slido



In Europe, which country do you believe has the highest amount of food waste?

i) Start presenting to display the poll results on this slide.

April 2024

Carbon De-Jargoned

A webinar to simplify carbon management for hotel managers

Hosted by:







Royal Crescent Hotel and Spa, Bath, first awarded Green Key in 2022





The leading international eco-label for tourism facilities:

- Hotels and Hostels
- Campsites and Holiday Parks
- Small Accommodations (fewer than 15 guest rooms)
- Conference Centres
- Restaurants
- Attractions

GREEN KEY

Arete Zero Carbon

Carbon Management & Sustainability Consultancy







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A Definition of Carbon Dioxide

Carbon dioxide (CO₂) is a colourless greenhouse gas produced by burning carbon and organic compounds and by respiration.

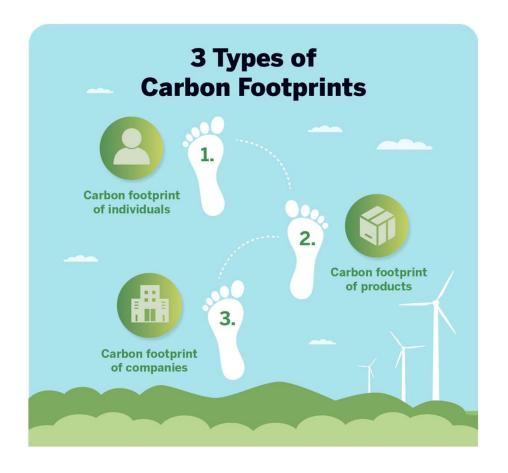
Key Facts

☐ Carbon emissions refer to the release of carbon dioxide (CO₂) into the atmosphere.
☐ They primarily result from fossil fuel combustion .
☐ Significant contributors include vehicles, industries, and power plants .
☐ Major contributor to global warming and climate change .



What is a Carbon Footprint?



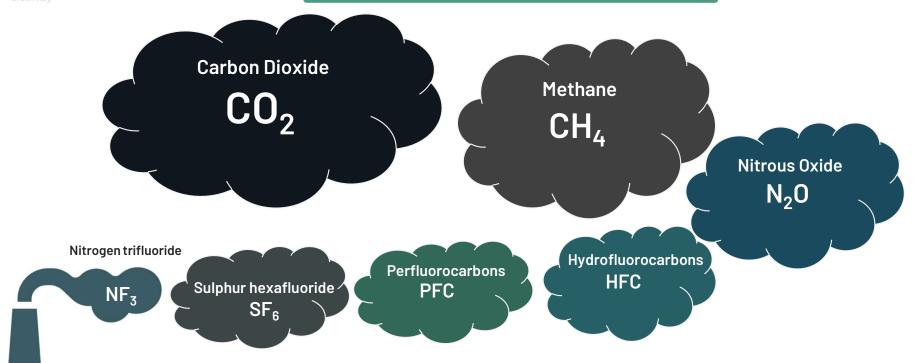


- ☐ A carbon footprint is a **snapshot in time** of human-caused emissions
- ☐ Used to report on **emissions from activities** such as:
 - Driving
 - Flying
 - Using electricity
 - Manufacturing of goods
 - Consuming goods
- Includes emissions from operations,value chain, and supply chain



The 7 Greenhouse Gases











Grouping the Gases

Carbon Dioxide

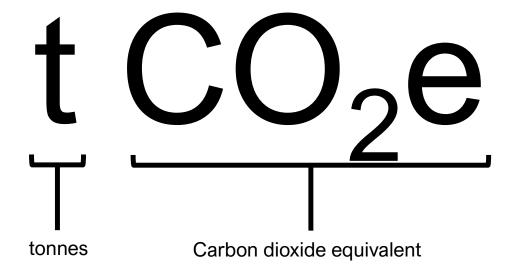
CO₂e

- ☐ Greenhouse gases are grouped for **simplification**
- \square Emissions are measured in carbon dioxide equivalents (CO₂e)
- \Box The different greenhouse gases are calculated based on their global warming potential compared to carbon dioxide (CO₂).
 - ☐ It helps compare their impact on climate change uniformly.

Measuring Emissions: The Unit



Units to cover all 7 Greenhouse Gas's:





What is a Tonne?





1 Metric Tonne = 1000kg

Equivalent to the weight of

. . .

1979 VW Beetle



A Great White Shark



14 Kegs of Beer

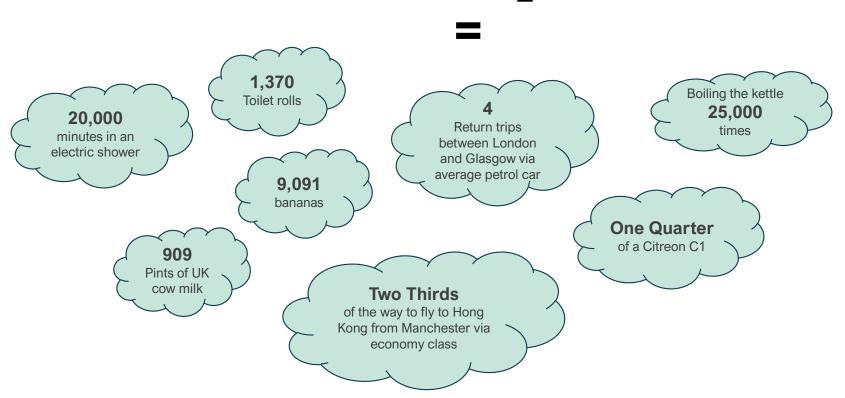




What is a Tonne of Carbon?



1 t CO₂e





2,000,000,000,000 Total Human-Caused Emissions:

Why do we care?





Each year an additional: **50,000,000,000** t CO2e









- It is a globally recognised standard for GHG accounting and reporting
- 2 It was created by the World Resources Institute (WRI) & the World Business Council for Sustainable Development (WBCSD)
- **Ensures:** Consistency, Transparency, Accuracy, Relevance, and Completeness





Scope 1

Direct Emissions Scope 2

Indirect Emissions Scope 3

Other Indirect Emissions





Fossil fuels to power...



Company cars



Company-owned delivery vehicles



Heating systems



Hot water

Scope 1

Direct Emissions





Purchased electricity to power...



Lighting



IT & Tech Equipment



Small appliances



Catering equipment

Scope 2

Indirect Emissions





Scope 3

Other Indirect Emissions All other value chain activities including...



Employee travel



Staff pensions



Water consumed & Waste generated



All procurement activities!





Scope 3

Other Indirect Emissions

Scope 1

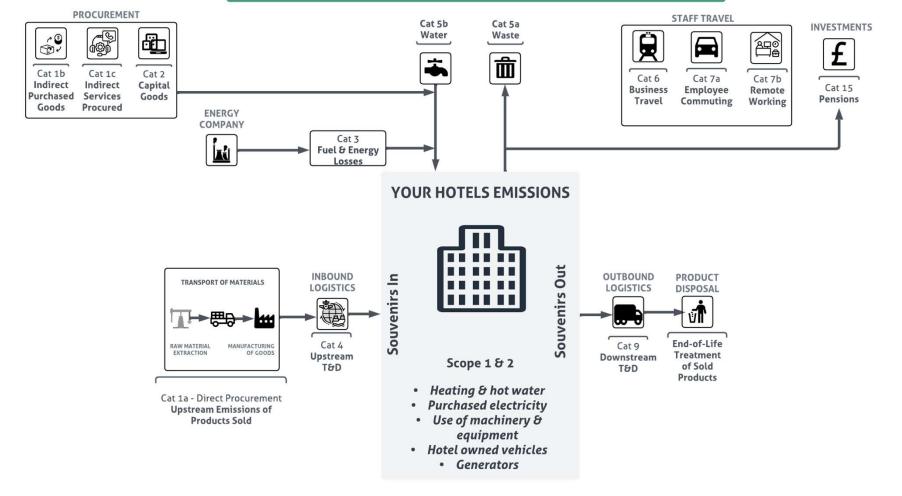
Direct Emissions Scope 2

Indirect Emissions



Typical Emissions from Hotels







What is Net-Zero?



To be truly "Net-Zero" you will need to

- ✓ Measure your carbon footprint (Scopes 1, 2 & 3).
- ✓ Develop a clear and actionable carbon reduction plan
- ✓ Reduce your emissions by 90% from your baseline period.
- ✓ Invest in credible and permanent carbon removal offsets for any unavoidable, residual emissions



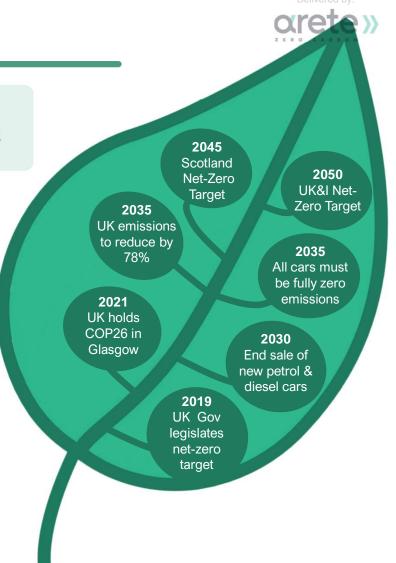
Why Net-Zero?

UK Net-Zero Target:

In 2019, UK became 1st major economy to commit to reaching <u>net-zero</u> carbon by 2050.

Typical Business Goals for Net-Zero:

- Pressure from supply chain (upstream & downstream) to report and disclose emissions
- Staff retention & recruiting talent
- Avoiding potential future carbon tax
- Greater transparency of company operations and supply chain activities
- Enhance ESG reputation
- Increase the likelihood of winning competitive tenders



Change this as it doesn't need to be UK&I Shaun Gilroy, 2023-11-08T11:31:49.658 SG0







Confusing the terms...

	Net-Zero	Carbon Neutral
Definition	Measuring baseline GHG emissions, reducing by a minimum of 90% against baseline emissions, and removing/offsetting any residual, unavoidable emissions in line with SBTi.	A state of balance between the CO_2 emitted into the atmosphere and the CO_2 removed from the atmosphere.
Emissions Covered	Scope 1, 2 & 3	Scope 1 & 2 (Scope 3 encouraged but not required)
Applicable Offsets	Carbon removal credits only	Carbon avoidance/reductions and removal credits
Application	Global, national and company level	Company, product or service

Brussels looking to ban the term Carbon Neutral in consumer marketing as they deem it misleading Shaun Gilroy, 2023-11-08T11:31:20.139



A Glossary of Terms



- **❖ Carbon**: Emitted as CO₂ in combustion.
- ❖ t CO₂e: Metric for greenhouse gas emissions, accounting for various gases.
- ❖ **Net-Zero**: Reducing and balancing emitted greenhouse gases with removal or offsetting measures.
- **Carbon Neutral**: Eliminating or offsetting carbon emissions to achieve environmental balance.
- ❖ GHG Protocol: Standardised framework for measuring and managing greenhouse gas emissions.
- **Carbon Accounting**: *Tracking and reporting carbon emissions to manage environmental impact.*
- Scope 1: Direct emissions from owned or controlled sources.
- ❖ Scope 2: Indirect emissions from purchased electricity, heat, and steam.
- **Scope 3:** All other indirect emissions from the value chain.
- ❖ Value Chain: Full lifecycle of a product or service, from production to consumption.

Thanks for Listening!

Any Questions?



