

UK Energy Security Strategy 2022

The UK Government legislated a net zero emissions target by 2050, with a target of reduced emissions by 78% by 2035.

Paris Agreement

At the UN Climate Change Conference (COP21) in Paris, France, 196 countries adopted the first ever, legally binding international treaty on climate change, with the goal of keeping the increase in global average temperature to well below 2°C above pre-industrial levels and to limit the temperature increase to 1.5°C above pre-industrial levels.

What is Carbon Footprint?

Carbon footprint is the total amount of greenhouse gas (GHG) emissions that are generated by our actions, that are released in the atmosphere and contribute to climate change.

Common Greenhouse Gases:

- **Carbon Dioxide:** This is the largest contributor to climate change, but not the most powerful greenhouse gas. Emitted when coal, oil, natural gas and carbon-rich fossil fuels are burned.
- **Methane:** Methane emissions are lower than carbon dioxide emissions but has 25 times the global warming potential than carbon dioxide. Emitted from decomposition of plant matter, released from landfill and swamps and also cattle.
- **Nitrous Oxide:** Contributes 298 times more emissions than carbon dioxide. Emitted by using nitrogen-rich fertilisers and is released from bacteria in soil.

Did You Know?

Improving the energy efficiency in a business, is the quickest way to respond to rising energy prices and could help reduce energy bills by around 20%.



Ways You Can Help Reduce Your Carbon Footprint

1. Switch off lighting, equipment and plant when not in use and don't leave it running overnight.
2. Use natural lighting where possible.
3. Keep thermostats at a maximum of 19°C.
4. Keep windows and doors closed when not in use and draught-proof them.
5. Car share or replace car journeys with carbon efficient methods of transport, ie walking, cycling or using public transport.
6. Implement a waste hierarchy, to reduce, reuse and recycle waste where possible.

Validation of Toolbox Talk

After workers have received the Toolbox Talk information, the following questions should be asked to ensure that they have listened and understood.

The questions can be posed to a group or an individual. If the incorrect answer, is given the trainer should repeat the relevant section of the Toolbox Talk.

Q1. Name three ways in which people could reduce energy consumption?

A1. switch lights off when not in use, use thermostats to control temperature, eliminate draughts, ect

Q2. What is the maximum temperature should thermostats be set to?

A2. 19°C

Q3. What is the UK governments target for reduced emissions by 2035?

A3. 78%

Q4. Name any 3 ways to control waste?

A4. Prevent, Reduce, Reuse, Recycle, Dispose.

Q5. What are carbon efficient methods of transport?

A5. Walking, Cycling, Car Sharing, Public Transport.

Q6. How much can you reduce your energy bill by improving your energy efficiency?

A6. By around 20%

WRITE YOUR OWN QUESTIONS HERE:

Names of those attending toolbox talk

Toolbox Talk Subject Here:

Carbon Footprint

Date:

Trainee name (print)

Trainee signature

Carried out by (Name - Print)

Carried out by (Signature)