

Environmental data 2023

	2020	2021	2022	2023
Energy				
Natural gas purchased (kWh)	1,872,891,848	1,744,413,788	1,655,042,510	1,566,621,859
Electricity used (kWh)	1,102,263,485	1,007,734,514	969,778,129	958,532,361
Purchased renewable electricity (kWh)	486,701,860	630,758,084	697,139,843	782,211,424
Purchased non-renewable electricity (kWh)	605,319,865	371,519,085	262,907,552	163,044,097
Onsite renewably generated electricity (kWh)	19,154,481	13,007,098	17,613,230	17,052,846
Exported electricity (kWh)	8,912,721	7,549,753	7,882,496	3,776,006
Coal (kWh)	0	0	0	0
Other fossil fuels (kWh)	48,849,495	58,097,994	80,830,945	59,546,820
Renewable heat (kWh)	8,526,246	8,146,047	12,970,211	11,716,789
Purchased heating and cooling (kWh)	52,465,717	52,154,774	40,523,527	39,186,069
Total energy for operations (kWh)	3,084,996,791	2,870,547,117	2,759,145,326	2,635,603,897
% renewable electricity	46%	63%	73%	83%
Carbon: Scope 1 and 2 emissions				
On-site fuel use (metric tonnes CO ₂ e)	355,092	333,366	320,481	301,402
Sales force vehicles (metric tonnes CO ₂ e)	60,275	52,404	50,655	45,854
Propellant emissions during manufacture of inhalers (metric tonnes CO ₂ e)	275,295	236,749	242,634	220,066
On-site waste or wastewater treatment (metric tonnes CO ₂ e)	37	36	88	108
Refrigerant gas losses (metric tonnes CO ₂ e)	19,830	10,745	12,560	13,445
Total scope 1 emissions (metric tonnes CO₂e)	710,529	633,300	626,418	580,875
Electricity (market-based emissions) (metric tonnes CO ₂ e)	162,816	124,712	84,450	59,940
Purchased heating and cooling (metric tonnes CO ₂ e)	6,039	5,987	3,913	3,824
Total scope 2 market-based emissions (metric tonnes CO₂e)	168,854	130,698	88,368	63,764
Total scope 2 location-based emissions (metric tonnes CO₂e)	309,003	284,710	264,677	239,927
Total scope 1 and 2 market-based emissions (metric tonnes CO₂e)	879,383	763,998	714,786	644,639
Carbon: Scope 3 emissions¹				
Purchased goods and services (metric tonnes CO ₂ e)	3,267,365	2,724,653	2,485,295	0
Capital goods (metric tonnes CO ₂ e)	162,372	154,433	160,675	0
Fuel and energy-related activities (metric tonnes CO ₂ e)	88,797	84,200	144,734	0
Transportation and distribution (upstream) (metric tonnes CO ₂ e)	267,099	189,168	242,198	0
Waste generated in operations (metric tonnes CO ₂ e)	20,033	63,545	50,781	0
Business travel (metric tonnes CO ₂ e)	41,748	49,527	85,276	0
Employee commuting (metric tonnes CO ₂ e)	36,856	47,787	60,008	0
Leased assets (upstream) (metric tonnes CO ₂ e)	0	0	0	0
Transportation and distribution (downstream) (metric tonnes CO ₂ e)	135,185	99,327	129,822	0
Processing of sold products (metric tonnes CO ₂ e)	0	0	0	0
Use of sold products (metric tonnes CO ₂ e)	5,836,160	5,119,566	5,523,314	0
– Emissions from use of propellant-based inhalers by patients (metric tonnes CO ₂ e)	5,631,406	5,038,500	5,428,814	5,038,690
End of life (metric tonnes CO ₂ e)	23,533	50,893	46,950	0
Leased assets (downstream) (metric tonnes CO ₂ e)	0	0	0	0
Franchises (metric tonnes CO ₂ e)	0	0	0	0
Investments (metric tonnes CO ₂ e)	69,891	41,334	66,209	0
Total scope 3 emissions (metric tonnes CO₂e)	9,949,039	8,624,434	8,995,262	0

Environment data continued

	2020	2021	2022	2023
Scope 1, 2 and 3 emissions				
Total scope 1, 2 and 3 emissions (metric tonnes CO ₂ e)	10,828,422	9,388,432	9,710,048	0
Ozone-depleting substances				
ODP inventory of CFC and HCFC in equipment (kg of CFC11e)	307	277	6	5
ODP calculated releases of CFC11e (kg of CFC11e)	8	8	0	0
Water use				
Municipal (m ³)	6,931,687	5,760,951	5,638,444	5,614,136
Ground water (m ³)	2,662,335	2,042,056	1,729,324	1,642,870
Tankers (m ³)	149,705	144,062	149,082	149,919
Total water use (m³)	9,743,727	7,947,069	7,516,848	7,406,925
Water use at high water risk sites (m ³)	342,781	324,772	322,275	303,626
Water in from rainwater (m ³)	315,367	173,784	227,376	216,376
Water in from recycled sources (m ³)	227,089	288,432	239,874	298,237
Water discharge				
Wastewater to municipal sewer (m ³)	5,702,254	3,960,659	3,970,140	3,867,238
Wastewater to surface water (m ³)	2,812,097	1,854,253	1,820,302	2,186,337
Wastewater to land (m ³)	110,278	109,071	112,976	94,692
Wastewater to other (m ³)	12,368	0	0	0
Total wastewater discharged (m³)	8,636,998	5,926,026	5,905,274	6,149,405
Waste and materials				
Total waste recovered by a circular route (kg)	–	21,897,762	21,750,903	26,151,993
Total waste disposed via a non-circular route (thousand kg)	–	33,945,743	28,472,764	23,497,589
Total waste and materials generated (kg)	62,965,745	55,843,506	50,223,667	49,649,582
Waste and materials not reported under new methodology ¹ (kg)	–	7,264,651	6,981,764	–
Total waste and materials generated as previously stated (kg)	–	63,108,157	57,205,431	–
% circular waste	–	39%	43%	53%
Total hazardous waste recovered by a circular route (kg)	–	2,907,913	2,865,196	3,643,888
Total hazardous waste disposed via a non-circular route (kg)	–	18,307,745	16,340,753	14,648,299
Total hazardous waste (kg)	25,698,781	21,215,658	19,205,949	18,292,187
Total non-hazardous waste recovered via a circular route (kg)	–	18,989,850	18,885,707	22,508,105
Total non-hazardous waste disposed via a non-circular route (kg)	–	15,637,998	12,132,011	8,849,290
Total non-hazardous waste (kg)	37,266,966	34,627,848	31,017,718	31,357,395
Total hazardous waste incinerated (kg)	21,939,034	13,999,336	13,222,716	12,952,298
Total non-hazardous waste incinerated (kg)	14,058,872	13,238,491	8,539,344	8,369,711
Total waste incinerated (kg)	35,997,906	27,237,827	21,762,060	21,322,009
Total hazardous waste to landfill (kg)	7,760	30,066	39,919	178,320
Total non-hazardous waste to landfill (kg)	61,973	37,712	55,820	4,980
Total waste to landfill (kg)	69,733	67,778	95,739	183,300
EHS Audits				
Number of GSK internal audits	0	0	24	20
Number of GSK sites independently certified to ISO 14001 or equivalent	0	0	7	9

¹ 2021 and 2022 restated as methodology changed in 2023 to only include waste and materials leaving our sites.