892

Energy from fuel type by region

kWh	Global	UK	Europe	Asia	Americas
Natural Gas	189,856,316	40,434,808	2,802,896	43,122,627	103,495,984
Diesel	1,998,218	0	107,733	1,760,291	130,194
Petrol	459,520	0	191,516	133,963	134,040
LPG	531,382	0	0	0	531,382
Propane	146,845	57,858	0	0	88,897
Biodiesel	1,797,608	0	0	0	1,797,608
Biomass	4,112,000	0	0	4,112,000	0

Purchased energy by region

kWh	Global	UK	Europe	Asia	Americas
Total purchased energy	71,578,793	8,243,927	5,899,199	26,872,020	30,563,647
Total steam	8,040,622	0	4,254,789	0	3,785,833
Total electricity	63,538,171	8,243,927	1,644,410	26,872,020	26,777,814
- from renewables	36,486,903	8,214,210	0	2,109,763	26,162,930

Water withdrawals by region

m ³	Global	UK	Europe	Asia	Americas
Total water withdrawal	1,280,478	332,662	230,820	254,465	462,531
Water withdrawal by source:					
- Ground	319,690	225,153	0	0	94,537
- Surface	121,919	0	0	121,919	0
- Third Party	838,869	107,509	230,820	132,546	367,994

Waste sent for third party treatment by region

Tonnes	Global	UK	Europe	Asia	Americas
Hazardous waste landfilled	350	0	0	349	1
Hazardous waste incinerated	1,071	205	0	730	136
Hazardous waste recycled	118	0	0	0	118
Total hazardous waste	1,539	205	0	1,079	255
Non-hazardous waste landfilled	11,372	6,171	22	46	5,134
Non-hazardous waste incinerated	51	0	21	12	18
Non-hazardous waste recycled	5,483	0	13	5,174	295
Total non-hazardous waste	16,906	6,171	55	5,233	5,447
Total waste	18,445	6,376	56	6,312	5,702

- 1) While Global data has been verified to a reasonable level by a third party (TÜV SÜD – see their verification statement on our website), totals for individual regions have not expressly been verified by them.
- 2) Totals may not perfectly add due to rounding.