



Cherwell

DISTRICT COUNCIL
NORTH OXFORDSHIRE

Greenhouse Gas Report

Reporting Year 2020 - 2021

Cherwell District Council

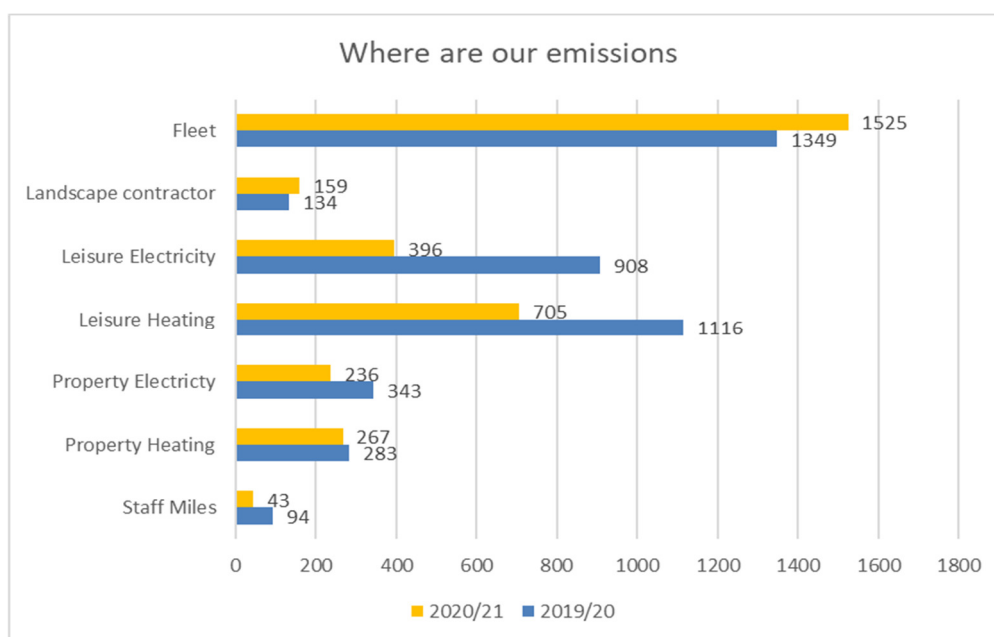
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1 Executive Summary

- 1.1. During **2020/21** Cherwell District Council reduced its carbon emissions by **22.5%** (**935 tonnes CO₂e**), from **4154** in **2019/20** tonnes CO₂e to **3219** tonnes CO₂e in **2020/21** This represents a **52.7%** reduction against our baseline of **2008/09**.
- 1.2. In 2020/21 792 tonnes CO₂e of our reduction was due to the electricity grid decarbonisation. The remaining 2223 tonnes CO₂e can mostly be attributed to the COVID lockdown and therefore emission levels may bounce back in the following years.



2 Context

- 2.1. Cherwell District Council provides services to residents, businesses and communities across the whole district. The following are the key service services are provided by the Council (but not an exhaustive list)
- leisure services
 - housing
 - planning
 - landscape and ground maintenance
 - public convenience
 - waste collection.
- 2.2. The Council either provides these services directly or commissions them from other organisations. Most of these services are statutory – things we are obliged by law to do.

3 Reporting Period

- 3.1. This report covers GHG emissions from **April 2020** to **March 2021** with comparisons to previous years

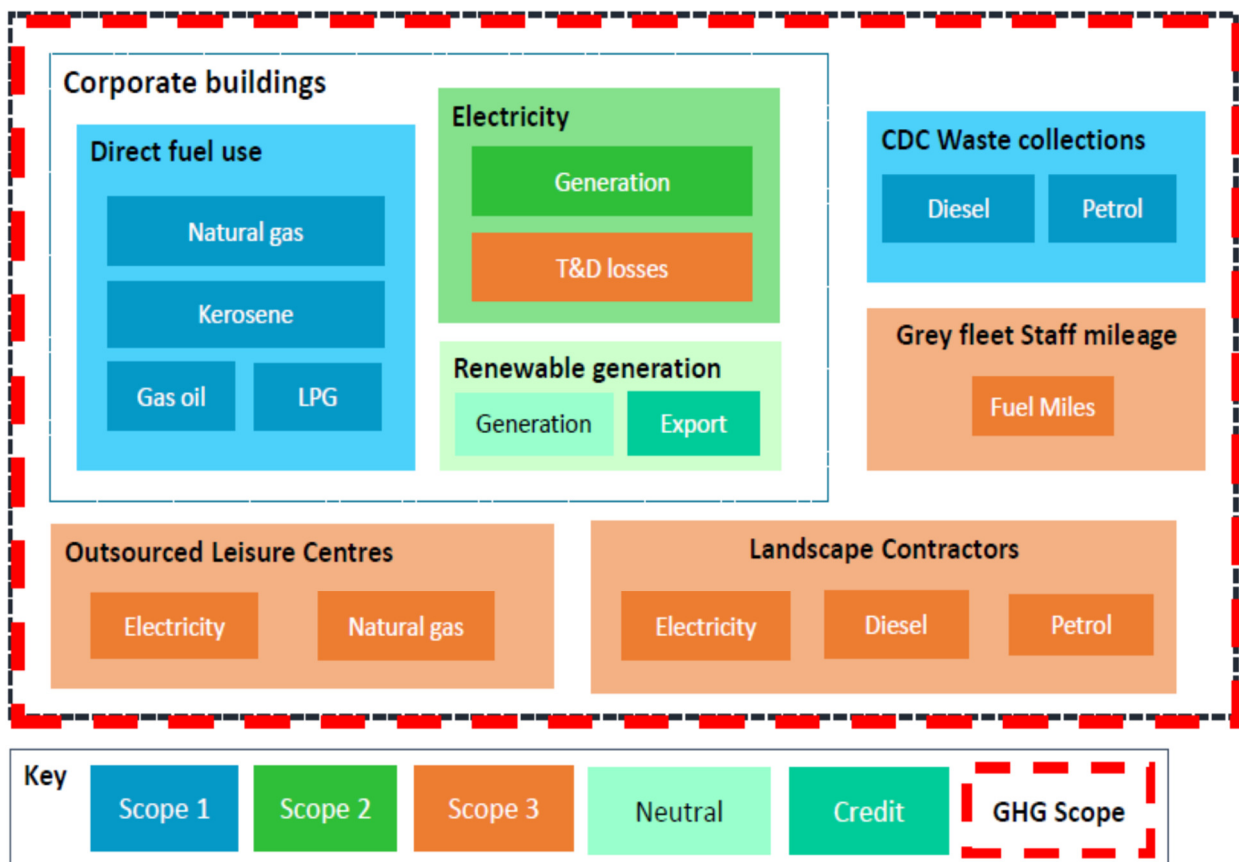
4 Introduction, boundary and conversion factors

- 4.1. Each year, Cherwell District Council publishes details of its greenhouse gas (GHG) emissions in accordance with the guidance published by the Department of Business, Energy and Industrial Strategy (BEIS).
- 4.2. The Council is committed to improving our GHG reporting in line with the latest BEIS guidance. We will be auditing our data in **2020/21**.
- 4.3. **Figure 1** shows the scope of our reported GHG emissions boundary. The council reports on emissions from its:
 - Corporate buildings, public conveniences, waste collection fleet & business mileage
 - Outsourced leisure centres
 - Outsourced landscape service.

These have historically been included in our carbon footprint.

- 4.4. In **July 2019** the council committed to becoming carbon neutral by **2030** for all its reported emission sources, which include corporate and contractor emissions.
- 4.5. The carbon factor methodology applied are the **2020** advanced carbon factors for the emissions generated in the financial year **2020-21**, which can be found at [Greenhouse gas reporting: conversion factors 2020 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/guidance/greenhouse-gas-reporting-conversion-factors-2020)

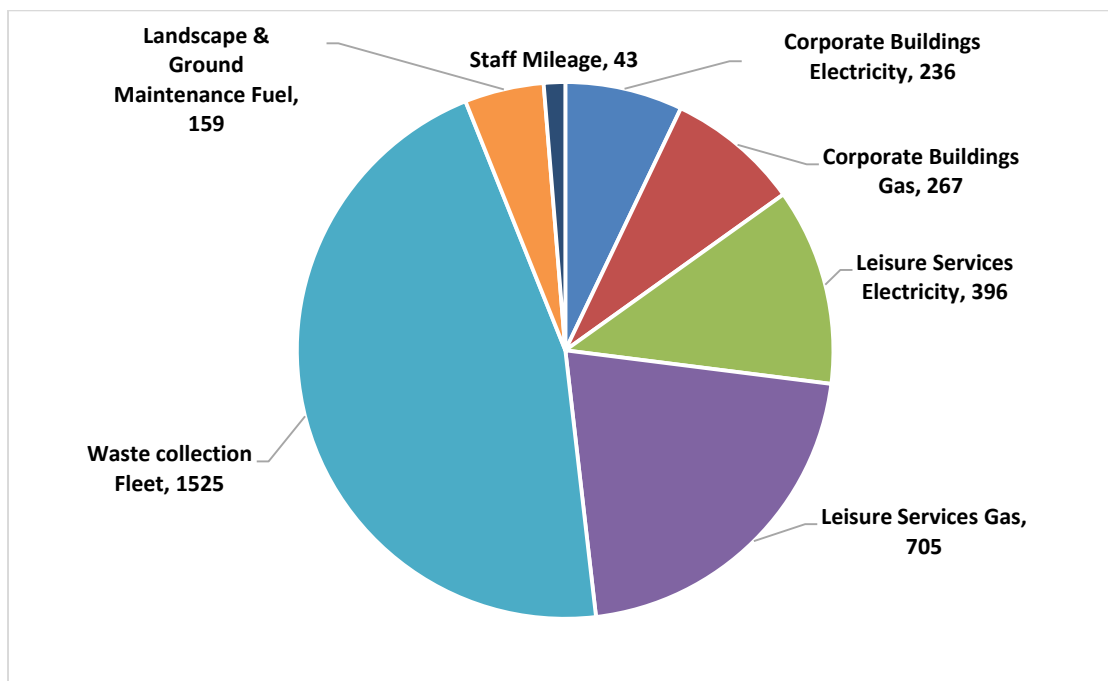
Figure 1: CDC GHG Emissions Boundary



5 Greenhouse Gas (GHG Emissions) 2020/21

- 5.1. **Figure 2** shows that for **2020/21** gross emissions from Cherwell District Council were **3219** tonnes of CO₂ equivalent (CO₂e) split across the six service areas and fuel types. This includes offsetting from solar exports in corporate and leisure centre buildings (as highlighted in Table 1).

Figure 2: Total GHG emissions breakdown per sector and fuel type (tonnes CO₂e)



6 Change from Previous Year

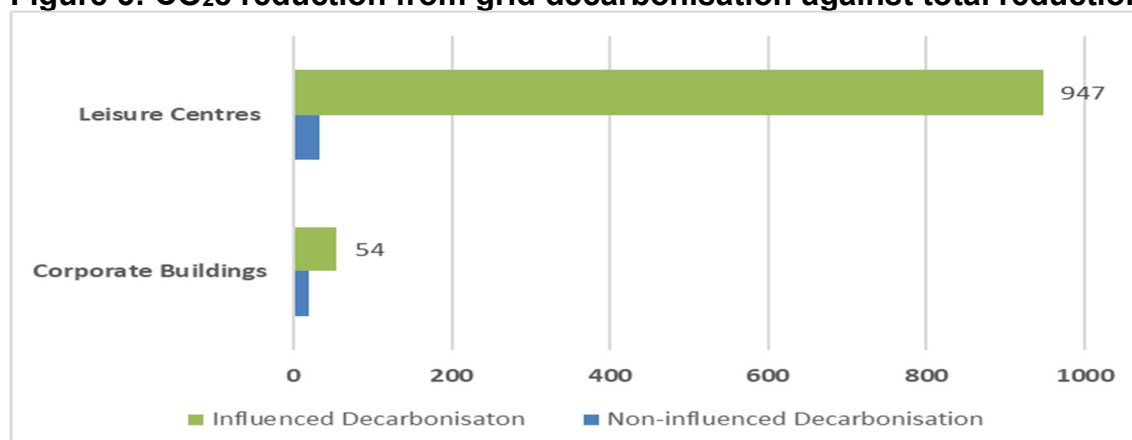
- 6.1. Total emissions in **2020/21** fell from **4,154** tonnes of CO₂e to **3219** tonnes of CO₂e, a reduction of **22.5%** (**935** tonnes of CO₂e).
- Emissions from **corporate buildings, public conveniences, waste collection fleet & business mileage** fell from **2209** tonnes of CO₂e to **1983** tonnes of CO₂e, a reduction of **2.3%**. This includes offsets from Solar PV exports.
 - Emissions from **outsourced leisure centres and outsourced landscape service** fell from **2125** tonnes of CO₂e to **1236** tonnes of CO₂e, a reduction of **41.8%**. This includes offsets from Solar PV exports.
- 6.2. **Table 1** below shows the comparison of emissions in **2020/21** against **2019/20**.

Table 1: Emissions Comparison 2019/20 and 2020/21 (tonnes CO₂e)

2019/20 and 2020/21 Comparison			
	2019/20	2020/21	Reduction
Corporate Buildings	622	494	-20.5%
Public Conveniences	5	10	105.5%
Waste collection Fleet	1,349	1,525	13.1%
Staff Mileage	94	43	-54.1%
Solar Export Corporate (offset)	- 40	- 89	
conveniences, waste collection fleet & business mileage	2,029	1,983	2.3%
Leisure Services	2,024	1,101	-45.6%
Landscape & Ground Maintenance	134	159	18.8%
Solar Export Leisure Centre (offset)	- 33	24	
Contractors	2,125	1,236	-41.8%
Total Emissions	4,154	3,219	-22.5%

- 6.3. Non-influenced **decarbonisation** (due to electricity grid **decarbonisation** and annual changes to carbon factors) accounted for **51** tonnes CO₂e, **5.5%** of total reduction, with influenced **decarbonisation** (due to changes in consumption) accounting for the remainder.
- 6.4. Impact of **COVID** on ventilation - The **CV19** restrictions to working arrangements and subsequent guidance on ventilation has subsequently meant that realistic comparison with previous years is not appropriate at this stage.
- 6.5. Although emissions are expected to bounce back after the COVID restrictions end; we do expect some emissions to rise and some to continue to fall.
- As building reopen fully gas consumption is likely to increase from the pre-COVID levels due to legislative changes in air handling.
 - Electricity from property is likely to remain lower than pre-COVID levels due to a decrease in property occupation by staff.
 - Emissions from electricity will continue to reduce from grid decarbonisation.
 - Staff mileage may remain lower than pre-COVID levels due to the use of Teams meetings.

Figure 3: CO₂e reduction from grid decarbonisation against total reduction.



- 6.6. Gas consumption in **2020/21** increased in line with expectations due to weather differences between **2019/20** and **2020/21**. Cherwell District Council will be investigating the option to install automatic meter readers to improve the accuracy of gas consumption data.

7. Comparison against baseline year and reduction target

Cherwell District Council track emissions against the baseline year of **2008/09**.

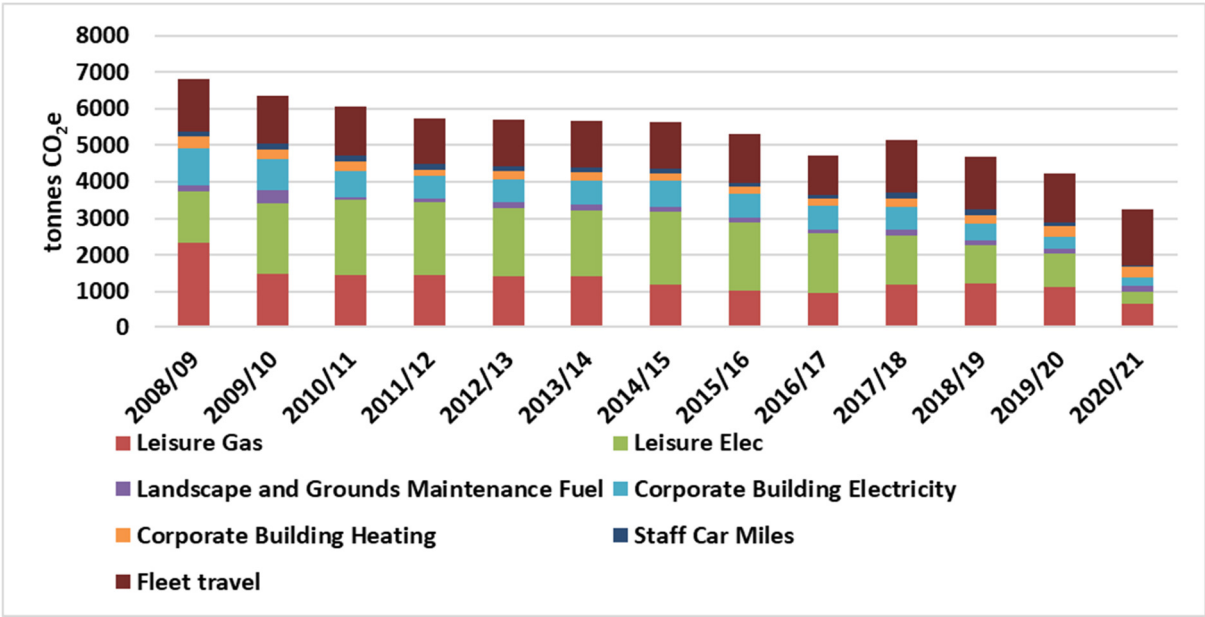
- 7.1. **Total emissions** were **6,804** tonnes of CO₂e in 2008/09 and **3,219** tonnes CO₂e in **2020/21**. This represents a decrease of **3,585** tonnes of CO₂e or **52.7%** since the baseline year, equivalent to an average reduction of **4.4%** per year.
- Emissions from **corporate buildings, public conveniences, waste collection fleet & business mileage** have reduced by **28.2%** since **2008/09**, an average reduction of **2.4%** per year.
 - Emissions from **outsourced leisure centres and outsourced landscape service** have reduced by **67.8%** since **2008/09**, an average reduction of **5.17%** per year.

Table 2: Emissions Comparison 2008/09 and 2020/21 (tonnes CO₂e)

2008/09 and 2020/21 Comparison			
	2008/09	2020/21	Reduction
Corporate Buildings	1,278	494	-61.4%
Public Conveniences	37	10	-73.3%
Waste collection Fleet	1,419	1,525	7.5%
Staff Mileage	154	43	-72.1%
Solar Export Corporate (offset)	-	89	
conveniences, waste collection fleet & business mileage	2,888	1,983	-31.3%
Leisure Services	3,748	1,101	-70.6%
Landscape & Ground Maintenance	168	159	-5.7%
Solar Export Leisure Centre (offset)	-	24	
Total - Leisure Centres & Landscape Co	3,916	1,236	-68.4%
Total Emissions	6,804	3,219	52.7%

- 7.2. **Figure 4** below shows carbon emissions from the baseline year **2008/09** to **2020/21** with a breakdown of consumption by sector and fuel type.

Figure 4: Annual carbon emissions by sector from baseline year 2008-2009



8 Measurement, data quality, methodology and refinements

- 8.1. Cherwell District Council collects the data from property invoices, staff millage claims and fleet travel records.

Annex A - Operational Scope breakdown

- Central Offices (Scopes 1 and 2)
- Operational Depots (Scope 1 and 2)
- EV Fleet (Scope 2)
- Fleet (Scope 1)
- Business miles (including cycling) - corporate estate and activities (Scope 3)
- Transmission and Distribution (Scope 3)
- Vacant properties - (in Scope 3)
- Outsourced Leisure Centre's (Scope3)
- Landscape Contractors (Scope 3)

Not included in current reporting and reasoning

We do not currently include the following in our reporting for a variety of reasons but will annually review this situation:

- Water - Scope 3 - currently no reliable data available
- Supply Chain - Scope 3 – no data available
- Staff Commuting to work - Scope 3 - no data available
- Business mileage from public transport and walking - Scope 3 - currently no data available.

Annex B – Detailed Breakdown of emissions from 2008/09 to 2020/21

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