

Ashby Town Council Carbon Audit

Scope 1 & 2 findings

Introduction

- A carbon audit is used to assess & manage CO₂ emissions
- Tool used was created by Local Partnerships LLP for local authorities
- Emissions are split into 3 sections (scopes);
 - Scope 1 – Direct emissions
 - Scope 2 – Indirect emissions from where energy used is produced
 - Scope 3 – Indirect emissions not produced from town council activity but indirectly from value chain
- Audit used data for 2022-23 financial year



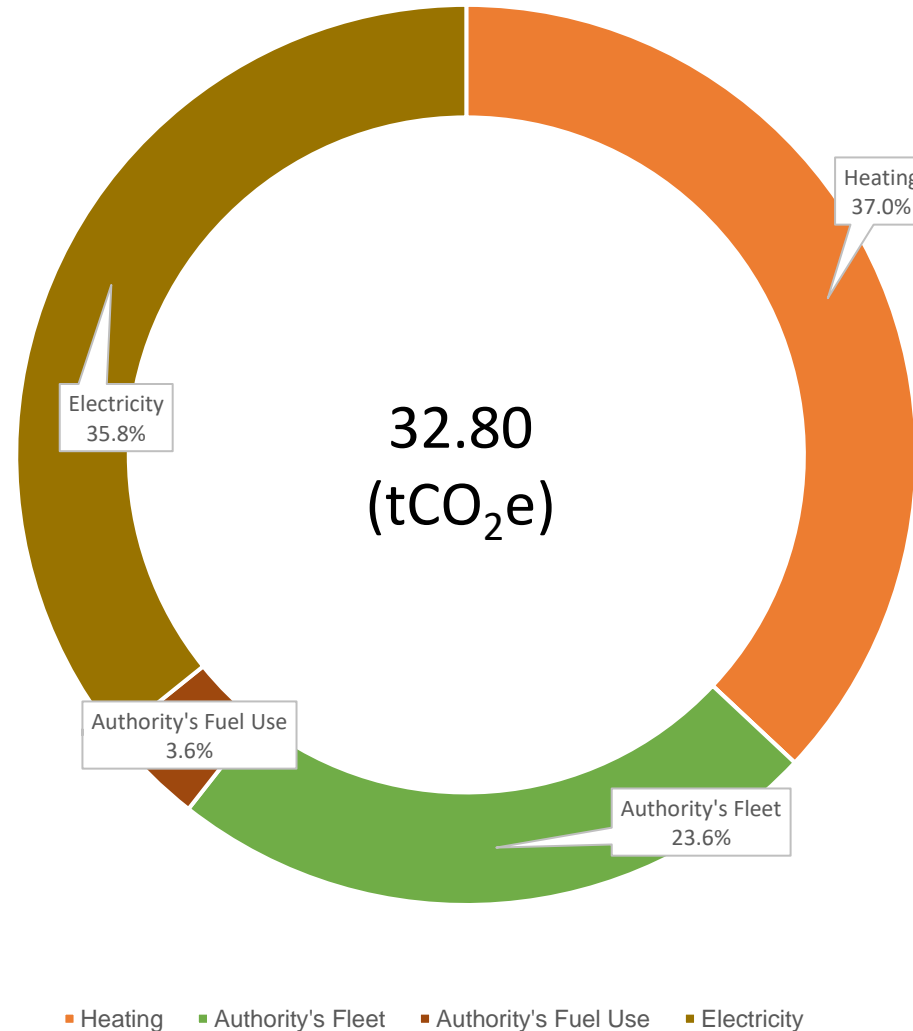
Emissions overview



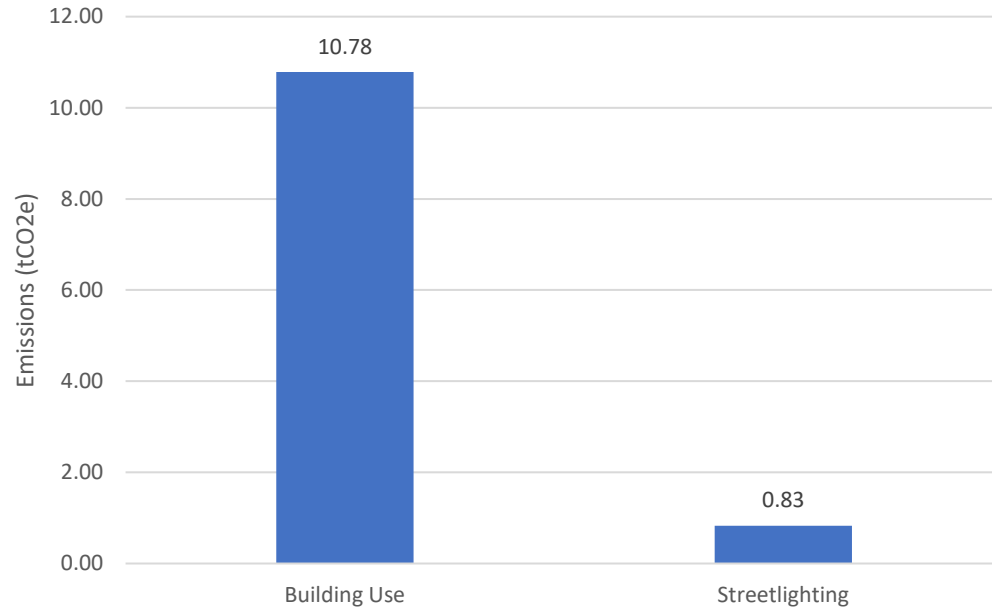
| Scope | Emissions Type | Emissions (tCO ₂ e) | Percentage of Total Emissions |
|------------------------|-------------------------------------|--------------------------------|-------------------------------|
| Scope 1 | Heating | 12.00 | 36.6% |
| | Fugitive Emissions | 0.00 | 0.0% |
| | Authority's Fleet | 7.66 | 23.4% |
| | Authority's Fuel Use | 1.18 | 3.6% |
| Scope 2 | Electricity | 11.61 | 35.4% |
| Scope 3 | Staff Business Travel | 0.00 | 0.0% |
| | Staff Commuting | 0.00 | 0.0% |
| | Working From Home | 0.00 | 0.0% |
| | T & D Losses | 0.35 | 1.1% |
| | Water | 0.00 | 0.0% |
| | Material Use | 0.00 | 0.0% |
| | Waste generated from own operations | 0.00 | 0.0% |
| | Outsourced Scope 3 | 0.00 | 0.0% |
| Total Emissions | | 32.81 | 100% |

*Scope 3 is transmission and distribution losses for street lighting

Scope 1 & 2 emissions



Scope 2 - Electricity



- Legion house (26%) & the depot (40%) make the majority of emissions
- Current electricity tariff is not backed by a Renewable Energy Guarantee of Origin (REGO)
- Note on renewable electricity: There are a large number of “green tariffs” on the market under which some or all of the electricity you buy is matched by purchases of renewable energy that your energy supplier makes on your behalf. A green tariff should be backed by a REGO. Green tariffs should be researched carefully as some tariffs are not as environmentally friendly as they claim to be. Where it can be demonstrated that electricity supplies are from solely renewable energy sources the Council may be able to claim that it has reduced its emissions. There are two main Government guidance documents in this area: 1. “Guidance on how to measure and report your greenhouse gas emissions” (2009); and 2. “Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance” (2019).

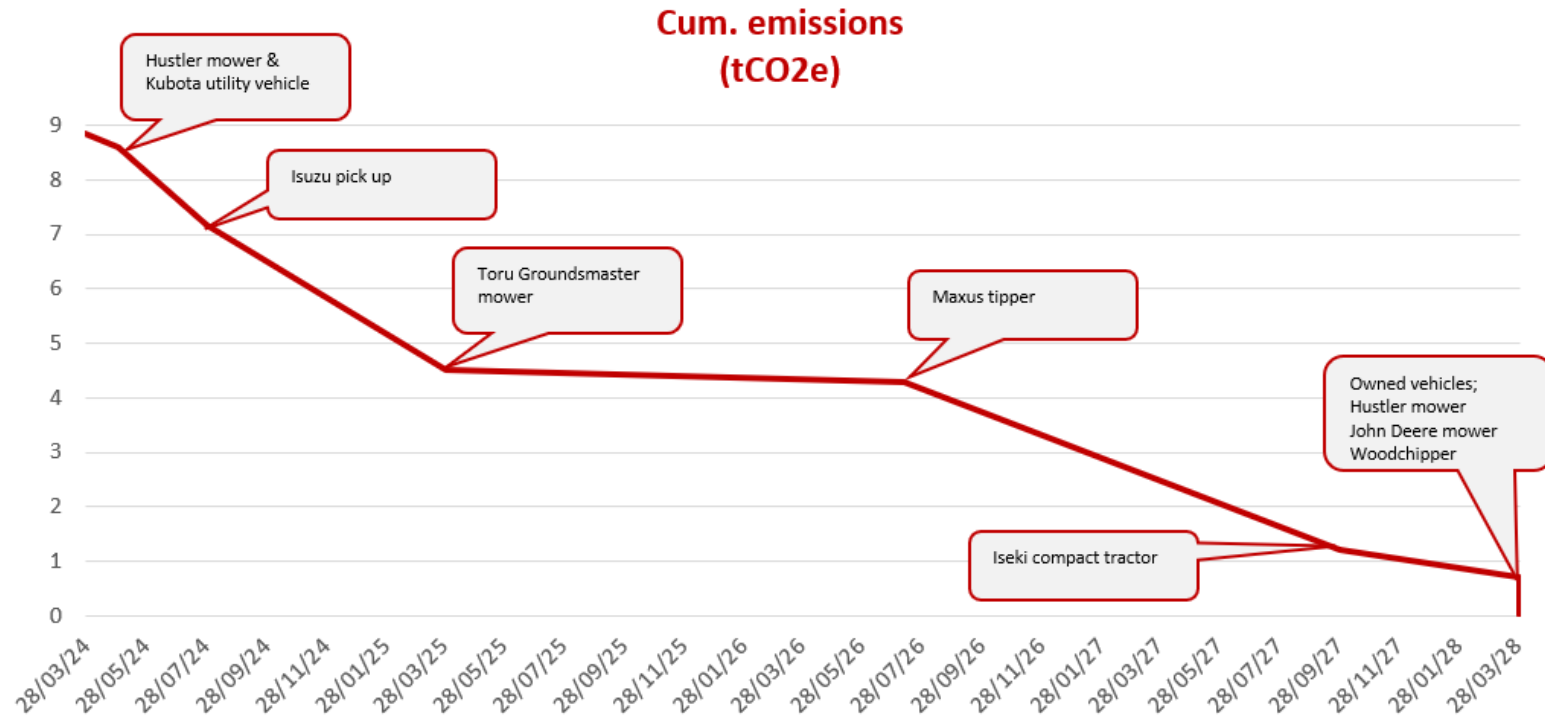
| Source | Activity | Consumption Units | Year | Consumption | Conversion Factor | Emissions (tCO ₂ e) | |
|----------------|-----------------------|-------------------|---------|-------------|-------------------|--------------------------------|--------------|
| Building Use | Purchased Electricity | kWh | 2022-23 | 15,416 | 0.193 | 2.98 | Legion house |
| Building Use | Purchased Electricity | kWh | 2022-23 | 23,473 | 0.193 | 4.54 | Depot |
| Building Use | Purchased Electricity | kWh | 2022-23 | 3,275 | 0.193 | 0.63 | Cemetery |
| Building Use | Purchased Electricity | kWh | 2022-23 | 6,745 | 0.193 | 1.30 | Westfields |
| Building Use | Purchased Electricity | kWh | 2022-23 | 6,853 | 0.193 | 1.33 | Western Park |
| Streetlighting | Purchased Electricity | kWh | 2022-23 | 4,278 | 0.193 | 0.83 | Unmetered |

Outstanding scope 3

- Water (buildings)
- Commuting & travel (staff & councillors)
- Waste (buildings & events)
- Outsourced emissions



Reduction timeline example - Vehicles



- Timeline based on assumption of replacing vehicles as leases expire
- Owned vehicles all at end of timeline
- Hand tools not included on timeline

Next steps

- Complete scope 3 audit – Dec 23
- Change electricity supplier to a tariff including RENO – Jan 24
- Scope building improvements to Legion House & Town Council Depot – Mar 24
- Start transition to EVs – Commence April 24
- Understand available grants we could utilise

