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Business Travel: Commercial Rail Travel

20 mtCO<sub>2</sub>e

### Year over Year Change in Emissions

Optera was also able to verify MMC's assertion that the year-on-year change in emissions, from the 2021 to 2022 inventory is as follows:

Item	2021 Quantity	2022 Quantity	% Change
Scope 1 emissions (mtCO <sub>2</sub> e)	24,152	27,036	+12%
Scope 2 emissions (mtCO <sub>2</sub> e)			
Location-based emissions	78,935	71,651	-9%
Market-based emissions	83,443	68,030	-18%
Scope 3 emissions (mtCO <sub>2</sub> e)			
Business Travel: Commercial Air travel	7,398	50,634	+584%*
Business Travel: Commercial Rail travel	N/A	20	N/A

