CO2 Saved

How We Calculated It?

Our calculation assumes both upstream and downstream diverted emissions, where 1 item shared counts for 1 item saved and 1 item not being produced and we are not discounting for leakage or rebound effects.

Based on data from a Temasek x Deloitte x A*STAR study "Environmental Impact of Key Food Items in Singapore", 1kg of food consumption in Singapore results in GHG emissions of 2.5995kg of CO2. Hence, 1kg of food diverted results in 2*2.5995 = 5.1989kg of CO2 saved

Electricity Saved

How We Calculated It?

Singapore's latest average Operating Margin (OM) Grid Emission Factor (GEF), which measures the average CO2 emissions emitted per unit of net electricity generation, was 0.4057kgCo2/kWh in 2021. Thus, electricity saved is the amount of CO2 saved/0.4057.

Water Saved

How We Calculated It?

Our calculation assumes both upstream and downstream water saved, where 1 item shared counts for 1 item saved and 1 item not being produced and we are not discounting for leakage or rebound effects.

Based on data from a Temasek x Deloitte x A*STAR study "Environmental Impact of Key Food Items in Singapore", 1kg of food produced need 368 litres of water on average. Hence, 1kg of food diverted results in 2*368 or 736 litres of water saved.

Equivalent of Tree Planted

How We Calculated It?

The CO_2 balance of trees varies greatly depending on the type of tree, location, season and periods with the same climate or weather. There have been numerous scientific studies on how CO_2 offsetting can be determined.

A rate of 24 kg CO_2/tree is assumed, based on several scientific studies. Thus, the equivalent trees planted is the amount of CO_2 saved divided by 24.

Car KM Off The Road Saved

How We Calculated It?

The average petrol car produced 165 grams of CO_2e per km in 2024, while diesel cars averaged roughly 170 grams of CO_2e per km. 1kg CO2 is generated by 6km on the road, based on the average data on this study: Carbon footprint of travel per kilometer in the UK 2024, by transportation mode.

Thus, the average car km off the road is the amount of CO2 saved*6km

Natural Gas Saved

How We Calculated It?

Burning natural gas produces 0.185 kg CO2/kWh of natural gas. Thus, natural gas saved is the amount of CO2 saved/0.185.