# Carbon management progress review

**CMP 1**
Achieved a 20% reduction on the 2005/6 baseline by March 2012

**CMP 2**
Achieved a 22% reduction on the 2011/12 baseline by March 2018

**CMP 3**
Aiming to achieve a further **20%** reduction in emissions by 2023

- Reduced our footprint by 14,504 tonnes of carbon and reduced related costs by £9.4 million
- Cumulative carbon savings over the past 5 years have reached 37,010 tonnes of carbon
- Looking ahead to CMP 3, which sets out our strategy and action plan for continuing to reduce carbon emissions over the next 5 years
Why is carbon management important to LCC?

1. **Climate Change Act**: LCC believes that our activities shall align to the 80% emissions reduction target by 2050 and any future international/national commitments.

2. **Leadership**: Implementing this plan will demonstrate that LCC is committed to an innovative and creative approach to reducing carbon emissions and adapting to climate change.

3. **Cost savings**: Implementing an effective carbon management plan will help to save money on the cost of energy, water, transport and waste and contribute to the efficient use of Council resources.

4. **Reputation**: Our creative and innovative approach will stimulate a regional low carbon transition and strengthen relationships between the public sector and local businesses, while enhancing the public image of the Council.

5. **Building regulations**: The actions detailed in the carbon management plan will help to ensure that LCC remains compliant with current and future building regulations.

6. **Local area drivers**: Our 3rd Carbon Management Plan has been developed alongside the following strategies (Adaption, Decarbonisation of transport, Waste management and Local Industrial Strategy). As a consequence the plan covers a broader range of carbon management activities.
Current footprint of the council

Before we set reduction targets, it is important to understand our current emissions footprint

2016/17 Baseline statistics

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<th>Energy</th>
<th>Transport</th>
<th>Water</th>
<th>Total</th>
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<tbody>
<tr>
<td>Baseline CO₂e emissions (tonnes)</td>
<td>23,783</td>
<td>4,635</td>
<td>262</td>
<td>28,679</td>
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<tr>
<td>Baseline Cost (£)</td>
<td>£5,629,370</td>
<td>£4,416,076</td>
<td>£647,374</td>
<td>£10,692,819</td>
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Current footprint of the council

Breakdown of carbon emissions (CO$_2$e)
- Energy: 82.9%
- Transport: 16.2%
- Water: 0.9%

Breakdown of carbon related costs (£)
- Energy: 52.6%
- Transport: 41.3%
- Water: 6.1%

Carbon intensity of transport will generate a higher saving per kgCO$_2$e saved
Our vision is to maintain a leading role in local efforts to reduce the impacts of climate change. To achieve this aim we have set a target that is challenging, yet realistic. Saving 5,736 tCO2 over 5 years.
Why reach this target?

BENEFITS OF ACHIEVING THE TARGET

✔ Cost savings
✔ Raised awareness of climate change amongst staff, stakeholders and the public
✔ Positive community leadership
✔ Contribute towards national targets
✔ Compliance with legislation

Comparison of Carbon related costs with Business As Usual (BAU) increases and reduction targets

With no action on carbon, annual utility costs for LCC could increase from £10.7m to £14.2m by 2023 – an increase of approx. £3.5m. Achieving a 20% reduction in carbon emissions over the whole five years could result in cumulative savings of £12.4m (as shown by hatched area). Estimates include a prediction of energy/resource price inflation of 4% annually, hence even in a 20% reduction scenario, overall prices increase.
Planned carbon saving projects

The projects we will implement to reduce carbon emissions include:

- **Building fabric improvements**
  Insulation projects to focus on upgrading fabric elements (windows, roofs) across LCC’s portfolio on an annual basis, prioritising upgrades based on condition rating. This will help to achieve annual savings of 35.7 tonnes of CO₂.

- **Heating/cooling system upgrades**
  The implementation of a boiler replacement programme, to upgrade the heating systems across the buildings of LCC based on condition ratings. Savings of up to £15,500 annually are predicted.

- **Improved building controls**
  We have also adopted an annual programme which focuses on upgrading the building heating controls (BMS) across our building portfolio. Success will be measured by analysing consumption changes.

- **Lighting upgrades and improved lighting controls**
  Installation of efficient LED lighting technology across LCC owned buildings, alongside the replacement of Sodium Street Lighting Ballasts to LED fittings. Upgrading to LED fittings will help to achieve savings of almost 300 tonnes of CO₂ per year.

  We will also commission a feasibility study which analyses the potential of using street lighting columns as Electric Vehicle charging points.

- **Deployment of zero-carbon technologies**
  The rollout of roof mounted Solar PV installations across LCC owned buildings, alongside the implementation of the Fenland Green Power Solar PV scheme, where PVs will be installed across four local schools in the Market Deeping Area.
To ensure that carbon management is maintained, as an organisational priority, it needs to be considered as part of our decision making. Andy Gutherson, the County Commissioner - Economy & Place, holds overall responsibility for the implementation of this carbon management plan, with day to day management of the Plan being carried out by the Sustainability Team coordinating the activity to ensure results are achieved.
Robust data will provide the basis to monitor and report on the results of our actions and it will help us to drive positive behaviour change.

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<th>Action</th>
<th>Description</th>
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<tr>
<td>Annual reporting</td>
<td>The project leader will compile an annual report focusing on the performance and progress of the carbon management programme, whilst updating on greenhouse gas emissions and carbon baseline data. The report will be made available on the council’s website.</td>
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<td>Regular reporting</td>
<td>The Sustainability Team will report on the progress of the carbon management programme quarterly to the Corporate Environment Programme Board. The report will provide an overall summary, progress against individual projects, key milestones, top risks and issues.</td>
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<td>Communication to stakeholders</td>
<td>We will communicate our performance to staff and other stakeholders and use this as an opportunity to raise awareness of the carbon implications of their behaviour. A project to communicate to staff and the public messages about environmental matters including carbon savings is planned.</td>
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<td>Data management</td>
<td>We will continue to ensure that the data, figures, and assumptions that are used throughout the carbon management plan are robust. Ensuring the data being used is effective, forms a critical part of our plan and will continue to underpin our strategy as we monitor implementation progress.</td>
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