

GREENHOUSE GAS (GHG) EMISSIONS SUMMARY

The table below shows year-over-year GHG emissions by Scope and Category from 2021 through 2023.^{1,2}

Scope		Emissions (MT CO ₂ e) – Location			% of Total (Scopes 1 + 2 + 3)			Emissions (MT CO ₂ e) – Market			% of Total (Scopes 1 + 2 + 3)		
		2021	2022	2023	2021	2022	2023	2021	2022	2023	2021	2022	2023
1	Direct Emissions from Owned or Controlled Sources	161	134	309	0.1%	0.1%	0.3%	161	134	309	0.1%	0.1%	0.3%
1	Natural Gas	147	125	121	0.1%	0.1%	0.1%	147	125	121	0.1%	0.1%	0.1%
1	Diesel	1	1	181	0.0%	0.0%	0.2%	1	1	181	0.0%	0.0%	0.2%
1	Mobile Combustion	12	8	7	0.0%	0.0%	0.0%	12	8	7	0.0%	0.0%	0.0%
2	Indirect Emissions from Purchased Energy	19,812	19,574	10,448	11.9%	11.8%	8.7%	22,400	18,962	10,417	14.1%	11.7%	11.4%
2	Electricity	19,067	18,329	9,564	11.4%	11.1%	8.0%	21,154	17,718	9,533	13.3%	10.9%	10.4%
2	District Cooling (Chilled Water)	745	1,245	884	0.5%	0.8%	0.7%	1,246	1,245	884	0.8%	0.8%	1.0%
3	All Other Indirect Emissions	146,785	145,738	108,793	88.0%	88.1%	91.0%	136,797	143,120	80,753	85.8%	88.2%	88.3%
3	Fuel and Energy Related	2,691	1,221	580	1.6%	0.7%	0.5%	2,691	1,221	580	1.7%	0.8%	0.6%
3	Business Travel (Air Flights)	141	1,753	2,119	0.1%	1.1%	1.8%	141	1,753	2,119	0.1%	1.1%	2.3%
3	Employee Commuting	9,579	1,882	1,380	5.7%	1.1%	1.2%	9,579	1,882	1,380	6.0%	1.2%	1.5%
3	Purchased Goods + Services	86,865	94,687	56,013	52.1%	57.2%	46.9%	86,865	94,687	56,013	54.5%	58.4%	61.2%
3	Capital Goods	21,364	24,858	16,365	12.8%	15.0%	13.7%	21,364	24,858	16,365	13.4%	15.3%	17.9%
3	Upstream Leased Assets	10,454	7,634	15,361	6.3%	4.6%	12.9%	4,322	5,070	790	2.7%	3.1%	0.9%
3	Downstream Leased Assets	15,474	13,616	13,743	9.3%	8.2%	11.5%	11,618	13,562	274	7.3%	8.4%	0.3%
3	Water	30	0	-	0.0%	-	-	30	-	-	0.0%	-	-
3	Waste	186	87	3,232	0.1%	0.1%	2.7%	186	87	3,232	0.1%	0.1%	3.5%
Total		166,757	165,446	119,550				159,357	162,216	91,479			

¹ As a result of exiting from certain premises in 2023 and changes to the way some landlords report data, we have updated our emissions methodology for 2023. Consequently, CME Group's Scope 2 and 3 market-based emissions have reduced by some margin.

² Percentages may not add up to 100% due to rounding.