

Welcome

Carbon Tracker Launch Event

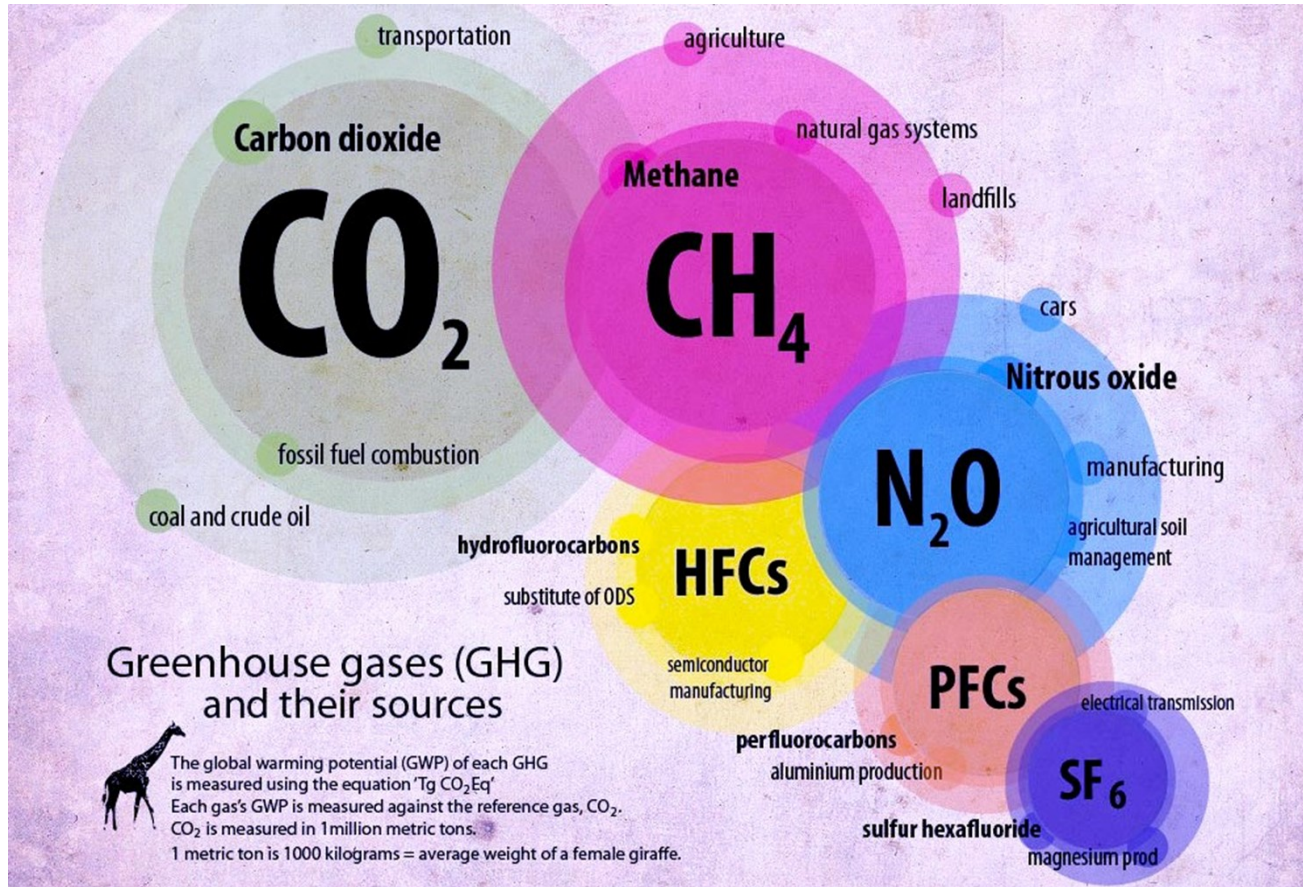
Carbon Footprint Calculator for Staffordshire businesses

Thursday 14th October 2021

Agenda

- 11:00am** **Welcome and introduction SBEN,**
Nicola Kent, Head of Funding Business & Enterprise, Staffordshire County Council
- 11.05am** **Carbon Tracker Introduction and Methodology,**
Juhi Bhatia, Low Carbon Project Officer, SBEN, Staffordshire County Council
Faith Johnson, Director, Environmental Quality Mark CIC
- 11.25am** **Staffordshire County Council's Carbon and Climate Change Strategy**
Dianne Hewgill, Climate Change Officer, Staffordshire County Council
- 11.35am** **Carbon Tracker Feedback from Business User Testing,**
Juhi Bhatia, Low Carbon Project Officer, SBEN, Staffordshire County Council
- 11.45am** **Q&A**
- 12:00pm** **Close**

Tonnes of Carbon Dioxide Equivalent (tCO₂e)



What is Carbon Tracker?

Carbon Tracker is SBEN's online carbon footprinting and reporting tool that enables Staffordshire organisations to measure carbon emissions from their energy use, fuel use, travel, water consumption and energy generation.

Funded through Staffordshire County Council and developed by SBEN with The Environmental Quality Mark CIC, Carbon Tracker is available free to eligible Staffordshire organisations.

Eligibility

Carbon Tracker is funded by Staffordshire County Council and is only available FREE to businesses in Staffordshire.

To apply you should be a member of Staffordshire Business Environment Network (sben).

Why use Carbon Tracker?

- Measure, monitor and mitigate the areas of highest emissions in your businesses.
- Set robust targets to reduce carbon emissions which can reduce costs and improves productivity
- Start your journey towards Net Zero carbon emissions and track your progress, year on year
- Commit and make a pledge!
- Demonstrate leadership and strengthen your green credentials

Sben funded support is available to help you develop a carbon reduction strategy and prioritise actions towards environmental sustainability.

Carbon Tracker Methodology

- Simple - designed to be simple and require no prior knowledge of greenhouse gas company reporting
- Robust - follows the UK government Environmental Reporting Guidelines
- Converts your data into carbon emissions expressed as tonnes of carbon dioxide equivalent (CO₂e)
- Multiplies your data by the UK Government carbon conversion factors
- ‘Consolidated carbon factors’: scopes 1+3 and scopes 2+3

Gas				2021
Activity	Fuel	Scope	Unit	kg CO ₂ e
Gaseous fuels	Natural gas	1	kWh	0.18316
WTT- gaseous fuels	Natural gas	3	kWh	0.03135
Total All Scopes				0.21451

What data is needed?

Source of emissions	What information you need
Electricity consumption	Total Kilowatt hours (kWh) used
Gas consumption	Total Kilowatt hours (kWh) used
Fuel use (Fuel oil, diesel, petrol, gas oil, LPG)	Total consumption of each fuel in Litres
Biomass (wood pellets, chips, logs)	Total Kilograms (kgs) of each biomass fuel type used
Water supply and discharge	Total water (1) supplied and (2) discharged in an year in cubic meters (m3)
'Fleet' company travel, including owned/leased vehicles	Vehicle type (e.g. car, van, motorbike) Vehicle fuel type (petrol/diesel/ EV/hybrid), Number plates (optional) Mileage (N.B you can choose to enter mileage either per journey, per vehicle, or total mile travelled)
Employee 'grey fleet' and other travel	Details of employee travel in their own vehicles or on public transport - car, train, coach, bus, flights etc.
Electricity Generation	Kilowatt hours (kWh) exported to the grid

What is the outcome?

- Clear on-screen results, which allows businesses to compare and report carbon emissions year on year
- Downloadable report with standard recommendations to reduce carbon emissions
- Carbon Intensity Ratios for benchmarking
- Interactive Net Zero target setting
- Pledge to Net Zero

Launch Poll 2

Carbon Tracker Business Registration

sben
Staffordshire Business & Environment Network

Welcome to your Carbon Tracker



- Calculate your organisation's carbon footprint and track it over time
- Reduce emissions and set robust targets to start your journey towards net zero

If you already have an account then you can sign in below. Otherwise, you can register your business here.

You can find out more about the tracker and how it works by visiting our [FAQs page](#).

Email address

Password

☐ Remember Me

[Forgotten your password?](#)

Enter Business Details

< Previous

Next >

About your business

Number of Employees (required)

46

Turnover

Annual Turnover (£) (required)

890000

Revenue

Profit/sales revenue (£)

590000

Physical size

Total Gross Area - the "floorspace" of your premises (in sq. metres)

520

Set your carbon footprint reporting period



Your footprint reporting period

Enter the date range below that you will be basing your footprint data on. Carbon Tracker calculations are typically based on annual emissions from the previous 12 months, either as a calendar year or your business financial year, although you are free to use a custom date range.

From:

01/01/2020



To:

01/01/2021



Enter the data for Energy Audit



Energy audit Jan 2020—Jan 2021

Identify the sources of energy for your business from the list below, and for each one record how much you used in the reporting period.

Make a sensible split between domestic and business if you use your home for work.

For more help about where what to include or where to find the information you should visit the FAQs.

Electricity

Gas
Fuel Oil
Diesel
Gas Oil (Red Diesel)
Petrol
Biomass
LPG
Coal

Electricity usage

Enter usage for each meter that applies

Meter One

Add description/ref

kwh used 465000

Green tariff? ☐

+ Add a meter

Enter the data for Transport Audit



Cars, vans and motorbikes

Business vehicles

Enter the mileage for each type of vehicle for the whole carbon reporting period.

Transport type

Distance (miles) ⓘ

Large car (> 2L) ▾

26000

Class III van ▾

56000

Small car (< 1.7L) ▾

32000

Class III van ▾

82000

Large car (> 2L) ▾

15600

Class III van ▾

12000

+ Add a vehicle

Employee vehicles

Use this section to record any mileage made by you or anyone else on behalf of the business in **vehicles that are privately owned**

Transport type


Distance (miles) ⓘ

Class I van ▾

15000

+ Add a vehicle

Enter the data for Water Audit



Water audit

Jan 2020—Jan 2021

For more help about where what to include or where to find the information you should visit the FAQs.

All water supply

Add description/ref

m³ used

9600

Type

Water supply

▼

+ Add a meter

Total m³

9,600

Enter the data for Electricity generated and exported to the grid

Generating electricity Jan 2020—Jan 2021



Please note - the figure(s) you need to enter here relate to the **amount of electricity exported back to the grid**, i.e. not the total amount generated.

Any generated power that you use in your business does not need to be recorded here.

For more help about where what to include or where to find the information you should visit the [FAQs](#).

Solar panels

Add description/ref

Kwh exported 680

Type Solar

+ Add a source

Total KWh

680

Results – Total Carbon Emissions (tCO₂e) for Business

Your footprint report for The Testing Corporation
January 2020 January 2021

Download report

1,132.30

Tonnes CO₂e



● Energy consumption ● Transport ● Water usage

	Total Carbon Equivalent (tonnes)	Cost £
Energy	880.43	£ 12,220
Transport	248.71	£ 19,732
Water	3.30	£ 681
Electricity exported	- 0.14	
Total CO₂e	1,132.30	£32,633


Results – Carbon Emissions breakdown by source


Carbon Footprint Breakdown


The charts and tables below show your carbon emissions across the various activities within your business. Activities with the greatest emissions are a good place to start your carbon reduction actions.

① You can read more detail about how these numbers are generated and what they mean on the FAQs page

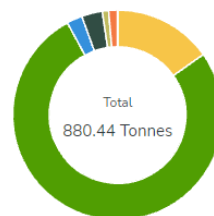
 **Energy audit**

 **Transport audit**

 **Water audit**

 **Energy exported**

- Electric
- Gas
- Fuel Oil
- Diesel
- Lpg
- Wood chip
- Wood pellets



Energy type	CO ₂ e (Tonnes)
Electric	133.98
Gas	676.53
Fuel Oil	21.21
Diesel	28.09
Lpg	8.54
Wood chip	11.59
Wood pellets	0.50

Results – Carbon Intensity Ratios

Carbon Intensity

Carbon intensity ratios help you compare your carbon footprint with other businesses or sectors. They are calculated by dividing your total carbon emissions by a metric that is comparable between businesses, for example the number of staff (Full Time Equivalent) or your turnover (£ million turnover).

by Number of Staff



24.6

Tonnes CO₂e per person

by Annual Turnover



1.3

Kg CO₂e per pound

by Floorspace



2.2

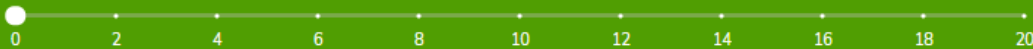
Tonnes CO₂e per sq. meter

Results – Interactive Net Zero target setting

Heading for Net Zero?

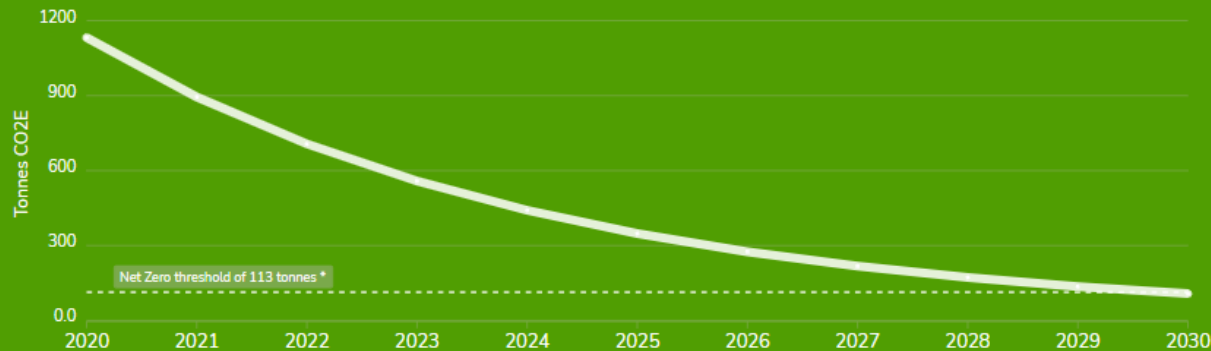
Your reduction targets and pledge to Net Zero

Target annual percentage reduction:



Target year:

2030



With a reduction rate of **21%** of your footprint from 2020 (equivalent to **237.78 Tonnes CO2E** in the first year) -
you would achieve net zero by **2030**.

Launch Poll 3

Commit and make a pledge

Share your pledge

Join governments, businesses, cities, regions, and universities around the world to make your pledge public, through the SME Climate Hub.

The SME Climate Hub pledge commits your business to take action immediately in order to:

- Halve your greenhouse gas emissions before 2030
- Achieve net zero emissions before 2050
- Disclose your progress on a yearly basis

In doing so, your pledge will be recognised as part of the United Nations Race to Zero campaign.

[Visit the SME Climate Commitment page](#)





NET ZERO BY 2050



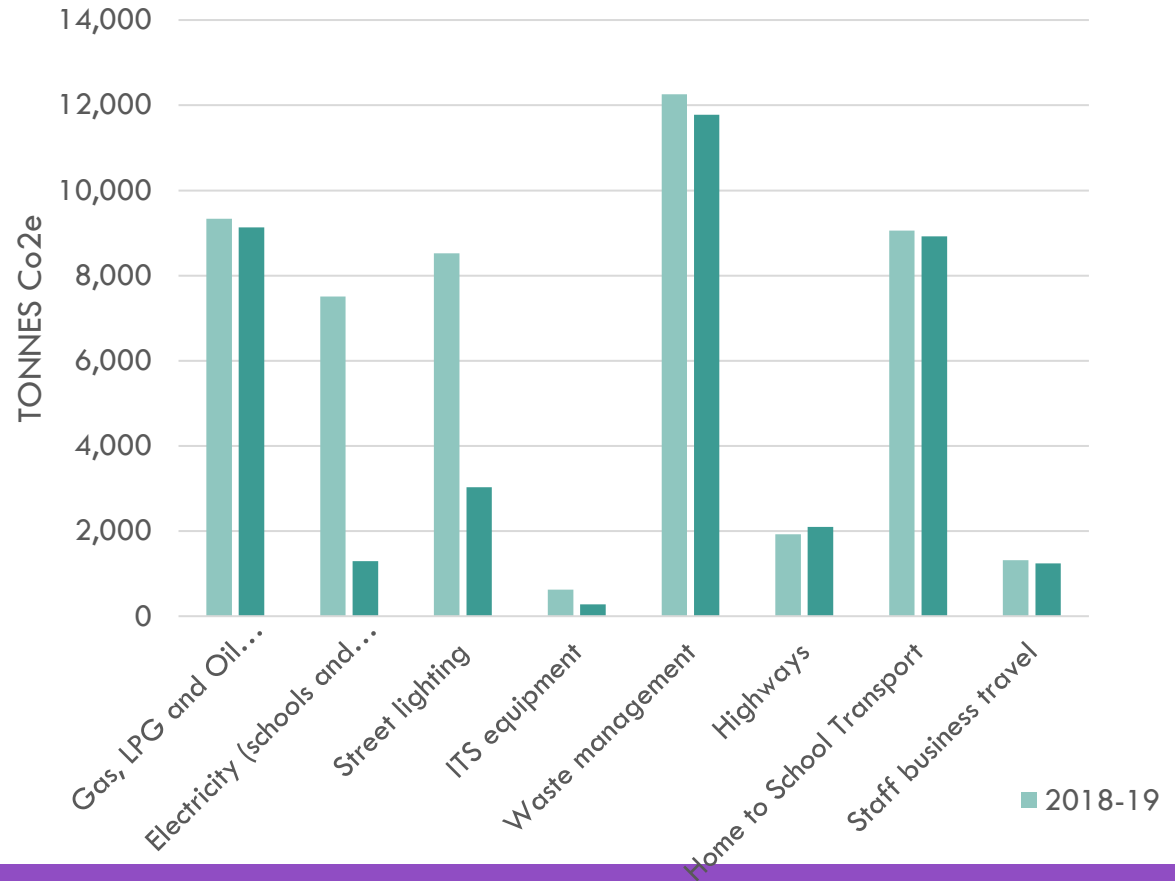


Staffordshire recorded **20** major flood events between 2000 and 2020. **9** of these were between 2018 and 2020

In 2020 flooding caused over **£8 million** in damage to properties in Staffordshire

EMISSIONS MONITORING

Staffordshire County
Council carbon
emissions reduced
from **50,650** tonnes in
2018/19 to **36,675** in
2020/21



Climate Change

Strategic
Development
Framework



Climate Change

Draft Action Plan 2021- 2025

Doing Our Bit to make
**Staffordshire
Sustainable**



What we are focusing on...

Waste



Air Quality



Organisational
Carbon
Reduction



Natural
Environment



Behaviour
Change



What we have done so far...



£3m dedicated to make schools more energy efficient.

Our Bikeability scheme has delivered over 10,000 training sessions to provide children with the practical skills to cycle safely on the roads to reduce traffic on the roads.



Air Aware Scheme which aims to improve air quality outside schools and to educate children.

What we have done so far...

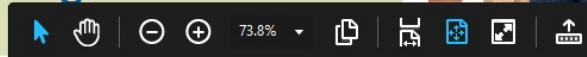


Climate Change Action Fund supported 115 community groups across Staffordshire to set up green initiatives. Last year we invested £79k. This year we plan to increase the investment to £100k

Secured £10.5m to update houses of fuel poor families across the county. Including insulating homes and green homes measures



We have given Staffordshire businesses free membership to the Staffordshire Business Environment Network to help them to make their business more energy efficient.



Doing Our Bit to make

Staffordshire Sustainable



Staffordshire
County Council

Business Feedback from User Testing and Trial

Mark Berrisford, Head of Sales, Mantec Technical Ceramics Ltd

"Through Carbon Tracker, we were able to establish an accurate carbon footprint and identify several simple and cost-effective ways of making initial reductions in our footprint, at little to no cost"



Theo Kuehn, Sustainability Manager, Cosy Direct

"In an era in which quantifying your climate impact can be a confusing and lengthy process, the SBEN carbon tracker is a fast and easy tool, which provides clarity in current impacts, and guides you on how to lower emissions"



SBEN members committing to carbon reductions and making a public pledge to Net Zero



Launch Poll 4

Q&A

Thank you!