



Cherwell

DISTRICT COUNCIL
NORTH OXFORDSHIRE

Greenhouse Gas Report

Reporting Year 2021 - 2022

Cherwell District Council

Date: September 2022
Owner: Climate Action Team

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1 Executive Summary

- 1.1. During **2021/22** Cherwell District Council increased its carbon emissions by **21.2%** (**697 tonnes CO₂e**), from **3,291 tonnes CO₂e** in **2020/21** to **3,988 tonnes CO₂e** in **2021/22**. This represents a **41.4%** reduction against our baseline of **2008/09**. This includes offsetting from solar exports.

Although there was a 21.2% increase in emissions in 2021/22 as compared to the previous year, there was an overall reduction of 4.2% since 2019/20 (Pre covid). This equates to an average reduction of 2.1% annually in the last two years.

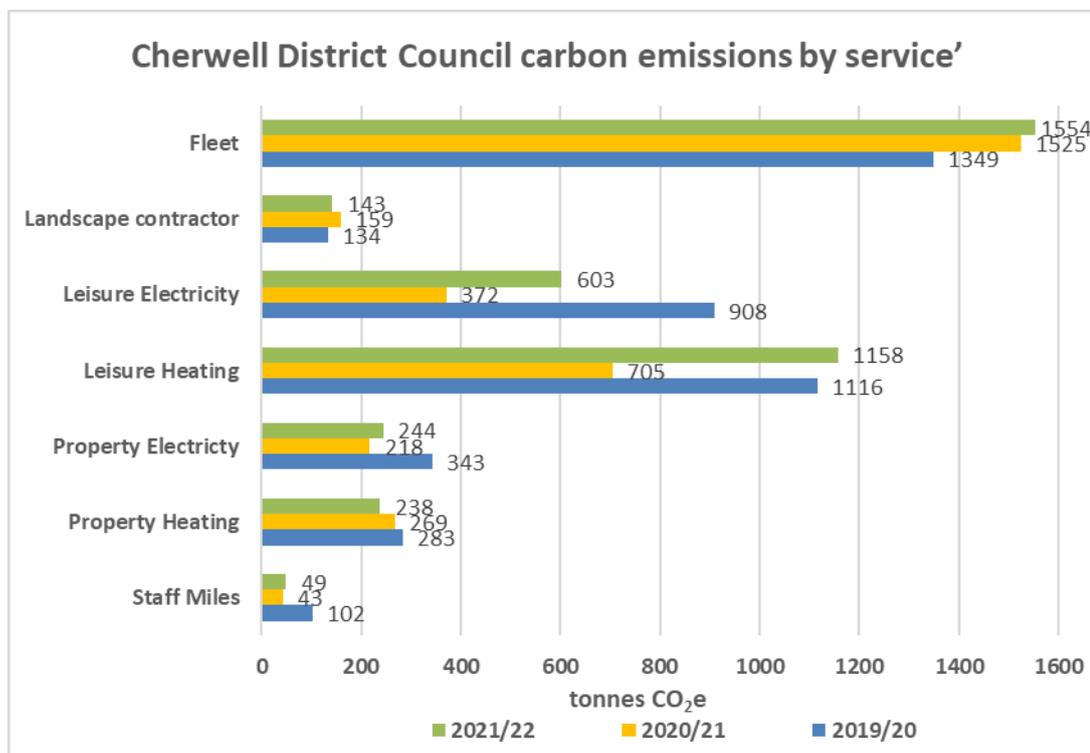
It should be noted that strict Covid lockdown in 2020/21 resulted in a significant reduction in emissions due to building closures and other reductions in activities and therefore cannot be attributed fully to carbon reduction progress. In 2021/22 the emissions have increased as buildings and activities return to near normal operation.

In addition two additional leisure centres were included in 2021/22 resulting in an additional 38 tonnes CO₂e.

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.

In 2021/22 electricity grid decarbonisation reduced tonnes CO₂e from electricity by 62.9.

Figure 1 below shows comparison of tonnes of CO₂ split by business sector during 2020/21 and 2021/22 (these figures do not include carbon offsetting)



2 Context

- 2.1. Cherwell District Council provides services to residents, businesses and communities across the whole county. 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 2021** to **March 2022** with comparisons to previous years

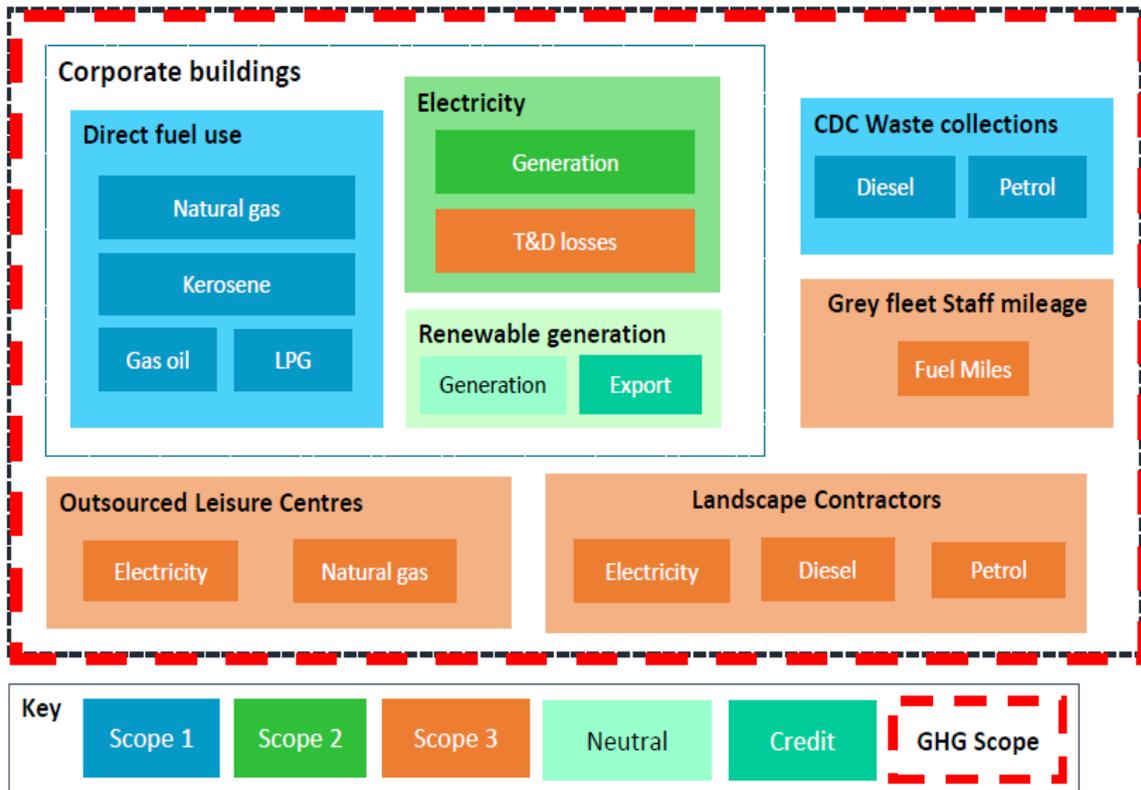
4 Introduction, boundary and conversion factors

- 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.
- 4.3. **Figure 2** 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 **2021** advanced carbon factors for the emissions generated in the financial year **2021-22** , which can be found at [Greenhouse gas reporting: conversion factors 2021 - GOV.UK \(www.gov.uk\)](https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2021)

Figure 2: CDC GHG Emissions Boundary

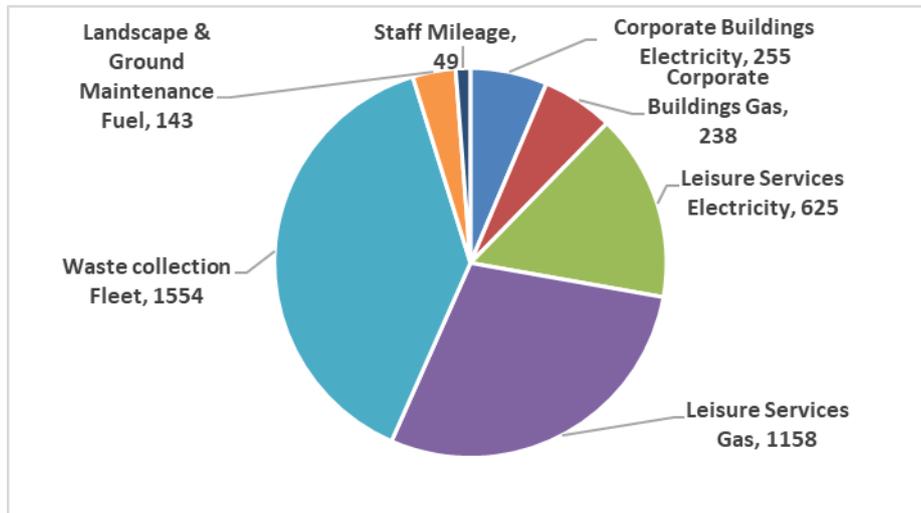


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Greenhouse Gas (GHG Emissions) 2021/22

5.1. **Figure 3** shows that for **2021/22** gross emissions from Cherwell District Council were **3988** 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 3: Total GHG emissions breakdown per sector and fuel type (tonnes CO₂e)



6 Change from Previous Year

6.1. Total emissions in **2021/22** increased from **3,291** tonnes of CO_{2e} to **3,988** tonnes of CO_{2e}, an increase of **21.2%** (**697** tonnes of CO_{2e}).

- Emissions from **corporate buildings, public conveniences, waste collection fleet & business mileage** increased from **2054** tonnes of CO_{2e} in 2020/21 to **2,084** tonnes of CO_{2e} in 2021/22, an increase of **1.5%**. This includes offsets from Solar PV exports.
- Emissions from **outsourced leisure centres and outsourced landscape service** increased from **1,236** tonnes of CO_{2e} in 2020/21 to **1,903** tonnes of CO_{2e} in 2021/22, an increase of **54.0%**. This includes offsets from Solar PV exports. Two additional Leisure Centres have been included in this years calculations resulting in an additions 109 tonnes CO_{2e}.

6.2. **Table 1** below shows the comparison of emissions in **2021/22** against **2020/21**.

Table 1: Emissions Comparison 2020/21 and 2021/22 (tonnes CO_{2e})

2020/21 and 2021/22 Comparison			
	2020/21	2021/22	Reduction
Corporate Buildings	495	484	-2.3%
Public Conveniences	10	9	-5.4%
Waste collection Fleet	1,525	1,554	1.8%
Staff Mileage	43	49	13.3%
Solar Export Corporate (offset)	- 19	- 11	
Total - Corporate building, public	2,054	2,084	1.5%
Leisure Services	1,101	1,783	61.9%
Landscape & Ground Maintenance	159	143	-10.1%
Solar Export Leisure Centre (offset)	- 24	- 22	
Total - Leisure Services & Landscape	1,236	1,903	54.0%
Total Emissions	3,290	3,988	21.2%

Note: Last years solar export corporate (offsetting) data has been amended this year due to an error in a meter reading last year.

- 6.3. Non-influenced **decarbonisation** (due to electricity grid **decarbonisation** and annual changes to carbon factors) accounted for a reduction in carbon of **63** tonnes CO_{2e}.
- 6.4. Gas consumption in **2021/22** was not expected to fall due to weather effects. However, corporate gas consumption decreased by 31 tonnes of CO_{2e}. Leisure centre gas increased due to the re-opening of sites after the lifting of COVID restrictions.

7 Comparison against baseline year and reduction target

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

7.1. **Total emissions** were **6,804** tonnes of CO₂e in 2008/09 and **3,988** tonnes CO₂e in **2021/22**. This represents a decrease of **2,816** tonnes of CO₂e or **41.4%** since the baseline year, equivalent to an average reduction of **3.2%** per year.

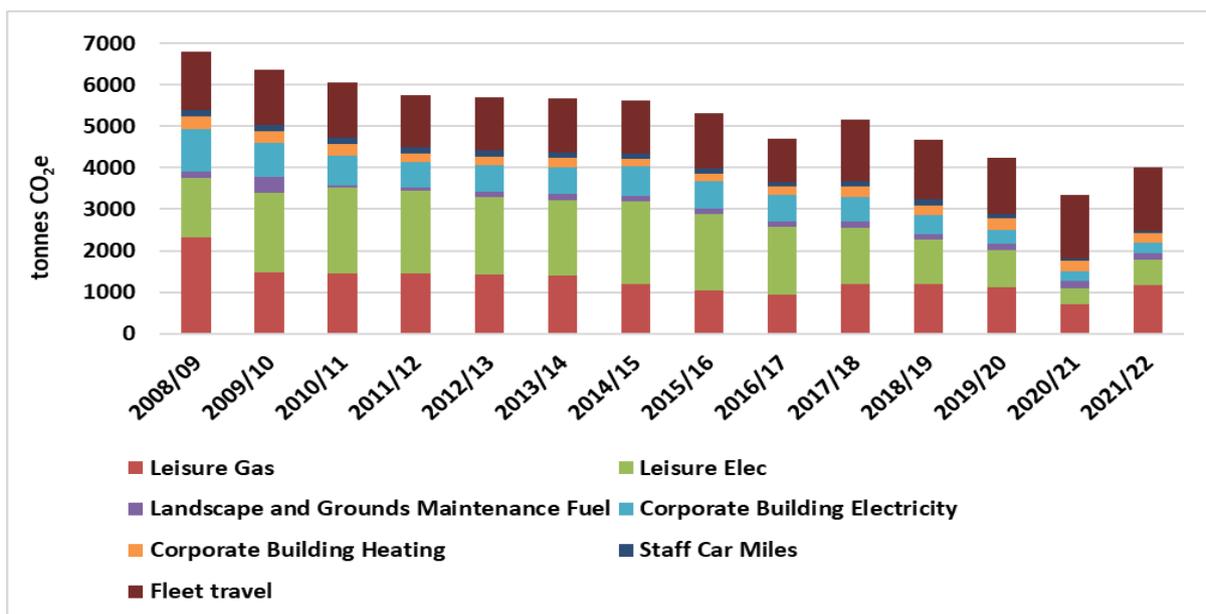
- Emissions from **corporate buildings, public conveniences, waste collection fleet & business mileage** have reduced by **27.5%** since **2008/09**, an average reduction of **2.1%** per year.
- Emissions from **outsourced leisure centres and outsourced landscape service** have reduced by **50.8%** since **2008/09**, an average reduction of **3.9%** per year.

Table 2: Emissions Comparison 2008/09 and 2021/22 (tonnes CO₂e)

2008/09 and 2021/22 Comparison			
	2008/09	2021/22	Reduction
Corporate Buildings	1,278	484	-62.1%
Public Conveniences	37	9	-75.8%
Waste collection Fleet	1,419	1,554	9.5%
Staff Mileage	154	49	-68.4%
Solar Export Corporate (offset)	-	11	
Total - Corporate building, public	2,888	2,084	-27.8%
Leisure Services	3,748	1,783	-52.4%
Landscape & Ground Maintenance	168	143	-15.3%
Solar Export Leisure Centre (offset)	-	22	
Total - Leisure Centres & Landscape Cor	3,916	1,903	-51.4%
Total Emissions	6,804	3,988	-70.6%

7.2. **Figure 4** below shows carbon emissions from the baseline year **2008/09** to **2021/22** 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 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.

