

Equivalent Carbon Dioxide Calculator



Metric Tons	Greenhouse Gas	GWP (100 years)	Tons CO ₂ e
10	Carbon Dioxide	1	10
10	Methane	21	21
10	Nitrous Oxide	310	3,100
10	Hydrofluorocarbons	5,000	50,000
10	Perfluorocarbons	8,000	80,000
10	Sulphur Hexafluoride	23,900	239,000

Each greenhouse gas has a different global warming potential (GWP) — or the relative amount a greenhouse gas contributes to global warming in 100 years. Equivalent carbon dioxide (CO₂e) provides a standardized measure for all greenhouse gases. It is calculated by multiplying metric tons of a gas by its GWP.