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 emissions[1]				
On-site fuel use (metric tonnes CO_2e)	354,532	355,092	333,366	**320,481**
Sales force vehicles (metric tonnes CO_2e)	110,925	60,275	52,404	**50,655**
Propellant emissions during manufacture of inhalers (metric tonnes CO_2e)	219,927	275,295	236,749	**242,634**
On-site waste or wastewater treatment (metric tonnes CO_2e)	71	37	36	**88**
Refrigerant gas losses (metric tonnes CO_2e)	26,614	19,830	10,745	**12,560**
Total scope 1 emissions (metric tonnes CO_2e)	**712,069**	**710,529**	**633,300**	**626,418**
Electricity (market-based emissions) (metric tonnes CO_2e)	341,786	162,816	124,712	**84,450**
Purchased heating and cooling (metric tonnes CO_2e)	6,423	6,039	5,987	**3,913**
Total scope 2 market-based emissions (metric tonnes CO_2e)	**348,209**	**168,854**	**130,698**	**88,368**
Total scope 2 location-based emissions (metric tonnes CO_2e)	**356,746**	**309,003**	**284,710**	**264,677**
Total scope 1 and 2 market-based emissions (metric tonnes CO_2e)	**1,060,278**	**879,383**	**763,998**	**714,786**
Carbon: Scope 3 emissions[2]				
Purchased goods and services (metric tonnes CO_2e)	–	3,267,365	2,724,653	**–**
Capital goods (metric tonnes CO_2e)	–	162,372	154,433	**–**
Fuel and energy-related activities (metric tonnes CO_2e)	–	88,797	84,200	**–**
Transportation and distribution (upstream) (metric tonnes CO_2e)	–	267,099	189,168	**–**
Waste generated in operations (metric tonnes CO_2e)	–	20,033	63,545	**–**
Business travel (metric tonnes CO_2e)	–	41,748	49,527	**–**
Employee commuting (metric tonnes CO_2e)	–	36,856	47,787	**–**
Leased assets (upstream) (metric tonnes CO_2e)	–	0	0	**–**
Transportation and distribution (downstream) (metric tonnes CO_2e)	–	135,185	99,327	**–**
Processing of sold products (metric tonnes CO_2e)	–	0	0	**–**
Use of sold products (metric tonnes CO_2e)	–	5,836,160	5,119,566	**–**
– Emissions from use of propellant-based inhalers by patients (metric tonnes CO_2e)	5,382,038	5,631,406	5,038,500	**5,428,814**
End of life (metric tonnes CO_2e)	–	23,533	50,893	**–**
Leased assets (downstream) (metric tonnes CO_2e)	–	0	0	**–**
Franchises (metric tonnes CO_2e)	–	0	0	**–**
Investments (metric tonnes CO_2e)	–	69,891	41,334	**–**
Total scope 3 emissions (metric tonnes CO_2e)	**–**	**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.

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_2e)	–	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 use[2]				
Municipal (m³)	7,523,660	6,931,687	5,760,951	5,638,444
Ground water (m³)	2,522,648	2,662,335	2,042,056	1,729,324
Tankers (m³)	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 (m³)	407,836	342,781	324,772	322,275
Water in from rainwater (m³)	229,967	315,367	173,784	227,376
Water in from recycled sources (m³)	170,851	227,089	288,432	239,874
Water discharge				
Wastewater to municipal sewer (m³)	4,810,272	5,702,254	3,960,659	3,970,140
Wastewater to surface water (m³)	2,831,792	2,812,097	1,854,253	1,820,302
Wastewater to land (m³)	130,542	110,278	109,071	112,976
Wastewater to other (m³)	201,091	12,368	0	0
Total wastewater discharged (m³)	7,973,697	8,636,998	5,926,026	5,905,274
Waste and materials[1]				
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
EHS Audits				
Number of GSK internal audits	–	–	–	24
Number of GSK sites independently certified to ISO 14001 or equivalent	–	–	–	7

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.