

Earth Changers Climate/Carbon Report 2022-23

Total Measured Carbon dioxide equivalent: 2472.4kg Co2e = 2.4724 representing +57.01% on last year.

Once again, this is largely due to growth in business activity as we recover from the pandemic. Both electricity use and conversion factor increased; water usage was significantly reduced. Staff travel decreased via most modes, though an additional long haul trip meant a total increase due to the return flight and airport taxi from remote area. Re-categorisation of car-type led to a decrease in carbon by a greater extent than mileage. More accurate reporting with country-specific data helped cut hotel carbon. Google made significant changes to reporting: First, in switching from Universal Analytics to GA4, Page Views and subsequent carbon impact data is affected. Secondly, Google Workspace made available live real-time carbon impact data so this so no longer (over) estimated but accurate.

As we continue to report, we continue to improve in methodology, available data and accuracy.

Item	Annualised	2021-2022	
	pro-rata'd	UK & Offshore Kg CO2e	Difference
Energy - Gas - Smart meter	152.83598	155.63898	-1.80%
Energy - Electricity - Smart meter	75.57797	70.6436478	6.98%
Water (process energy)	0.68647	1.1622	-40.93%
Water - Waste (treatment energy)	0.78218	2.1216	-63.13%
Staff Travel: Car	427.26482	769.37895	-44.47%
<i>Staff Travel: Tube</i>	26.92167	26.10751815	3.12%
Staff Travel: Rail	2.55333	15.42117868	-83.44%
Staff Travel: Bus	3.02514	4.517578314	-33.04%
Staff Travel: taxi	46.12195	12.61003925	265.76%
Staff Travel: Ferry		4.6845	
Staff Travel: Cable Car	0.03520	0.169946304	-79.29%
Staff Travel: Coach		6.39522	
Staff Travel: Flights	3072.77798	1177.956	160.86%
<i>Staff Travel: Hotels</i>	0.56640	124.8	-99.55%
<i>Website & CMS hosting</i>	66.91594	90.58378	-26.13%
Cloud email/file storage	5.88264	10.219	-42.43%
Total KG	3881.947677	2472.410138	
Total Tonnes	3.881947677	2.472410138	57.01%

Further Notes:

UK Government conversion factors for reporting of greenhouse gas emissions used unless otherwise stated. *Italics denotes estimations where absolute measures or conversion factors are not published: Tube km, Hotel nights, website hosting.*

A change in accounting period from year-end August to year end November (to align with financial accounts) means 15 months accounting, annualised.

100% Renewable energy bought from Eon, however this is not what can be drawn from the grid.

Future Considerations: Waste, Recycling, Paper, Plastics; Supplier trip impacts; offset residual emissions.