

# Telford & Wrekin Council Becoming Carbon Neutral

## Environment Scrutiny Committee



# Introduction

## Climate Change

- What is Climate Change?
- Why is it such a issue?
- What does Climate Change mean for Telford and Wrekin?
- National /Local picture on Climate Change

## Telford & Wrekin Council Becoming Carbon Neutral

- What we have achieved so far
- Action Plan

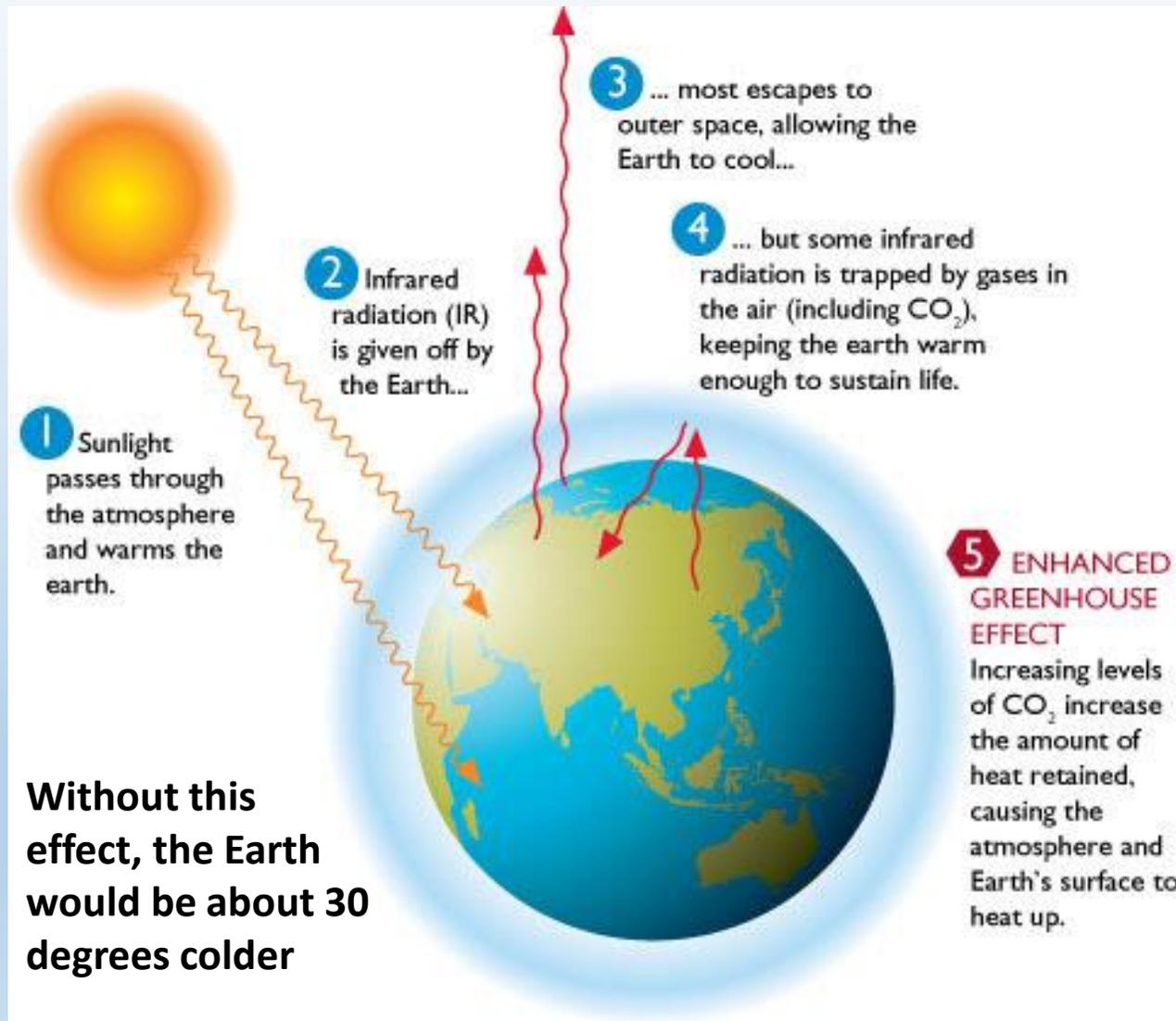
## Telford and Wrekin Borough

- Climate Change Partnership

## Scrutiny - Scoping areas of work

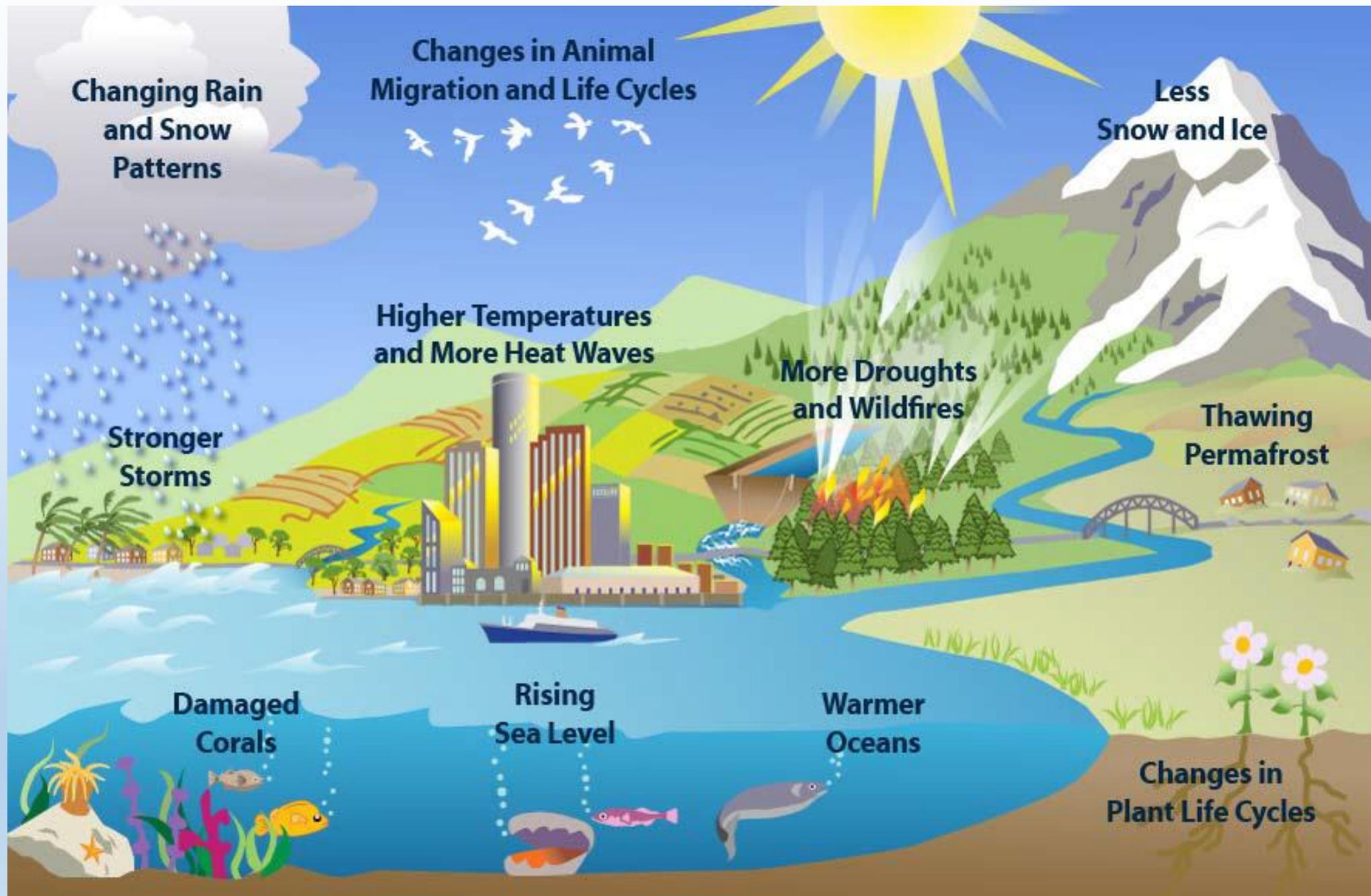


# What is Climate Change?



However, we are adding to the **greenhouse effect**, trapping more heat and increasing the temperature.

Leading to a **growing number and intensity of extreme weather events.**



**Changing Rain  
and Snow  
Patterns**

**Changes in Animal  
Migration and Life Cycles**

**Less  
Snow and Ice**

**Higher Temperatures  
and More Heat Waves**

**More Droughts  
and Wildfires**

**Thawing  
Permafrost**

**Stronger  
Storms**

**Damaged  
Corals**

**Rising  
Sea Level**

**Warmer  
Oceans**

**Changes in  
Plant Life Cycles**

# What does Climate Change mean for Telford and Wrekin?

We are seeing a trend towards **warmer, wetter winters** and **hotter, drier summers** and there is emerging evidence of **changing rainfall patterns**.

The top six areas of climate change related risks are:

- **Flooding** risks to communities, businesses and infrastructure
- Risks to **health, well-being** and **productivity** from high temperatures
- Risk of **shortages in the public water supply**, and for agriculture, energy generation and industry
- Risks to **natural capital**, including terrestrial, soils and biodiversity
- Risks to **domestic food production and trade**
- New and emerging **pests and diseases, and invasive and non-native species, affecting people, plants and animals**



# National/Local Picture

**National** The Government has legislated for net-zero emissions by 2050

## Telford & Wrekin Council

- 25th July 2019 Climate **Emergency Declaration** made with strong cross party political support for action
- **Commitment** for the Council to be Carbon Neutral by 2030
- And a **Aspiration** for the Borough to be the same
- February 2020 **Telford & Wrekin Council Becoming Carbon Neutral Action Plan** launched setting out the Council's journey to Carbon Neutral by 2030
- June 2020 **Telford and Wrekin Borough Climate Change Partnership** inaugural meeting



# The Motion

- Make a **commitment** for the Council's operations and activities to be carbon neutral by 2030;
- Work with partners to identify and implement **adaptation and mitigation measures** to deal with the effects of the ongoing changes in climate;
- Collaborate and engage with residents, partners and businesses in Telford & Wrekin and at a regional and national level to achieve our aspiration for the borough to be carbon neutral by 2030 – **making sure we take communities with us, protect employment and without impoverishing our most deprived communities;**
- Measure our current carbon footprint as a **baseline** to enable us to report on progress;
- Set up a **partnership** to develop an action plan to move this declaration to delivery.

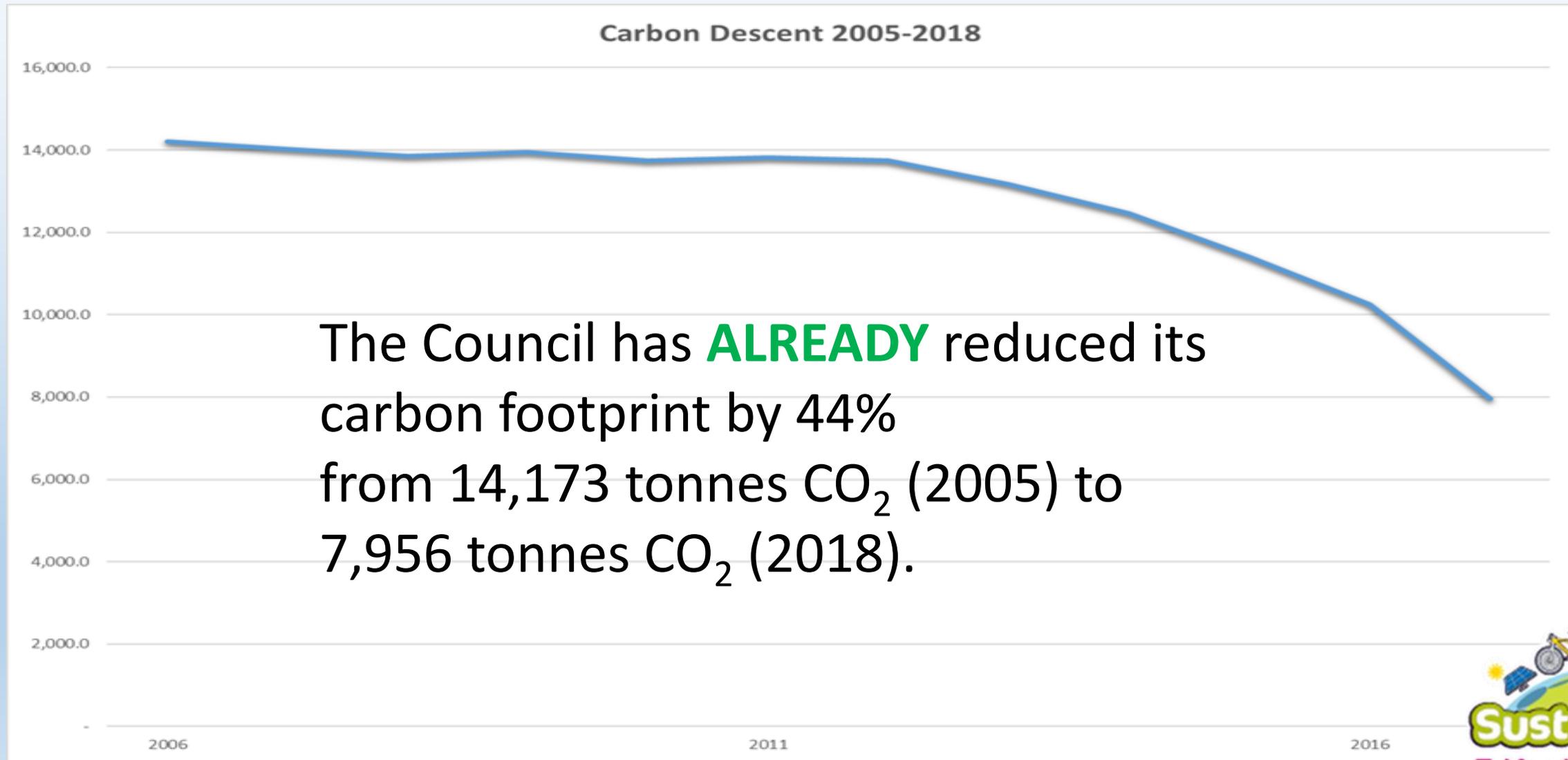


# Climate Change action is not new!

- Protection to 200 **Green Guarantee** sites – Council owned sites that provide valued local assets which also contribute to flood alleviation and act as ‘green lungs’ providing carbon sequestration
- Conversion of over 20,000 street lighting to **LED lighting**. 98% of the conversion has been completed. The scheme has delivered savings of £420,000 per year since 2018/19 from the initial investment of £5.2 million.
- Installing only the second publically owned **Solar Farm**, the 4MW solar farm at Wheat Leasows generates enough electricity to power 800 homes generating 18.63 GWh of green electricity, a total carbon avoidance of over 9,000 tonnes, which has generated an income of £1.83m
- **Sustainable Buildings Initiative** – Delivering LED lighting schemes across four corporate buildings (Darby House, Wellington Civic Centre, Telford Ice Rink and Telford Tennis Centre), as well as solar PV at Telford Ice Rink and the Telford Tennis Centre – delivering energy savings of 548558 kWh (equivalent to cost savings of £71,312.54) and CO2 reductions of 194.78 tonnes.

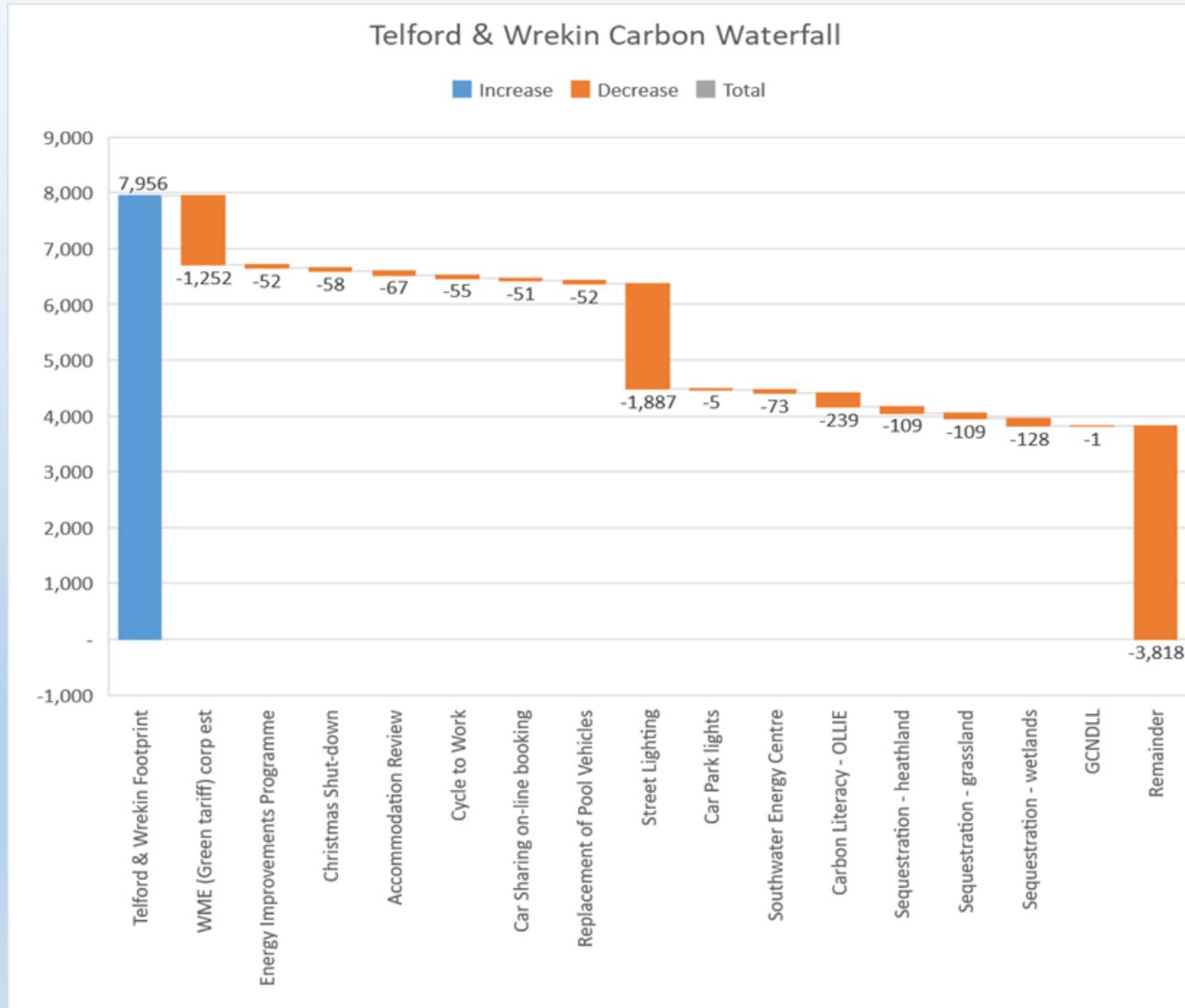


# Telford & Wrekin Council Carbon Emissions from 2005 – 2018 Trajectory



The Council has **ALREADY** reduced its carbon footprint by 44% from 14,173 tonnes CO<sub>2</sub> (2005) to 7,956 tonnes CO<sub>2</sub> (2018).

# Telford & Wrekin Council Waterfall



Need to reduce carbon emissions by further **7,956 tonnes CO<sub>2</sub>** to achieve carbon neutral by 2030

## Initial Action Plan:

Identified actions where carbon reductions can be identified will lead to a saving of **4,138 tonnes CO<sub>2</sub>**.

Leaving residual tonnes of **3,818 tonnes CO<sub>2</sub>** to be found





# Borough Partnership

A call to citizens, services, businesses, universities and other partners in the borough to help develop the Borough response – because we know this isn't a simple challenge the Council alone can 'fix', collective endeavour is vital.

Therefore:

- We have launched a webpage - Sustainable Telford and Wrekin:  
<http://sustainabletelfordandwrekin.co.uk/>
- And
- Established a Borough Partnership to drive climate change action Borough-wide



# How you have decided to help

The committee has indicated its wish to review every aspect of the current action plan. As the plan is organised in themes it may be helpful to review each theme in turn. The themes are:

- **Council Buildings**
- **Transport**
- **Housing**
- **Street Lighting**
- **Procurement**
- **Governance**
- **Energy**
- **Community**
- **Planning Policy**
- **Corporate**
- **Communications & training**
- **Land-use, biodiversity & carbon sequestration**



Thank you for  
Listening

Any questions?

