



GSK Responsible Business Supplement 2016

Our Planet: Detailed Data

	2010	2014	2015	2016 ¹
Energy million GJ				
Total Energy	18.24	16.55	16.27	16.36
Natural Gas	8.67	8.26	8.18	8.37
Coal	0.78	0.38	0.32	0.29
Electricity	7.85	6.75	6.50	6.41
Steam/Hot Water/Compressed Air/Chilled water	0.15	0.11	0.20	0.23
Other Fuels	0.79	0.49	0.45	0.37
Energy from biomass		0.56	0.57	0.58
Energy from solar photovoltaic (PV) cells		0.01	0.01	0.01
Energy from wind		0.05	0.08	0.07
Electricity from biogas		0.00	0.01	0.01
Scope 1 and 2 Emissions thousand tonnes CO₂e				
Total Scope 1 & 2 Emissions	1,974	1,596	1,615	1,610
Total Scope 1 Emissions	1,011	851	885	893
On-site fuel use	570	490	499	480
Sales force vehicles	165	131	135	144
Inhaler Propellant Losses (Emissions)	214	169	224	243
Waste Treatment Related Releases (Emissions)	17	22	10	15
Refrigerant Gas Losses (Equip >1kg refrigerant)	11	12	12	12
Direct CO ₂ e Releases from Production ³	30	0	1	-
Other Releases (Emissions) ³	4	0	0	-
Total Scope 2 Emissions	962	745	730	716
Electricity	951	738	722	703
Steam/Hot Water/Compressed Air/Chilled water	12	7	9	10
Fermentation / Biogenic releases	n/a	27	50	50
Complete Scope 3 Emissions thousand tonnes CO₂e				
1. Purchased goods and services	9,399	7,988	10,423	
<i>Purchased Goods</i>	7,277	5,456	8,476	
<i>Purchased Services</i>	2,122	2,531	1,947	
2. Capital goods	386	322	400	
3. Fuel and energy related activities	361	297	328	
4. Transportation and distribution (upstream)	84	65	91	
5. Waste generated in operations	51	43	29	
6. Business travel	206	182	200	
<i>Business Travel by air⁸</i>	96	94	115	130
7. Employee commuting	217	174	173	
8. Leased assets (upstream)	6	1	1	
9. Transportation and distribution (downstream)	406	717	805	
<i>Product Logistics⁸</i>	169	229	236	213
10. Processing of sold products	-	-	-	
11. Use of sold products	5,481	6,154	6,115	
<i>Emissions from use of propellant based inhalers by patients⁸</i>	4,647	5,411	5,132	5,447
12. End of life	124	97	105	
13. Leased assets (downstream)	-	-	-	
14. Franchises	-	-	-	
15. Investments	53	52	19	
Ozone Depleting Substances kg CFC 11 equivalent				
ODS contained in equipment	7,794	3,079	3,079	3,079
ODS Releases From Equipment	214	83	83	83

Water Use and Discharge				
Water Use Million m³				
Water Usage	18.7	15.2	14.9	14.5
Municipal	11.7	10.2	10.6	9.9
Ground Water	6.8	4.7	4.1	4.3
Surface Water		0.1	0.0	0.0
Tankers		0.3	0.2	0.2
Other Sources	0.2	0.0	0.0	0.0
Recycled Sources	0.5	0.2	0.2	0.1
Water Discharge Million m³				
Total Wastewater Discharged	10.2	11.6	11.1	10.8
Municipal Sewer	0.4	0.2	0.1	0.1
Surface Water	5.5	6.9	6.5	6.4
Recycling	4.4	4.0	3.6	3.4
Other	0.0	0.5	0.8	0.9
Waste				
Waste Generated thousand tonnes				
Total Waste Generated	178	158	142	137
Total Beneficial Use Waste	126	118	104	100
Total Beneficial Use Hazardous Waste	21	17	17	21
Total Beneficial Use Non-Hazardous Waste	106	101	88	79
Total Non-Beneficial Use Waste	52	40	38	36
Total Non-Beneficial Use Hazardous Waste	32	28	23	25
Total Non-Beneficial Use Non-Hazardous Waste	20	13	14	12
Waste to Landfill thousand tonnes				
Total Waste Landfill	17.2	9.5	8.1	6.6

Footnotes

- December 2016 values include estimated data when actual data were not available in time for publication.
- Environmental data is not collected for small commercial offices and warehouses based on materiality. The published data covers approximately 96% of our impacts
- We stopped reporting these categories in 2016 because from 2014 we separated out biogenic carbon emissions e.g. from fermentation processes, in line with guidance from the GHG protocol
- As a result of the transaction with Novartis and the new Joint Venture, 8 sites joined GSK in March 2015.
- Carbon emissions are calculated as CO₂ equivalent according to the Greenhouse Gas Protocol. Carbon emission factors for electricity and steam are taken from the *International Energy Agency Statistics - CO₂ from Fuel Combustion 2015 edition*. Carbon emission factors for combustion of natural gas, coal and other fuels are taken from the *UK Government emission conversion factors for greenhouse gas company reporting 2016 edition*.
- Energy and climate change impact for sales force travel, business travel and transport by air, land and sea are calculated *based on distance travelled, not directly on fuel use*. In 2015 we added in-country distribution and the impact of sending packages by courier to our logistics emissions.
- We are estimating the impact of releases of refrigerant including ozone depleting substances in ancillary equipment based on inventory data from 2014.

- 8 Bureau Veritas only verified selected Scope 3 carbon emission data. The Carbon Trust have provided quality assurance for all the Scope 3 emission data.
- 9 Total water does not include recycled water or canal water that is used to cool a data centre and returned without loss.
- 10 Waste generated is the operational waste that leaves GSK boundaries. Beneficial use waste is defined as waste disposed with some environmental benefit i.e. recycling, re-use, or incineration with energy recovery. Non-beneficial use waste is defined as waste disposed by either incineration with no energy recovery, or sent to landfill.