

**STROUD DISTRICT COUNCIL**

**AGENDA  
ITEM NO**

**CABINET**

**12 March 2009**

**18**

<b>Report Title</b>	<b>CARBON MANAGEMENT PLAN (CMP)</b>
<b>Purpose of Report</b>	To adopt the new Carbon Management Plan that seeks to reduce the Council's direct carbon emissions by 35%.
<b>Decision(s)</b>	<b>Cabinet RESOLVES to:</b>  <b>1. Adopt the Carbon Management Plan and,</b> <b>2. Seek accreditation under the 'Carbon Trust Standard'.</b>
<b>Consultation and Feedback</b>	The CMP is an internal management document. As part of the Council's involvement in Round 6 of the Local Authority Carbon Management Programme the CMP has been independently reviewed by the Carbon Trust achieving an 'A' rating.
<b>Financial Implications</b>	There are no financial implications arising directly from the report. There are budgets in place to fund the activities that support the Carbon Management Plan with the exception of two major projects - Ebley Mill Hydro and the installation of Combined Heat and Power at Stratford Park Leisure Centre. These will need to be consider by Members as part of the budget setting process when funding is required.  Sandra Cowley, Head of Finance Tel: 01453 754136 Email: <a href="mailto:sandra.cowley@stroud.gov.uk">sandra.cowley@stroud.gov.uk</a>
<b>Legal Implications</b>	There are no legal implications directly arising from this report.  Larissa Lowe, Principal Solicitor Tel: 01453 754377 Email: <a href="mailto:larissa.lowe@stroud.gov.uk">larissa.lowe@stroud.gov.uk</a>
<b>Report Author</b>	Nigel Riglar, Strategic Director Tel: 01453 754300 Email: <a href="mailto:nigel.riglar@stroud.gov.uk">nigel.riglar@stroud.gov.uk</a>
<b>Portfolio Holder</b>	Councillor Barbara Tait, Cabinet Member for Planning and Climate Change Tel: 01452 812743 Email: <a href="mailto:cllr.barbara.tait@stroud.gov.uk">cllr.barbara.tait@stroud.gov.uk</a>
<b>Options</b>	The production of a Carbon Management Plan is a discretionary activity.
<b>Performance Management Follow Up</b>	Strategic Director to make arrangements for the delivery of the plan.

<b>Background Papers/ Appendices</b>	Appendix 1. SDC Carbon Management plan (summary). A copy of the full report is available in the Members Lounge and on the Council's website <a href="http://www.stroud.gov.uk">www.stroud.gov.uk</a>
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## INTRODUCTION

1. The CMP is the main deliverable from the Council's involvement in Round 6 of the Local Authority Carbon Management Programme, facilitated by the Carbon Trust. It sets out the key activities required to deliver the Council's target of reducing the Council's direct carbon emissions by 35% by the end of 2010/11; measured against a 2007/08 baseline. A summary of the Plan can be found in Appendix 1 and the full Plan is available in the Members Lounge.

## THE PLAN

2. Section 3.2 of the CMP contains the baseline for 2007/08, which amounts to some 2,266 tonnes of CO<sub>2</sub>. Section 3.3 sets out projected emissions over the next few years and introduces the concept of 'value at stake' (VAS), which is at the heart of the plan. VAS is the difference between the business as usual and reduced emission scenarios. Graphs 3.3 and 3.4 show the predicted total carbon and energy cost savings that could be obtained by adopting and implementing the CMP. The VAS represents a cumulative saving of **1,749 tonnes of CO<sub>2</sub>** or a predicted **£252,000 saving** over the 4-year target period.

3. The activities identified to realise this VAS are set out in section 4. All activities are funded from within existing budgets, including the £200,000 of capital agreed at the January 2007 Council meeting and the £100,000 over two years agreed at this years January meeting. The exceptions to this are the funding of two major projects - Ebley Mill Hydro and the installation of Combined Heat and Power at Stratford Park Leisure Centre. Both will need to be subject to individual business cases, investment plans and decisions by Cabinet / Council.

## RISK

4. The 35% target is ambitious and the highest target set by a District Council in Round 6. The Council is projected to over achieve on its target providing a contingency if one of the two major projects did not proceed. A failure to deliver both would probably result in the 35% target being missed; 27-28% would be more likely. Even at this level the Council would exceed the targets it had set itself in its Environment Strategy and as the target is voluntary there is no formal sanction. Additionally, section 6.7 does identify a number of future policy developments that may deliver additional savings within the 4-year target period.

## CARBON TRUST STANDARD

5. The Carbon Trust Standard has been launched to take over from the Energy Efficiency Accreditation Scheme. It has been developed to provide a much needed, clear and robust definition of good practice that can be used to judge an organisation's commitment to and achievement of carbon reduction.

6. The Carbon Trust Standard certifies that an organisation has genuinely reduced its carbon footprint and is committed to making further reductions year on year. To achieve certification against the Standard, the Council will need to meet the requirements of the Standard by:

- Measuring its key greenhouse gas emissions. Initially this means measurement of the electricity and fuel used onsite, and the fuel used in vehicles;

- Showing good carbon management performance. This means providing evidence of activity such as investment in new equipment, maintenance programmes and staff training; and,
- Being able to show emissions reduction over the last year – either on a total emissions basis, or on a relative basis (e.g. emissions/£m turnover).

7. The Council is in a strong position to achieve the Carbon Trust Standard, which will complement its existing registration under the Eco-Management and Audit scheme (EMAS). The cost of achieving the Standard will be maintained within existing budgets.

# Stroud District Council Carbon Management Programme – Management Summary

## Carbon Management Plan (CMP)



**Version number:** 1.4

**Owner:** Nigel Riglar

**Approval route:** Cabinet

**Approval status:**

## **Management Summary**

This plan is the main deliverable, as part of the Local Authority Carbon Management Programme, facilitated by the Carbon Trust. It sets out the key activities to deliver the strategic objectives, identified commitments and targets to reduce Stroud District Council's carbon emissions. It is intended that this management plan will provide a basis for all carbon management activity within the council and will be updated annually.

This carbon management plan has been developed to address a number of external and internal drivers, as identified in the main report. Our vision for carbon management is set out below:

*“Stroud District Council recognises the need to tackle climate change at a local level and will continually act to reduce our carbon emissions. We will lead the community, by example, making Stroud District a better place to live, work and visit for everyone.”*

To achieve the council's aims the following target has been agreed:

*“Stroud District Council will reduce the CO<sub>2</sub> emissions from its' direct operations by at least 35% by the end of the 2010/11 financial year based on a 2007/08 baseline”*

In order to achieve our vision and targets we will focus on the following strategic themes:

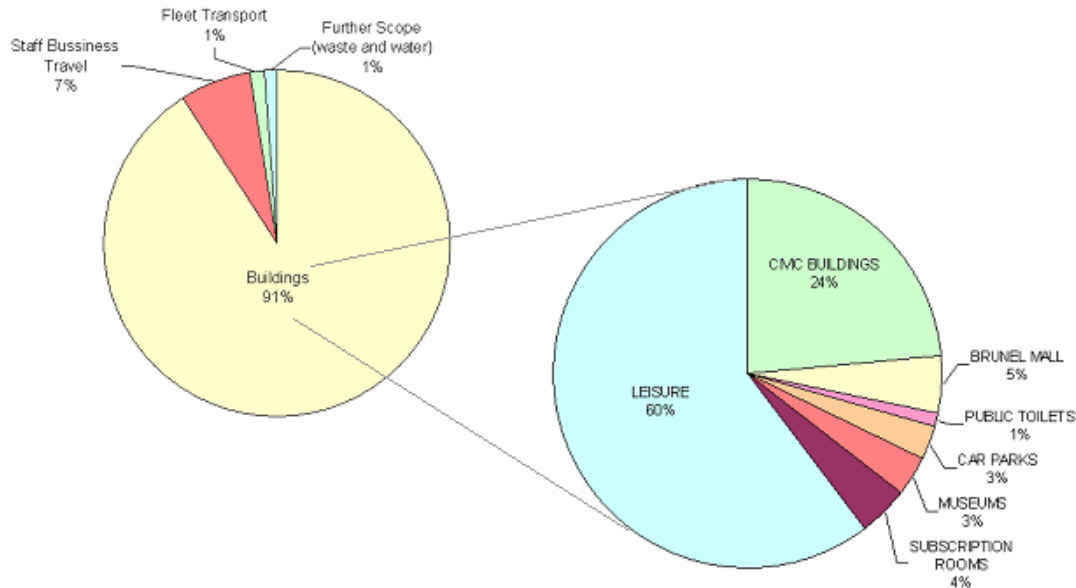
- Taking all possible practical actions to reduce the Council's CO<sub>2</sub> emissions and respond to the challenges posed by the impacts of climate change.
- Reducing emissions from our energy, water and transport use.
- Reducing fossil fuel reliance by using renewable sources of energy.
- Raising staff awareness and training to bring about behavioural change across the organisation.
- Bringing together all carbon management projects into a consistently managed and coherent programme.
- Embedding carbon management into the council's day-to-day activities, policies and procedures.
- Using the knowledge, experiences and successes gained from taking part in this programme to help the wider community take action allowing the district as a whole to make a contribution to reducing the effects of climate change.

## **Emissions Baseline and Projections**

The scope of the emissions baseline included:

- Energy use in Stroud District Council owned buildings
- Energy use in Leisure Centres
- Fleet Transport
- Staff Business Travel
- Water use in Main Council Offices, Leisure Centres and public toilets
- Waste to landfill from Main Council Offices

The total CO<sub>2</sub> emissions produced by the council's direct operations and services during the 2007/08 financial year were 2,266 tonnes. The breakdown of this is illustrated in the following chart and table:



Year	Total CO <sub>2</sub> Emissions (tonnes)	Emissions from Buildings (tonnes)	Emissions from transport (tonnes)	Further Scope (tonnes)
2007/08	2,266	2,060	152	25

Based upon recent trends in energy consumption observed by the Department for Business, Enterprise and Regulatory Reform, by 2010/11, with a “business as usual” approach, the carbon footprint of Stroud District Council is likely to have increased by 2.1% to 2,314 tCO<sub>2</sub>. By 2010/11 the council's energy spend is forecast to have increased to £352,301 an increase of 30% on the baseline year.

The “value at stake” is the cumulative difference of pursuing a carbon management programme against continuing with business as usual. The value at stake has been calculated to be £252k or 1,749 tCO<sub>2</sub> by 2010/11. This represents the total savings that can be obtained through adopting a carbon management programme that achieves a 35% emissions cut.

### **Carbon Management Projects**

A list of actions for implementation have been identified in section 5 (and detailed in Appendix B) to deliver the carbon and associated financial savings. The total CO<sub>2</sub> saving identified is 910 tonnes. This will be made up of both “quick win” energy efficient measures and longer term renewable and “cleaner” energy technologies.

High cost, high impact, long term options are at most risk of not being implemented due to technical feasibility and funding availability. If these measures are not implemented the CO<sub>2</sub>

savings achievable will be 601 tonnes which is a 27% saving on the 2007/08 baseline. Due to their significant risk these projects will be treated as business cases in their own right.

### **Summary of Predicted Costs and Savings**

The table below illustrates predicted costs and savings from putting into practice this Carbon Management Plan. Funding has already been secured for the first three years of the programme.

<b>Total value at stake over target period = £320,244</b>				
<b>Total cost savings over 4 year period of Carbon Management Plan = £162,106</b>				
<b>Total Annual cost savings year 4 = £22,926</b>				
<b>Total Estimated unfunded Capital expenditure = £450,000</b>			<b>Total Estimated unfunded Revenue Expenditure = £0</b>	
	<b>2007/08</b>	<b>2008/09</b>	<b>2009/10</b>	<b>2010/11</b>
<b>Annual savings</b>	£17,600	£8,448	£21,718	£22,926
<b>Cumulative Annual savings</b>	£17,600	£26,048	£47,766	£70,692
<b>Annual Revenue Investment</b>	£10,000	0	£15,000	0
<b>Annual Capital Investment</b>	£95,000	£86,000	£135,000	£450,000
<b>Funding allocated</b>			✓	0
<b>Required Funding</b>	0	0	0	£450,000

### **Actions to Embed Carbon Management into the Organisation**

Incorporating CO<sub>2</sub> considerations into the mainstream decision making within Stroud District Council requires cultural change within the management and operation of the organisation. Managing this change and integrating carbon considerations at the heart of the decision making process within the authority will be a crucial part of the Council's carbon management strategy.

As part of the Local Authority Carbon Management Programme the authority completed an assessment of the degree to which carbon management considerations have been integrated into the day-to-day running of the organisation (Appendix A). It is intended that by the end of the target period that the authority will achieve a level 5 across all seven areas. The issues and outcomes required to achieve these successes are discussed in more detail throughout section 6.

### ***Programme Management of the CM Programme***

Ownership of the Carbon Management Plan is key to its success. The implementation of this programme will be aided at a strategic level by management and member sponsors and the Carbon Management Board who will meet biannually. Officers on the Carbon Management Team will be responsible for implementing projects relevant to their service area.

Over the four year period that this plan covers the individuals involved will inevitably change. Part of the regular review by both the Carbon Management Team and Board will cover the personnel involved and their roles, with any amendments being recorded.