To present the key outcomes of the **Climate Change Baseline Study**/Trajectory Report for consideration and comment

#### Background

The council has been working with APSE (Association of Public Service Excellence) Energy to produce a climate change baseline study for the reporting year April 2019 to March 2020 (pre-covid).

The baseline study measures the carbon footprint for council operations which can be used as a benchmark to record current emissions and to track performance against further emissions. APSE have used this baseline to provide a trajectory report to include scenarios for decarbonisation of council operations and recommendations to do this. Further emissions reporting is most likely to use the LGA carbon calculator which we can access without cost.

A 2030 net zero scenario was selected for discussion purposes - many other councils have a 2030 target, although prior work was not necessarily carried out to inform this date. A climate emergency has not been declared nor a (net-zero) date set by the Council so we can use the information in this report to do so if we wish, although there is no legal requirement to set a date. In other words, this report will allow for an evidence-based discussion on what is the best course of action for OWBC bearing in mind the UK has a legally binding net zero target of 2050 and new interim targets to reduce emissions by 78% by 2035.

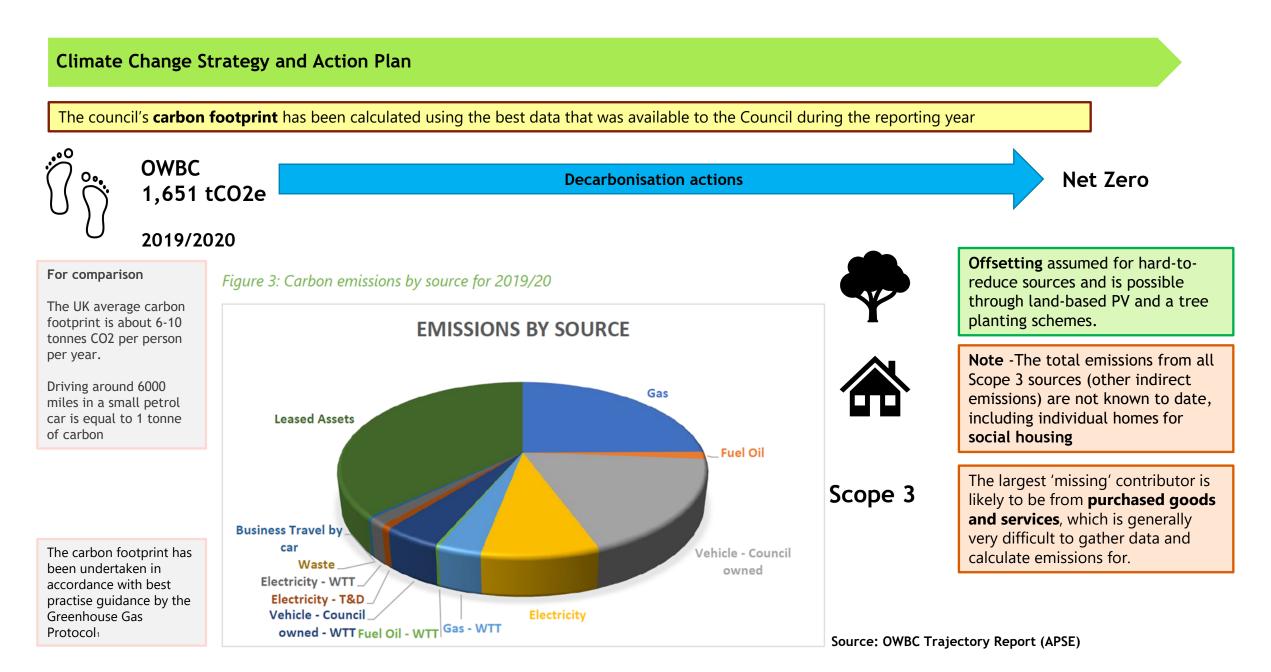
It should be noted that the recommendations in the report are somewhat generalised, and costings are approximations - this is a desktop study; the outcomes are informative but as stated in the report it recommends site specific investigations for actual costings and to clarify the actions required.

The carbon footprint is categorised into scopes, which cover:

- Scope 1 includes fuel burnt on site such as gas and emissions from vehicles
- Scope 2 indirect emissions associated with purchased electricity
- Scope 3 Other indirect emissions such as from leased assets and goods and services

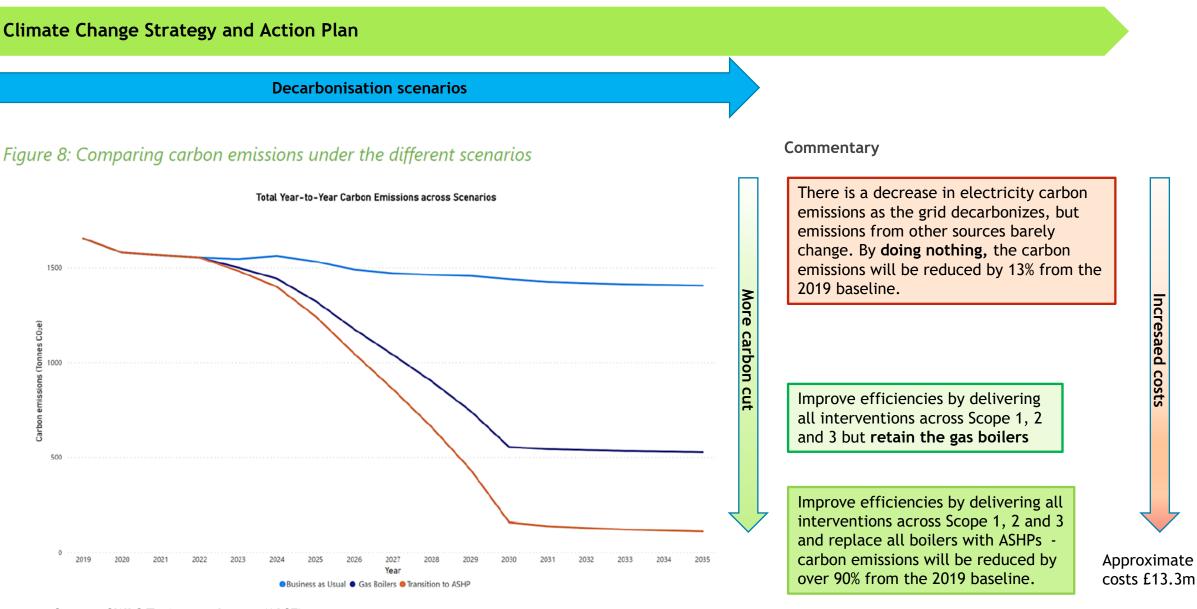


## **OWBC Decarbonisation of council operations** - APSE Carbon footprint calculation



### **Decarbonisation of council operations** - APSE Trajectory Report - decarbonisation pathways

Time Frame - to be considered



Source: OWBC Trajectory Report (APSE)

### **Next Steps/considerations**

The intention is to use this study to feed-in to a full review of our current Environment Strategy and Action Plan - the move from the existing Action Plan to the new one will have a stronger focus on climate change and reducing carbon emissions.

Factors to consider (from the report) when looking at the council's approach are as follows:

• Informing/training all in the authority (officers and members) about the importance of this agenda in their daily delivery of services, project work and investment decisions

- Avoiding the position where a single person or team is considered the sole area of responsibility/knowledge for this agenda
- Establishing an appropriate process for collating, analysing and reporting relevant data on performance and assets
- Prioritising activity to address decarbonisation address the biggest emitters and where most benefit can be gained first;
- Understanding which actions should be funded by revenue funding, reserves, PWLB or other funding (such as PSDS);
- Planning well in advance for external funding.

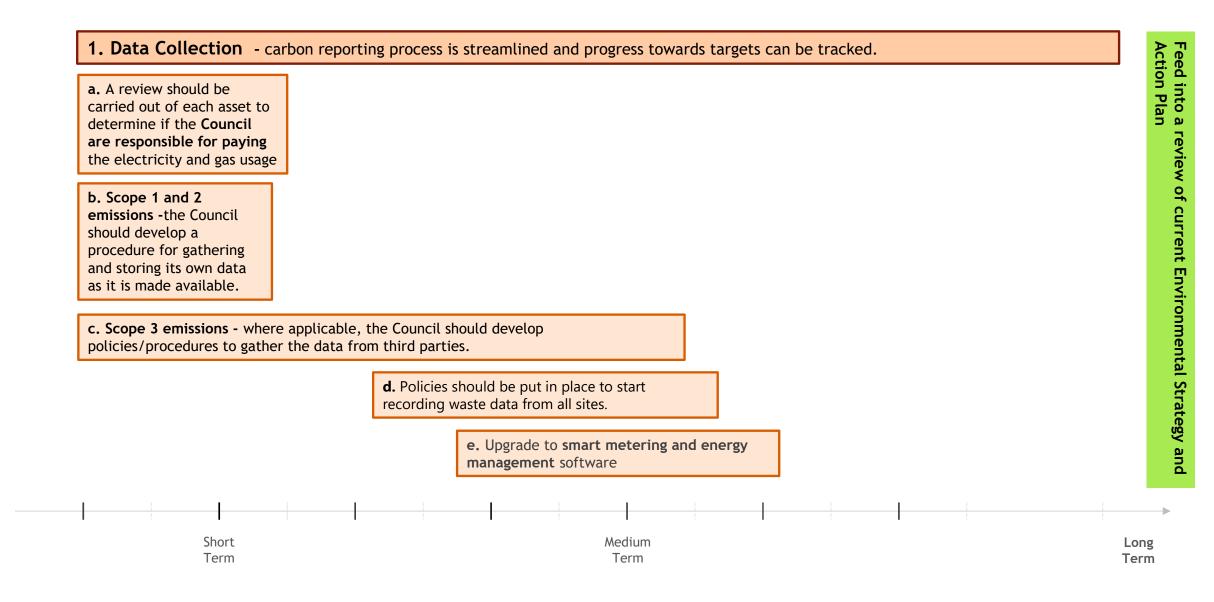
As previously stated, it is for the council to decide with regard setting a net-zero date and the best course of action for decarbonisation of council operations; and there are clearly factors outside the council's control such as government funding and technological advancements which have big impacts.

It should also be noted that the baseline study considers council operations and not the much larger carbon emissions associated with the wider borough which through our actions we have and can have an influence on. This will need to be considered when reviewing our current Environment Strategy and Action Plan, including any existing and future climate change collaboration work across the county.

**FYI** - the following slides provide an overview of recommendations from the trajectory report for decarbonisation of council operations which have additionally been categorised and set to an indicative timeframe.



### APSE Trajectory Report - summary recommendations for net zero and data collection

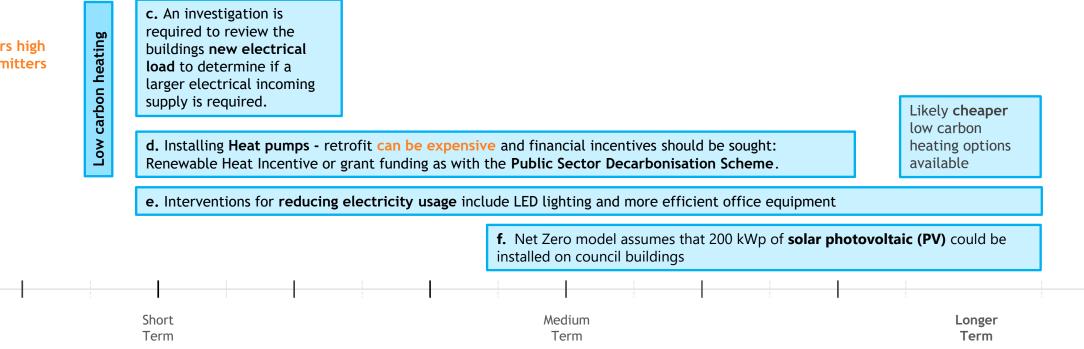


**2.** Buildings - the Council should be able to achieve significant carbon and cost savings by reviewing its maintenance policies to specify highly efficient plant and services, rather than replacing like-for-like.

**a.** It is recommended that a **detailed audit and feasibility study** is carried out for all assets to determine the site-specific initiatives.

**b.** For buildings it is recommended that the principles of the **energy hierarchy** are followed. The aim is to reduce operational carbon emissions by as much as financially and technologically possible and offset the emissions that are difficult to reduce. For example, insulating a building first to reduce size of the low carbon heating plant before renewables are considered.

Gas boilers high carbon emitters



# APSE Trajectory Report - Summary recommendations for net zero and vehicles and machinery

	•	ould be able to achieve significant carbon and cos vices, and low-emission vehicles, rather than repla	t savings by <b>reviewing its maintenance</b> acing like-for-like.
	<b>a.</b> It is recommended that a <b>detailed audi</b> <b>study</b> is carried out to determine the site-		ם ב
Fleet vehicles high carbon emitters	<b>b</b> . <b>Ultra-Low Emission Vehicles</b> (ULEV) are already commercially available to replace most passenger and delivery vehicles in the Council's fleet – trajectory modelled for transition to EV.		
	<b>c.</b> The market for ULEV alternatives for <b>agricultural machinery</b> (i.e., tractors and diggers) is still in its infancy. Therefore, to reduce emissions in this sector, the fuel utilised would be transitioned to biodiesel		of current
	<b>d.</b> Effective journey management and route optimisation for <b>refuse collection vehicles</b> could afford lower mileage which would fur transportation-related emissions of the Cou	(RCVs) rther reduce	ger and delivery vehicles in the Council's fleet –
	e. Council owned machinery transitioning to electrical alternatives		
	<ul> <li>f. A reduction in emissions associated with business mileage/travel could be stimulated by encouraging ride sharing, hybrid working) and transition to EV</li> <li>g. Installation of workplace EV chargepoints</li> </ul>		
	Short Term	Medium Term	Longer Term