

Greenhouse Gas Emissions Report 2024-25

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Introduction

Blaby District Council (BDC) is committed to measuring and reporting its environmental performance to better understand its impacts and to monitor progress towards the targets in its Climate Change Strategy 2021. The 2024-25 Greenhouse Gas Report forms part of BDC's 2030 Net Zero¹ Action Plan and its commitment to become a Net Zero Council for its own operational emissions by 2030.

This report focusses on BDC's own operational greenhouse gas (GHG) emissions for the 2024-25 reporting period and the Council's 2030 net zero ambition, which includes emissions from the Council's buildings, fleet vehicles, business travel, water and waste.

The full scope of emissions included in this report are provided in Appendix 1. The Council has used Local Partnerships Carbon Accounting Tool which follows the Government's Environmental Reporting Guidelines, published by BEIS and DEFRA (2019), alongside international best practice guidance from the Greenhouse Gas Protocol. In accordance with Government recommendations, this report is published on the Council's website.

¹ **Net zero** refers to the point when greenhouse gas emissions being emitted into the atmosphere are balanced with their removal, meaning there is no overall addition to atmospheric levels.

Executive Summary

Since reporting began in 2019 there has been a 78% drop in the council's greenhouse gas emissions as a result of our interventions. Greenhouse gas emissions for the year 2024-25 are **175.9tCO₂e**. This is a **decrease** of 1.6% on the previous year's total.

Diesel use decreased by 3.6% and HVO use decreased by 2.3%. The addition of a resident's food waste collection service in 2026 will increase the amount of emissions arising from HVO usage due to an increase in vehicles and number of rounds. However the continued switch from Diesel to HVO should lead to a reduction in fleet emissions overall.

Emissions arising from gas usage have slightly increased, while emissions arising from business mileage have decreased slightly. An increase in the amount of natural gas used for heating the main offices accounted for approximately 500kgCO₂e.

The following focus areas provide opportunities for further carbon reduction:

1. Decarbonisation of gas heating systems.

Reduce consumption of natural gas by improving efficiency (heating system additives), improving heating controls to reduce waste and switching to air source heat pumps where feasible.

2. Fleet fuel use.

Reducing fleet reliance on diesel through a combination of HVO and switching to battery electric vehicles.

3. Business mileage reduction.

There has been a 6.6% decrease (2.83t) in business mileage from the previous year. Further reductions could be made by reducing business journeys, switching to electric vehicles or by increasing active travel & use of public transport.

4. Energy use.

Explore measures to reduce energy consumption and increase efficiency across the organisation for both gas and electricity through behaviour change.

5. Investment in renewable energy

Explore opportunities for further rooftop solar on council assets or investment within the district.

Organisation Information

Blaby District Council
Council Offices,
Desford Road,
Narborough
LE19 2EP

Reporting Period

1st April 2024 to 31st March 2025

Organisational Boundary and operational Scope

The Council has followed the Government's Environmental Reporting Guidelines, published by BEIS and DEFRA (2019), alongside international best practice guidance from the Greenhouse Gas Protocol. The organisational boundary for reporting the Council's GHG emissions, for its own operations and activities, is Operational Control.

The operational scope includes the direct emissions from building heating and fleet (scope 1) and purchased electricity for buildings (scope 2) resulting from the owned and leased assets and operations where the Council is in operational control and is responsible for the purchase of energy or fuel. Some scope 3 emissions are also included: business mileage (grey fleet) and water supply & treatment.

All greenhouse gas emissions are expressed as tonnes of carbon dioxide equivalent (tCO₂e). See Appendix 1 for more information about scopes and sources of emissions.

Baseline Emissions and Targets

The adopted baseline year is 2018-19. Where there are relevant significant changes in the factors that informed the calculation of the base year emissions, such as the sale of council buildings, then the emissions for the base year and the year prior to the reporting year will be recalculated. The 2030 Net Zero Council Action Plan includes a commitment to reduce carbon emissions from the Council's own estate and operations to net zero by 2030.

Calculation Method

The Council has followed the Government's Environmental Reporting Guidelines, published by BEIS and DEFRA (2019), alongside international best practice guidance from the Greenhouse Gas Protocol.

2024-25 Greenhouse Gas Emissions

	Sector	2018/19 baseline	2024/25	% Change from 2023/24
Scope 1 (Direct emissions e.g. gas boilers, owned transport)	Buildings	80.9	84.7	UP 0.5%
Scope 1	Authority Fleet	603.1	44.7	DOWN 2.3%
Sub-total		683.9	129.4	DOWN 0.4%
Scope 2 (Indirect e.g. purchased electricity)	Electricity	96.2	61.2	0%
Sub-total		96.2	61.2	
Scope 3 (other indirect e.g. business travel, water)	Staff Travel	46.1	40.7	DOWN 6.6%
Scope 3	T&D losses	8.2	5.41	UP 2%
Scope 3	Water	0.9	0.34	N/A
Sub-total		55.2	46.5	UP 4.8%
Total Gross Emissions		835.3	242.5	
	Renewable electricity tariff		-61.2	
Total Market Based Emissions		835.3	175.9	DOWN 1.6%

Figure 1. BDC 2024-25 GHG emissions, with a comparison to the baseline year

2024/25 GHG Emissions by Type (tCO2e)

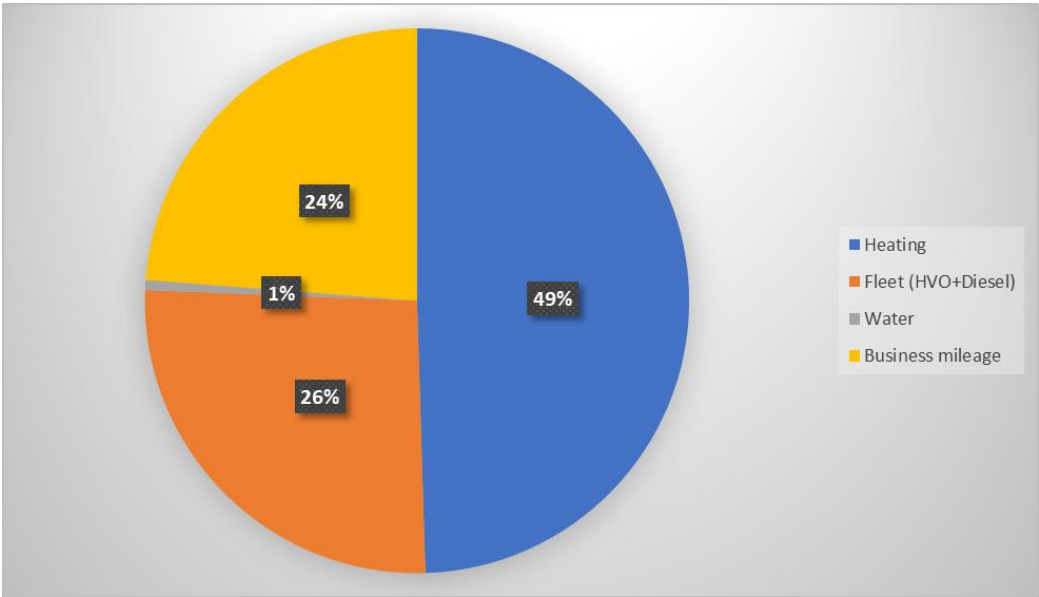


Figure 2. BDC 2024/25 GHG emissions by source

Performance Against Baseline and previous years

Blaby District Council net greenhouse gas emissions have reduced by 77.8% compared to the baseline year 2018/19. This has been achieved primarily by switching from diesel to HVO fuel for most of our fleet vehicles.

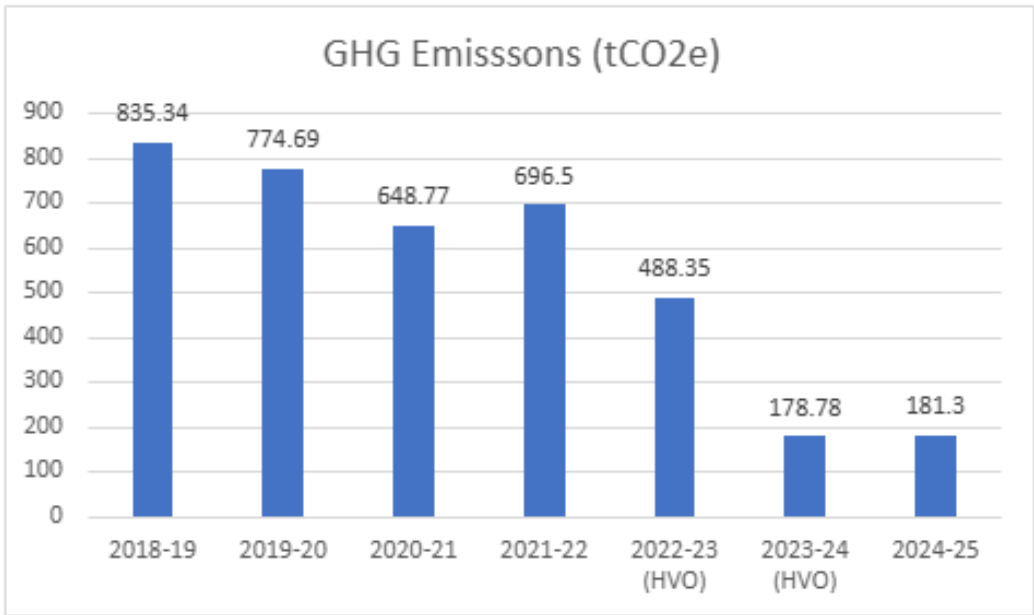
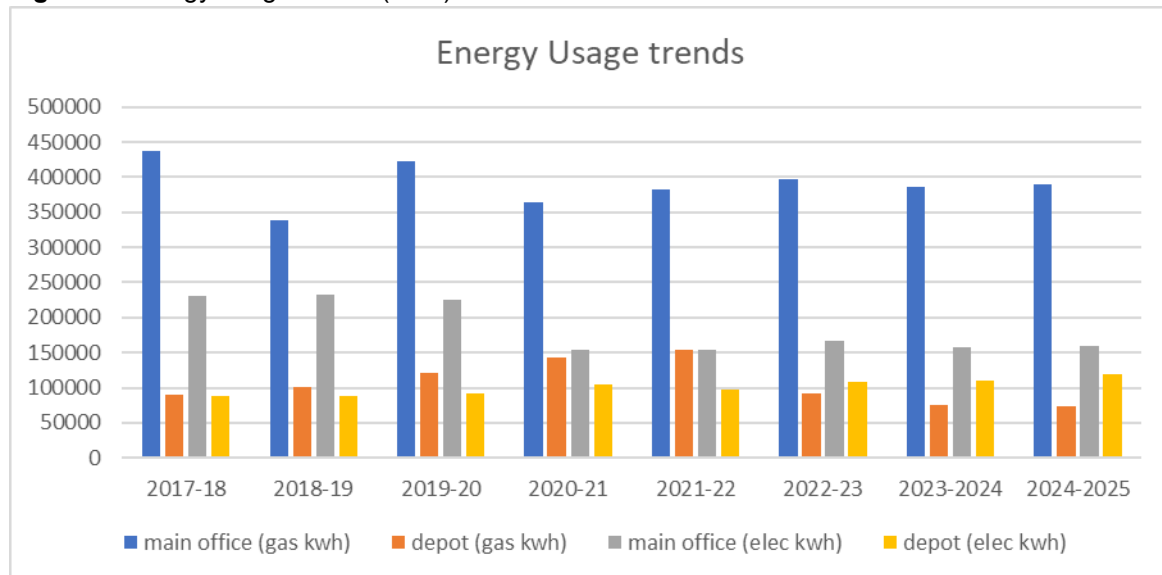


Figure 3. GHG Emissions compared to baseline and preceding years.

Building Heating and Electricity (Scope 1 and 2 emissions)

Figure 4. Energy usage trends (kWh)



Energy usage been fairly consistent over the last 6 years. Depot gas use has decreased year on year for the last 4 years while electricity usage has also increased for the last 3 consecutive years.

At the main offices gas use has increased slightly over the last 4 years while electricity use has decreased in the last 5 years. This is most likely a result of switching to LED lighting in 2020/21.

It is therefore a key action to improve the monitoring of our energy use to determine why these increases are occurring and if energy can be conserved. Improved energy monitoring and moving to low carbon heating at the Depot could further reduce emissions from energy use.

Business Travel (Scope 3 emissions)

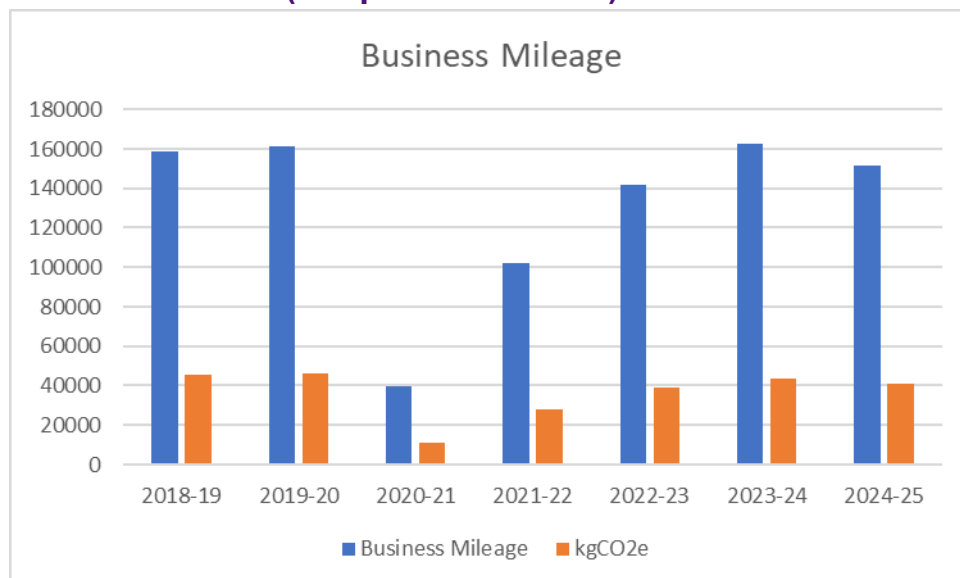


Figure 5. Business travel and associated emissions (kgCO2e) per year

2024/25 marks the first year since Covid that we have seen a decrease in business mileage. It is imperative that the Council takes steps to further decarbonise business travel over the coming years to maintain this trend.

Market-Based Emissions and Green Tariff

The council changed its electricity contract to a green tariff in 2021/22 which means that all electricity used now comes from renewable energy sources. In recognition of the council's positive step in having a green energy tariff and supporting national decarbonisation of the electricity grid by increasing demand for low-carbon energy, the GHG report considers the council's emissions following a market-based approach to reporting emissions. A market-based approach enables the council to directly reflect the emissions associated with the electricity it purchases for its operations. Following this approach, the council's electricity emissions from 2024/25 (61.24tCO₂e) are considered zero due to the electricity being produced by renewable sources. Despite this it remains an absolute priority for the council to minimise its electricity use as far as possible and generate renewable energy at a local level through expansion of rooftop solar.

Out of Scope Emissions

Blaby District Council acknowledges the importance of acting to reduce its wider scope 3 emissions. This includes carbon associated with the council's supply chain, leased assets, employee commuting and investments. It also includes those emissions that arise from assets and services not operated by the council and have limited influence over. During 2020/21 the council commissioned a study into its purchased goods and services scope 3 emissions. This is the first step into quantifying what is a highly complex and subjective area and will need further development. The council provided detailed extracts from its finance system covering, suppliers, purchase orders, invoices and journaled transactions. Artificial intelligence was used to extract the product data from the descriptions. This was then used to calculate the carbon footprint of the matched products using MRIO data from CenSA (now University of Leeds as used by DEFRA).

Future action

The Council recognises that further action is required to achieve our aims. The Council 2030 Net Zero Action Plan sets out several actions either already in delivery or in design to ensure that we reduce our greenhouse gas emissions to net zero by 2030.

- Electrification of the depot and vehicle fleet
- Decarbonising business travel
- Expansion of rooftop solar PV
- Battery storage
- De-carbonising heat.
- Offsetting (last resort)
- Address wider scope 3 emissions

Appendix 1 - Operational Scopes

The Council has measured scope 1, 2 and some of scope 3 emissions within the GHG Report, where accurate and annual data is available. The different scopes of emissions are described below:

Scope 1 (direct emissions) Activities owned or controlled by the Council that release emissions straight into the atmosphere. Examples include emissions from owned or controlled boilers and vehicles.

Scope 1	Details
Council combustion e.g. gas, solid and liquid fuels in boiler plant	All fuel used in BDC owned and leased buildings.
Owned and leased transport	Fuel consumption included where BDC pays for fuel.
Fugitive emissions	Excluded due to lack of good quality information and availability of data on refrigeration and air conditioning equipment

Scope 2 (energy indirect) Emissions being released into the atmosphere associated with the consumption of purchased electricity, heat, steam and cooling. These are indirect emissions that are a consequence of the Council's activities, but which occur at sources not owned or controlled.

Scope 2	Details
Purchased electricity	All electricity used in all BDC owned and leased buildings where we have operational control and are responsible for the bills.

Scope 3 (other indirect) Emissions are a consequence of the Council's actions, which occur at sources which are not owned or controlled. Examples of scope 3 emissions include business travel (e.g. use of staff vehicles or public transport), employee commuting, and purchased goods and services.

Scope 3	Details
T&D Losses	Transport and distribution emissions from energy, gas, liquid and solid fuels consumption have been excluded e.g. diesel, LPG, coal, electricity and natural gas
Business travel	Business travel included except for public transport.
Employee commuting	Excluded due to lack of good quality information and availability of data.
Working from home	Excluded due to lack of good quality information and availability of data.
Material use	Excluded due to lack of good quality information and availability of data.
Water Supply and treatment	Included
Waste generated in operations	Excluded due to lack of good quality information and availability of data.
Purchased goods and services	Excluded due to lack of good quality information and availability of data.
Downstream leased assets	Excluded due to lack of financial or operational control (Leisure Centres)

Scope 3	Details
Investments	Excluded due to lack of good quality information and availability of data.