

Carbon equivalent calculations

Equivalent car emissions

Results from report	Greenfield	Brownfield	Average across greenfield and brownfield
Avg. annual carbon savings in tons	2,780.00	1,300.00	2,040.00
Avg. annual carbon savings in kg	2,780,000	1,300,000	2,040,000
Avg. life cycle carbon savings in tons	89,000.00	41,600.00	
Annual equivalent no. cars	1,390	650	1,020
Life cycle equivalent no. cars	44,480	20,800	32,640
Methodology	Annual – 1 car produces 2 tons CO ₂ each year, so we have divided the total CO ₂ savings in tons by 2	Life cycle – annual figure x 32	
Link to source	What exactly is 1 tonne of CO₂? We make it tangible. - Climate Neutral Group		
Narrative of source	1 car on gasoline driving half a year in NL (average km's per year with passenger car, gasoline: 9,994 km, source CBS, Dutch National Statistics) ¹		
Sub-sources	² Calculated with the CO ₂ calculator that we use for CO ₂ Footprint calculations. This is based on the Green House Gas Protocol and our up-to-date emission factors, Dutch National emission factors, excl. flying (UK BEIS, formerly DEFRA)		

Equivalent powering homes

Results from report	Greenfield	Brownfield	Average across greenfield and brownfield
Avg. annual carbon savings in tons	2,780.00	1,300.00	2,040.00
Avg. annual carbon savings in kg	2,780,000	1,300,000	2,040,000
Avg. life cycle carbon savings in tons	89,000.00	41,600.00	
Annual equivalent no. homes	1,807.54	845.25	1,326.40
Life cycle equivalent no. homes	57,841.35	27,048.11	42,444.73
Methodology	Based on source data, we have calculated that 1 household generates 1.538 CO ₂ from electricity consumption	1 ton/ 0.65 households = amt. CO ₂ generated per household/ year - calculation below	
Link to source	What exactly is 1 tonne of CO₂? We make it tangible. - Climate Neutral Group		
Narrative of source	Electricity consumption (grey) by 0.65 households in one year in NL (average consumption HH: 2765 kWh, source Milieucentral) ²		
Sub-sources	² Calculated with the CO ₂ calculator that we use for CO ₂ Footprint calculations. This is based on the Green House Gas Protocol and our up-to-date emission factors, Dutch National emission factors, excl. flying (UK BEIS, formerly DEFRA)		

Equivalent glacier mass

Results from report	Greenfield	Brownfield	Average across greenfield and brownfield
Avg. annual carbon savings in tons	2,780.00	1,300.00	2,040.00
Avg. annual carbon savings in kg	2,780,000	1,300,000	2,040,000
Avg. life cycle carbon savings in tons	89,000.00	1,600.00	21.70
Equivalent kilogram glacier mass	44,480,000	20,800,000	
Rounded out figure	44 million	20 million	32 million
Link to source	ABB Emission Reference Guide, taken from carbonbrief.org	Global warming to date could 'obliterate' a third of glacier ice - Carbon Brief	
Narrative of source	16kg of glacier mass is lost every year per kg CO ₂	The article refers to a study published in Nature Climate Change, by the researchers B. Marzeion, G. Kaser and F. Maussion.	

Other comparisons we can draw, based on other benchmarks

Results from report	Greenfield	Brownfield	
Avg. annual carbon savings in tons	2,780.00	1,300.00	
Avg. annual carbon savings in kg	2,780,000	1,300,000	
Avg. life cycle carbon savings in tons	89,000.00	41,600.00	
Equivalent of up to...	fire extinguishers	1,390,000.00	650,000
	number of 500m ³ hot air balloons	2,780.00	1,300.00
	cubic meters of Cola	347,500.00	162,500
	liters of Cola (125 m ³ = 125,000)	347,500,000.00	162,500,000
Narrative of source	What exactly is 1 tonne of CO₂? We make it tangible. - Climate Neutral Group	"1 ton of CO ₂ looks like...500 CO ₂ fire extinguishers; a 500 m ³ hot air balloon; 125m ³ of cola."	

Average annual cost savings

Results from report	Greenfield	Brownfield	Average across greenfield and brownfield
	\$843,750	\$1.5 million USD	\$1.17 million USD
	0.08	0.11	0.10
	843,750.00	1,500,000.00	1,171,875.00