

2019 Data Factsheet: Environmental Indicators

As part of Microsoft's commitment to disclose information about our environmental footprint, below is a compilation of environmental indicators including our greenhouse gas emissions, energy consumption, water consumption and discharge, and waste. All reported values represent best available data at the time of publication. Data is adjusted to incorporate updated methodology, structural changes, and/or minor corrections. Additional detail on these changes is included as footnotes where applicable.

Greenhouse Gas Emissions (mtCO₂e)

	FY19	FY18	FY17
Scope 1 ¹	113,412	90,462	97,680
Scope 2 - Location-Based	3,556,553	2,945,974	2,697,464
Scope 2 - Market-Based ¹	275,375	183,329	139,108
Scope 3 - Purchased Goods & Services ^{2,3}	4,200,000	4,300,000	4,100,000
Scope 3 - Capital Goods ^{2,3}	2,100,000	2,100,000	1,600,000
Scope 3 - Fuel- and Energy-Related Activities (Location-Based) ²	650,000	550,000	540,000
Scope 3 - Fuel- and Energy-Related Activities (Market-Based) ²	170,000	110,000	89,000
Scope 3 - Upstream Transportation ^{2,3}	60,000	45,000	46,000
Scope 3 - Waste ²	1,200	600	700
Scope 3 - Business Travel ¹	392,557	378,230	337,122
Scope 3 - Employee Commuting ²	395,000	330,000	330,000
Scope 3 - Downstream Transportation ^{2,4}	53,000	100,000	80,000
Scope 3 - Use of Sold Products ^{2,4}	3,874,000	4,371,000	4,274,000
Scope 3 - End of Life of Sold Products ^{2,4}	76,000	85,000	106,000
Scope 3 - Downstream Leased Assets	770	1,690	700
Total - Scope 1, Scope 2, and Scope 3 ⁵	11,711,000	12,095,000	11,200,000

¹ Included in Carbon Neutral boundary.

² The reported emissions for this category represent an estimate based on broad-based assumptions and have therefore been rounded.

³ The emissions calculations for these categories have been adjusted according to an improved methodology, and now include supplier-specific emission factors derived from CDP Supply Chain responses. This methodology change has been applied to all years reported in this Factsheet.

⁴ As we continue to improve the product life cycle assessments for our devices, the emissions calculations for these categories have undergone a methodology change. This change has been applied to all years reported in this Factsheet.

⁵ Scope 2 Market-Based emissions included in this total. Total rounded to nearest thousand mtCO₂e.

Greenhouse Gas Emissions Normalized by Revenue (mtCO₂e/M\$)

	FY19	FY18	FY17
Scope 1	0.9	0.8	1.0
Scope 2 - Location-Based	28.3	26.7	27.9
Scope 2 - Market-Based	2.2	1.7	1.4
Scope 3 - Business Travel	3.1	3.4	3.5