



CASE STUDY:

Carbon Accounting & Audit: Carbon Management Study

Local Government

Overview

As part of the UK Government’s strategy to combat Climate Change, Local Authorities are expected to lead by example and set in motion, the transition to a low carbon economy.

The Local Authority’s Environment Directorate worked with Enzen to estimate the Business Carbon Footprint using global best practice standards and deliver a robust, well justified Low Carbon Action-Plan for the four year period.

Highlights

- The Council’s BCF was assessed and reported as per WRI Protocol & Best Practice Guidelines
- Enzen team worked with key business stakeholders including Environment Directorate to carry out a Carbon Audit & Management Strategy study for delivery of a robust Low Carbon Action Plan

Local Councils – Responding to Climate Change

In the backdrop of UK’s 2050 Climate Change Roadmap and 2020 Renewable Energy Targets, local authorities and councils are expected to lead the shift towards a low carbon economy. With a population exceeding 100,000, the Council in question stands at the frontier of sustainability. Its vision is to become a leading Local Authority for the sustainable use of energy within its own operations via a targeted 2.5% emissions reduction year on year or a 25% overall reduction by 2020 vis-a-vis 2008/9 base-line levels.

Enzen’s Contribution

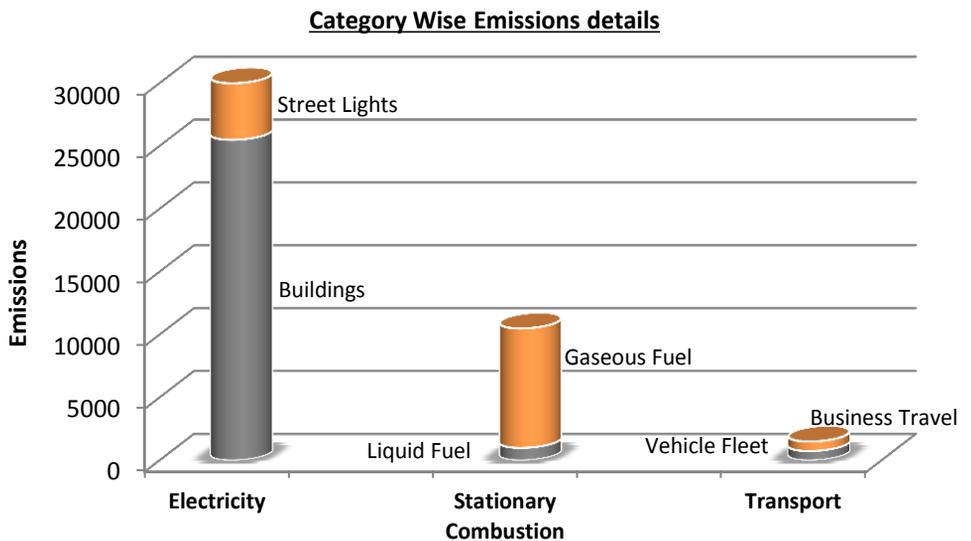
The Enzen team contains accomplished knowledge practitioners in the energy and environment sector, offering a wide variety of consultancy and advisory services related to the adaptation and mitigation of Climate Change. With extensive private and public sector experience of environmental challenges in UK as well as India, Enzen Global is strongly placed to guide local councils in their efforts to reduce their own carbon footprint as well as that of the broader community they serve.

Enzen’s Engagement Scope

As part of the Climate Change Strategic Initiative, Enzen was vested with the responsibility of undertaking an in-depth Emissions Inventory and Carbon Strategy Study across the Council’s Environment Directorate Business Functions towards delivery of a robust Carbon Reduction Action Plan.

Enzen’s Approach & Solutions

- Our team first went about scoping the relevant functions for identification and categorisation of emissions hotspots. Following best practice GHG protocols and World Resource Institute Guidelines, Enzen experts conducted a rigorous source-wise carbon inventory of the Council’s operations as illustrated below:



## Key Benefits

- Roadmap for implementing selected carbon reduction strategies
- Action-Plan Emissions forecasted to be 10,000tCO<sub>2</sub>e below base-line
- Estimated cost savings of GBP 1.5 M via improved Energy Efficiency & CRC Performance
- Support towards reducing reliance on fossil fuels & lowering the financial burden of unpredictable energy costs
- Stakeholder and Community Reputational Benefits

- Having base-lined the Council's GHG emissions, key stakeholder consultations and carbon audits were carried out to identify tangible energy and emission saving initiatives in the following hotspot areas:
  - Energy Use in Public Buildings, Schools & Street Lighting
  - Waste to Landfill
  - Fuel Use attributed to Council Fleet & Staff Travel
- Using metrics such as Marginal Abatement Cost Analysis and Financial Modelling, the team identified, evaluated and prioritised carbon reduction initiatives for implementation.
- These green schemes were subsequently synergised and integrated into a robust Carbon Reduction Action Plan
- The Action Plan offered important cost and carbon saving benefits, which were estimated for the four year implementation period

## Enzen Delivered Client-Benefits

- Engaging Enzen as an advisory partner in this strategic assignment paved the way for the Council to build a Low Carbon Roadmap for the subsequent four year implementation period.
- The Council's emissions hotspot areas were identified and flagged for targeted carbon reduction measures
- Enzen's Low Carbon Action Plan offered cumulative emissions reduction potential of 10,000 tCO<sub>2</sub>e at a forecasted cost saving of GBP 1.5 Million via improved Energy Efficiency and CRC performance.
- Enzen's findings lent support towards reducing reliance on fossil fuels and minimising the financial burden of unpredictable energy costs
- Realisation of Enzen's recommended carbon strategies would also give the Council the much needed credibility and reputational leverage to encourage the broader community to invest in similar sustainability measures for climate change mitigation.
- Increasing awareness and capacity building across different sections of the Local Authority

This engagement has the potential to extend the Carbon Footprint analysis to the wider Merseyside area which could in turn result in joint implementation of Low Carbon initiatives across local authorities, adopting a common procurement programme.

