

Carbon Management Plan Progress Report 2014**Report by John Blair, Director Resources****1 Purpose of Report**

The purpose of this report is to seek Council approval of the Carbon Management Plan Progress Report 2014. The Progress Report (included as an Appendix to this report) provides progress to date and details the results of the implementation plan of carbon reduction measures.

2 Background

2.1 Midlothian Council's overall target for carbon reduction is 25% by the end of financial year 2015/16 based on a baseline year of 2006/7.

2.2 The current Single Midlothian Plan contains a target to reduce territorial CO₂ emissions for which the Midlothian Area is responsible for 4.5 tonnes per capita by 2020. Adoption and implementation of the Carbon Management Plan to assist in the achievement of that target was approved by Council on 25 March 2014.

3 Report Implications**3.1 Resource**

The approximate cost of implementing the overall Plan is in the region of £2.5M. Various external funding streams continue to be utilised to achieve targets.

The overall results for 2014 show the Plan to be ahead of target. This is detailed in Table 1 of the Appendix to this report.

3.2 Risk

There is a significant risk that the Council will not meet the objectives under the Single Midlothian Plan and the Council's carbon reduction commitment should the Carbon Management Plan not be implemented.

3.3 Single Midlothian Plan and Business Transformation

Themes addressed in this report:

- ☐ Community safety
- ☐ Adult health, care and housing
- ☐ Getting it right for every Midlothian child
- ☐ Improving opportunities in Midlothian
- ☐ Sustainable growth

- ☐ Business transformation and Best Value
☒ None of the above

3.4 Key Priorities within the Single Midlothian Plan

The proposals as set out in this report may also be applicable to the Council's Community Planning partners.

3.5 Impact on Performance and Outcomes

The proposals set out in this report do not impact on performance and outcomes.

3.6 Adopting a Preventative Approach

None.

3.7 Involving Communities and Other Stakeholders

This report also involves other key partners and contractors and involves the wider community.

3.8 Ensuring Equalities

An Equality Impact Assessment is not required.

3.9 Supporting Sustainable Development

The Report details that the proposals set out in the Plan are enabling the Council to reduce territorial CO₂ emissions.

3.10 IT Issues

There are no IT issues arising from this report.

4 Recommendations

The Council is recommended to note the progress made with the Carbon Management Plan 2013/14-2015/16 towards achieving its overall target and approve the Progress Report for 2014.

30 July 2014

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Background Papers:

Midlothian Council Carbon Management Plan CMP 2014 Progress Report

MIDLOTHIAN COUNCIL CARBON MANAGEMENT PLAN

2014 PROGRESS REPORT

CMP 2013 - 2016

Date: July 2014
Version number: v0.1 DRAFT
Owner: Colin Quinn
Approval route: Midlothian Council
Approval status: DRAFT
Next revision due: July 2015

INTRODUCTION

This Carbon Management Plan (CMP) for Midlothian Council sets out a three-year plan for the reduction of carbon emissions arising from the Council's own operations.

Midlothian Council's overall target for carbon reduction is 25% by the end of financial year 2015/16 (based on a baseline year of 2006/7) This equates to a reduction of around 8,800 tonnes CO_{2e}.

The annual report provides an ongoing review of actual progress towards target carbon emissions.

Communication of targets and progress is key to developing ownership, maintaining focus and delivering targets. It is proposed that each annual progress report will not only be presented to elected members but also published on the Council website to allow local communities to monitor progress. Media releases will be used to inform the general public of progress and targets (as applicable).

Among Council employees, individual project updates will be submitted via internal staff publications to keep all staff informed of wider progress and implementation of the CMP.

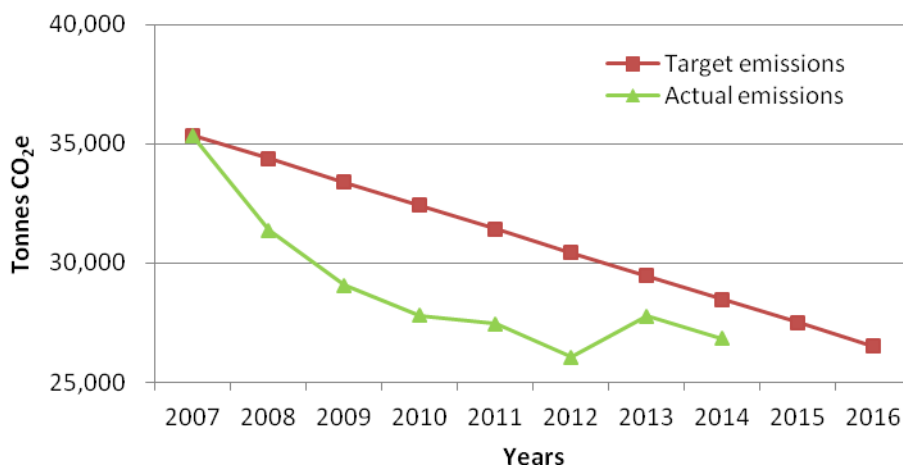
PROGRESS REVIEW

This progress report includes information on actual CO_{2e} emissions for Midlothian Council through to end March 2014.

Table 1: Midlothian Council Reported Carbon Emissions (all figures in tCO_{2e})

Category	Financial Year									
	2006/07	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16
Building Energy Consumption	17,850	14,876	12,912	13,978	14,240	13,141	14,445	13,516		
Waste (Landfill)	11,218	10,226	9,784	8,222	7,561	8,052	7,755	7,536		
Waste (Recycled)	994	1,085	1,114	418	432	470	455	457		
Streetlights	2,711	2,449	2,610	2,609	2,645	2,332	2,817	3,113		
Transport	2,543	2,702	2,600	2,532	2,523	2,008	2,245	2,161		
Water	38	41	44	50	40	45	45	42		
TOTAL	35,354	31,379	29,064	27,809	27,441	26,048	27,762	26,825		
Target Emissions	35,354	34,372	33,390	32,408	31,426	30,444	29,462	28,480	27,498	26,516
Variance	0	-2,993	-4,326	-4,599	-3,985	-4,396	-1,700	-1,655		
% Change from baseline		-11.2	-17.8	-21.3	-22.4	-26.3	-21.5	-24.1		
% Annual Change		-8.1	-7.4	-4.3	-1.3	-5.1	+6.6	-3.4		
% Annual Change (by category)										
Building Energy Consumption		-16.7	-13.2	+8.2	+1.9	-7.7	+10.0	-6.4		
Waste (Landfill)		-8.8	-4.3	-16.0	-8.0	+6.5	-3.7	-2.8		
Streetlights		-9.7	+6.6	0	+1.4	-11.8	+20.8	+10.5		
Transport		+6.2	-3.8	-2.6	-0.3	-20.4	+11.8	-3.7		
Water		+7.9	+7.3	+13.6	-20.0	+12.5	0	-6.7		

Figure 1: Midlothian Council Carbon Emissions



Commentary

Building Energy – Energy consumption across the entire buildings portfolio continues to be monitored on a monthly basis. Accurate monitoring capacity has been further enhanced due to an extension in the number of automatic read meters installed and improvements in data capture enabling remote monitoring of the meter readings by the Council's Energy Team. Further smart meters, capturing gas supplies in a number of buildings has been progressed, and more are planned for the year ahead.

Insulation and building fabric improvements have been undertaken at a number of sites alongside improvements to boiler control systems and replacement of older boiler units with more modern efficient units.

Building asset rationalisation under the EWIM project as well as the introduction of the new Lasswade Centre have had a beneficial effect on energy consumption resulting in fewer emissions.

Waste – The Council operates kerbside recycling collections, incorporating paper, card, plastic bottles, glass bottles/jars and food/drink cans. In addition there are two community recycling centres available for disposal of a wide range of items.

The Council is committed to achieving the targets set out by the Scottish Government in Scotland's Zero Waste Plan. To that end present services are being reviewed to determine the most effective means of meeting these targets. Ongoing work in collaboration with City of Edinburgh Council is developing a potential site for receipt of both food and residual waste; implementation of this scheme would ensure that the Council meets its zero waste targets.

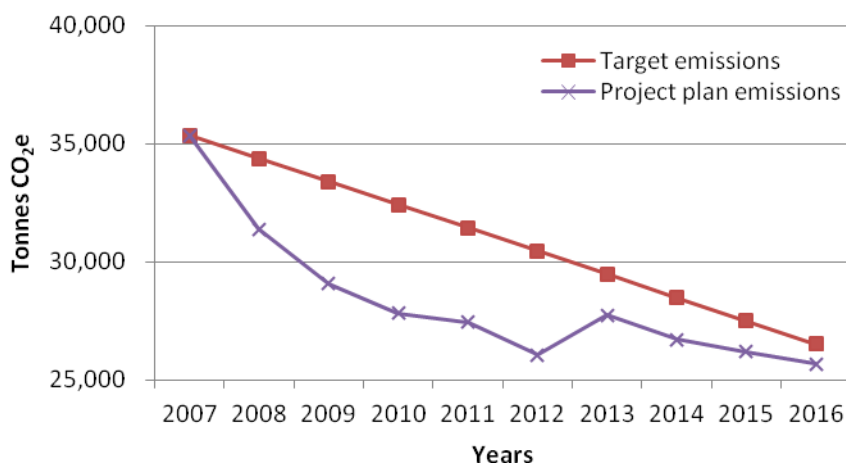
Street lighting – The operation of street lighting across Midlothian is subject to constant monitoring, maintenance and upgrade. The potential for replacement of older lamps with more energy efficient alternatives is continually assessed during ongoing maintenance and refurbishment programmes. The Council is also introducing emerging technologies, such as LED lighting, to further reduce emissions. All lighting improvements are required to meet existing British Standards.

Transport – Fleet fuel monitoring software continues to assist the Council in maximising the efficiency of its fleet vehicles in operation. The size of the fleet remains under review, ensuring that the number of vehicles in operation is matched with service requirements. Ongoing cycles of fleet vehicle replacement include consideration of environmental credentials and compliance with Euro engine standards.

Planned Projects

The current Carbon Management Plan issued in March 2014 reported that the Council would not meet the 2016 target of 25% based on the list of projects identified with a shortfall of approximately 500 tonnes CO₂e. The Carbon Management Team have identified additional projects and funding is in place which will recover this situation.

Figure 2: Midlothian Council Projected Carbon Emissions



Summary

Midlothian Council exceeded its interim target of 17% reduction (5892 tonnes CO_{2e}) by 2012/13 to 21.5% (7593 tonnes CO_{2e}) based on the 2006/7 baseline. This trend has continued in 2013/14 with a reduction of 24.1% (8529 tonnes CO_{2e}) from the baseline.

Energy consumption in buildings has reduced by 6.6% in the last year after a 10% increase the previous year. This recovery is mainly due to resolving heating and plant issues at major sites and delivery of Building rationalisation (Ewim) and the New Lasswade Centre.

The continued increase in street lighting electrical consumption of almost 10.5% in 2013/14 is due to additional adopted sites from the house building portfolio. The impact of this is being reduced through implementation of more energy efficient lighting technologies throughout the estate.

Transportation emissions indicate 3.7% reduction recovering last year's increase.

Additional projects have been identified and are being implemented to meet out 2016 target of 25% reduction based on the 2006/7 baseline.

Date of next progress report: July 2015