

Environmental data 2022

	2019	2020	2021	2022
Energy				
Natural gas purchased (kWh)	1,850,670,086	1,872,891,848	1,744,413,788	1,655,042,510
Electricity used (kWh)	1,264,156,513	1,102,263,485	1,007,734,514	969,778,129
Purchased renewable electricity (kWh)	23,032,773	486,701,860	630,758,084	697,139,843
Purchased non-renewable electricity (kWh)	1,222,734,901	605,319,865	371,519,085	262,907,552
On-site generated renewable electricity (kWh)	22,264,745	19,154,481	13,007,098	17,613,230
Exported electricity (kWh)	3,875,906	8,912,721	7,549,753	7,882,496
Coal (kWh)	0	0	0	0
Other fossil fuels (kWh)	61,852,878	48,849,495	58,097,994	80,830,945
Renewable heat (kWh)	7,157,208	8,526,246	8,146,047	12,970,211
Purchased heating and cooling (kWh)	56,537,360	52,465,717	52,154,774	40,523,527
Total energy for operations (kWh)	3,240,374,045	3,084,996,791	2,870,547,117	2,759,145,326
% renewable electricity	4%	46%	63%	73%
Carbon: Scope 1 and 2 emissions¹				
On-site fuel use (metric tonnes CO ₂ e)	354,532	355,092	333,366	320,481
Sales force vehicles (metric tonnes CO ₂ e)	110,925	60,275	52,404	50,655
Propellant emissions during manufacture of inhalers (metric tonnes CO ₂ e)	219,927	275,295	236,749	242,634
On-site waste or wastewater treatment (metric tonnes CO ₂ e)	71	37	36	88
Refrigerant gas losses (metric tonnes CO ₂ e)	26,614	19,830	10,745	12,560
Total scope 1 emissions (metric tonnes CO₂e)	712,069	710,529	633,300	626,418
Electricity (market-based emissions) (metric tonnes CO ₂ e)	341,786	162,816	124,712	84,450
Purchased heating and cooling (metric tonnes CO ₂ e)	6,423	6,039	5,987	3,913
Total scope 2 market-based emissions (metric tonnes CO₂e)	348,209	168,854	130,698	88,368
Total scope 2 location-based emissions (metric tonnes CO₂e)	356,746	309,003	284,710	264,677
Total scope 1 and 2 market-based emissions (metric tonnes CO₂e)	1,060,278	879,383	763,998	714,786
Carbon: Scope 3 emissions²				
Purchased goods and services (metric tonnes CO ₂ e)	–	3,267,365	2,724,653	–
Capital goods (metric tonnes CO ₂ e)	–	162,372	154,433	–
Fuel and energy-related activities (metric tonnes CO ₂ e)	–	88,797	84,200	–
Transportation and distribution (upstream) (metric tonnes CO ₂ e)	–	267,099	189,168	–
Waste generated in operations (metric tonnes CO ₂ e)	–	20,033	63,545	–
Business travel (metric tonnes CO ₂ e)	–	41,748	49,527	–
Employee commuting (metric tonnes CO ₂ e)	–	36,856	47,787	–
Leased assets (upstream) (metric tonnes CO ₂ e)	–	0	0	–
Transportation and distribution (downstream) (metric tonnes CO ₂ e)	–	135,185	99,327	–
Processing of sold products (metric tonnes CO ₂ e)	–	0	0	–
Use of sold products (metric tonnes CO ₂ e)	–	5,836,160	5,119,566	–
– Emissions from use of propellant-based inhalers by patients (metric tonnes CO ₂ e)	5,382,038	5,631,406	5,038,500	5,428,814
End of life (metric tonnes CO ₂ e)	–	23,533	50,893	–
Leased assets (downstream) (metric tonnes CO ₂ e)	–	0	0	–
Franchises (metric tonnes CO ₂ e)	–	0	0	–
Investments (metric tonnes CO ₂ e)	–	69,891	41,334	–
Total scope 3 emissions (metric tonnes CO₂e)	–	9,949,039	8,624,434	–¹

1 Scope 1 and 2 emissions data has been assured to the metric tonne, for which base data is available on [gsk.com](https://www.gsk.com).

2 Other than propellant emissions data (which is collected through our internal systems); 2019 scope 3 emissions are not reported as we were unable to split our previous Consumer Healthcare business data, and we will not have an accurate picture of 2022 scope 3 emissions until later in the year.

Environment data continued

	2019	2020	2021	2022
Scope 1, 2 and 3 emissions				
Total scope 1, 2 and 3 emissions (metric tonnes CO ₂ e)	–	10,828,422	9,388,432	–
Ozone-depleting substances				
ODP inventory of CFC and HCFC in equipment (kg of CFC11e)	452	307	277	6
ODP calculated releases of CFC11e (kg of CFC11e)	12	8	8	0
Water use²				
Municipal (m ³)	7,523,660	6,931,687	5,760,951	5,638,444
Ground water (m ³)	2,522,648	2,662,335	2,042,056	1,729,324
Tankers (m ³)	175,142	149,705	144,062	149,082
Total water use (m³)	10,221,449	9,743,727	7,947,069	7,516,848
Water use at high water risk sites (m ³)	407,836	342,781	324,772	322,275
Water in from rainwater (m ³)	229,967	315,367	173,784	227,376
Water in from recycled sources (m ³)	170,851	227,089	288,432	239,874
Water discharge				
Wastewater to municipal sewer (m ³)	4,810,272	5,702,254	3,960,659	3,970,140
Wastewater to surface water (m ³)	2,831,792	2,812,097	1,854,253	1,820,302
Wastewater to land (m ³)	130,542	110,278	109,071	112,976
Wastewater to other (m ³)	201,091	12,368	0	0
Total wastewater discharged (m³)	7,973,697	8,636,998	5,926,026	5,905,274
Waste and materials¹				
Total waste recovered by a circular route (thousand kg)	–	–	22,737,956	22,473,250
Total waste disposed via a non-circular route (thousand kg)	–	–	40,370,201	34,732,181
Total waste and materials generated (thousand kg)	65,352,757	62,965,745	63,108,157	57,205,431
% circular waste	–	–	36%	39%
Total hazardous waste recovered by a circular route (thousand kg)	–	–	3,580,019	3,577,518
Total hazardous waste disposed via a non-circular route (thousand kg)	–	–	24,546,360	22,542,136
Total hazardous waste (thousand kg)	28,191,399	25,698,781	28,117,397	26,119,654
Total non-hazardous waste recovered via a circular route (thousand kg)	–	–	19,166,919	18,895,732
Total non-hazardous waste disposed via a non-circular route (thousand kg)	–	–	15,823,841	12,190,044
Total non-hazardous waste (thousand kg)	37,161,358	37,266,966	34,990,760	31,085,776
Total hazardous waste incinerated (thousand kg)	24,986,901	21,939,034	20,237,950	19,414,858
Total non-hazardous waste incinerated (thousand kg)	14,684,635	14,058,872	13,424,334	8,816,222
Total waste incinerated (thousand kg)	39,671,536	35,997,906	33,662,284	28,231,080
Total hazardous waste to landfill (thousand kg)	59,219	7,760	30,066	16,260
Total non-hazardous waste to landfill (thousand kg)	327,620	61,973	37,712	63,720
Total waste to landfill (thousand kg)	386,839	69,733	67,778	79,980

¹ 2019-20 data was not recorded with the same breakdown as 2021-22 data, so we are unable to report certain metrics for these years.