

Converting Waste to CO₂e

Important!

- These are 2018 UK government conversion rates.
- Before using the conversions on this table you should check with your waste supplier if they can provide more accurate conversions or search online for local information.
- This table uses metric kilograms (kg) so you will need to first convert any other weight units you are using to measure waste.

Waste Type (per kilo)	Conversion Factor by Disposal Method			
	Landfill	Recycling	Compost	Incineration
Mixed	0.5865313	0.0213842	-	0.0213842
Food	0.6269729	-	0.0102586	0.0213842
Plastic	0.0009	0.0213842	-	0.0213842
Glass	0.0009	0.0213842	-	0.0213842
Paper and cardboard	1.0419017	0.0213842	0.0213842	0.0213842
Garden waste	0.5790571	-	0.0102586	0.0213842
Batteries (small appliances only)	0.0754919	0.0646365	-	-

For example:

20 kilos of food waste put into landfill: $20\text{kg} \times 0.6269729 = 12.539 \text{ Kg CO}_2\text{e}$

20 kilos of food that is incinerated: $20\text{kg} \times 0.0213842 = 0.427 \text{ Kg CO}_2\text{e}$

20 kilos of food waste that is composted: $20\text{kg} \times 0.0102586 = 0.205 \text{ Kg CO}_2\text{e}$

Source for CO₂e conversions

<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>