

STROUD DISTRICT COUNCIL**AGENDA
ITEM NO****CABINET****10 June 2010****6**

Report Title	CARBON MANAGEMENT PLAN UPDATE
Purpose of Report	To note the achievements to date and approve the changes to the plan for 2010/11.
Decision(s)	Cabinet resolves to <ol style="list-style-type: none"> 1. Note the achievement to date. 2. Approve the revised Plan for 2010/11 as set out in Appendix 1.
Consultation and Feedback	The CMP is an internal management document. Regular officer meetings take place to review progress and to discuss new actions. Following the recent Scrutiny Inquiry in to financing domestic renewables, one of the actions was to set up a cross party group to assist with future policy development. It is intended that the Carbon Management Plan would be taken to this group.
Financial Implications and Risk Assessment	<p>Risk Assessment</p> <p>The consequences for not pursuing alternative projects, where funding is available, will undermine the Council's commitment to reducing carbon emissions.</p> <p>Petula Davis Policy Officer Tel: 01453 754289 Email: petula.davis@stroud.gov.uk</p> <p>The revised plan for 2010-11 detailed in Appendix 1 will be funded from approved budgets except for the new humidity controlled ventilation with VSD fans at SPLC which is still subject to funding approval.</p> <p>Funding sources for the proposed schemes in paragraphs 6 to 9 and in appendix 1 need to be identified and approved as part of the budget process.</p> <p>Des Knight, Interim Finance Manager Tel: 01453 754344 Email: des.knight@stroud.gov.uk</p>
Legal Implications	<p>There are no Legal Implications arising from this report.</p> <p>Peter Cruden, Interim Legal Services Manager Tel: 01453 754369 Email: peter.cruden@stroud.gov.uk</p>
Report Author	<p>Petula Davis Policy Officer Tel: 01453 754289 Email: petula.davis@stroud.gov.uk</p>
Portfolio Holder	<p>Councillor Elisabeth Bird Tel: 01453 886413 Email: clr.elisabeth.bird@stroud.gov.uk</p>

Options	The production of a Carbon Management Plan is a discretionary activity, however, the plan helps the Council to achieve its commitment to tackling climate change by reducing its CO2 emissions.
Performance Management Follow Up	Performance will be monitored through Excelsis. The Councils EMAS accreditation considers both the environmental contribution made by the Carbon Management Plan but also the rigour with which the plan is managed.
Background Papers/ Appendices	Cabinet Report 12 March 2009 Appendix 1

Background

1. In 2007 the Council adopted its Environmental Strategy which set out the Council's ambition to improve the environment through a number of measures. The Carbon Management Plan (CMP) is the main output from the Council's involvement in Round 6 of the Local Authority Carbon Management Programme, overseen by the Carbon Trust. The CMP sets out the key activities required to deliver the Council's target of reducing its direct carbon emissions by 35% by the end of 2010/11 measured against a 2007/08 baseline.

Introduction

2. The purpose of this report is to demonstrate the achievements to date and put forward proposals in order to achieve further savings as set out in appendix 1.
3. The Cabinet report in March 2009 emphasised risks around the availability of funding for two of the projects, the installation of Combined Heat and Power (CHP) at Stratford Park Leisure Centre and hydro power at Ebley Mill. The report set out that if the funding was not secured there was a high risk of missing the 35% target in reduction of Carbon Dioxide emissions.

Progress to Date

4. Most of the projects set out in the March 2009 Carbon Management Programme have either been completed or will be completed by 31 March 2011 such as the replacement of PCs with Thin Client. A total saving of 696 tonnes of carbon emissions will have been made, which equates to a 30.1% reduction. This is a significant achievement.
5. In January 2010, Central Government announced the Feed In Tariffs (FITs), which are payments for the generation of electricity from renewable technologies to anyone, individual or business, that owns a renewable electricity system.
6. The Combined Heat & Power (CHP) installation in Stratford Park Leisure Centre is in the CMP but is subject to funding. Ideally CHP would be installed alongside new boilers. While the current boilers are not due for replacement they are inefficient when compared to modern modular gas boilers. Further consideration will need to be given to the capital cost and potential energy/cost saving as fuel prices rise and different technologies become more mainstream. The project is included in the last table of Appendix 1 'Projects being investigated'.
7. The installation of the hydro scheme at Ebley Mill requires a considerable investment, approximately £300,000. There is currently no capital available for this project. If SDC borrowed £300k from PWLB¹ over a period of 15 years, the

¹ Public Works Loan Board

repayment would be £26.6k per year. The income received from electricity generation at the current rate of FIT equates to £26.2k per year, a shortfall of £400 per year. By purely looking at the financial returns of investing in hydro power at Ebley Mill, it would indicate that it is not a worthwhile investment at the current time; however other factors need to be considered and balanced against the opportunities identifies in the last table of Appendix 1 'Projects being investigated'.

8. New projects have been identified for the 2010/11 and are set out in appendix 1. In addition, there are other areas that are currently being investigated. These are also set out at the end of appendix 1; however, until the cost and the financial and carbon savings are established it is difficult estimate how much they will contribute to the 35% reduction target.
9. In September 2009 Stroud District Council was one of the first ten local authorities to sign up to the 10:10 Campaign – a campaign which encourages individuals, groups, communities and businesses to pledge to cut their carbon emissions by ten percent in 2010. It is anticipated that the Council will meet this 10% target during 2010. The target not only will include the savings made in the CMP projects but also the transport carbon emissions savings through less miles/more efficient vehicles.
10. It is through the Carbon Management Programme and other initiatives such as the S2S Project, that the Council's Environmental Policy is realised into actual targets and savings. If the projects that are currently being investigated come to fruition, the 35% reduction target in CO2 emissions will be realised if not significantly surpassed.

Projects completed 2007/08 (Year 1)

Project	Annual Savings		CO ₂ reduction % of total
	Financial saving	CO ₂ saving (tonnes)	
Lighting upgrades – Ebley Mill	£4,459	53	2.3
Voltage Optimisation – Ebley Mill	£3,064	37	1.6
Server Virtualisation	£7,380	88	3.9
MyEnergy Awareness Campaign	£2,697	35	1.5
Total	£17,600	213	9.3

Projects completed 2008/09 (Year 2)

Project	Annual Savings		CO ₂ reduction % of total
	Financial saving	CO ₂ saving (tonnes)	
Active Heat Management	£266	5	0.2
Pool Cover – SPLC	£3,055	44	1.9
Water upgrades -SPLC	£1,500	28	1.2
Ecometer Installation	£1,958	26	1.1
Lighting upgrades – Ebley Mill	£1,669	20	0.9
Total	£8,448	123	5.3

Projects completed 2009/10 (Year 3)

Project	Annual Savings		CO ₂ reduction % of total
	Financial saving	CO ₂ saving (tonnes)	
Hand drier upgrade – Ebley Mill	£2,726	33	1.5
Variable Speed Drive – Dursley Pool	£1,103	13	0.6
Update fleet vehicles with “best in class”	-	7	0.3
Voltage Optimisation – Dursley Pool	£1,103	13	0.6
Voltage Optimisation - SPLC	£3,205	38	1.7
Total	£8,137	104	4.7

Projects to be completed 2010/11 (Year 4)

Project	Annual Savings		CO ₂ reduction % of total
	Financial saving	CO ₂ saving (tonnes)	
Variable Speed Drive (VSD) – SPLC	£3,205	38	1.7
Replace existing PC's with Thin Client (continuing)	£8,661	103	4.5
Replacement lighting in the Council Chamber	£662	2	0.1
Brunel Mall Lighting reduced use	£6,088	36	1.5
*New humidity controlled ventilation with VSD fans at SPLC (*subject to funding)	£13,000	77	3
Total	£31,616	256	10.8

Projects being investigated

Project	Annual Savings		CO ₂ reduction % of total
	Financial saving	CO ₂ saving (tonnes)	
Up grading the IT server room air conditioning. (Also gives greater business resilience)	TBC	TBC	TBC
Replacement of SPLC boilers and Micro CHP	£11923 (CHP only)	178	7.9%
Green fleet review	TBC	TBC	TBC
Anaerobic digester for district food waste	TBC	TBC	TBC
Assessment of a Business case for Stroud District Council investment in renewable infrastructure	TBC	TBC	TBC
Ebley Mill Hydro Power	Loss of £400	131	5.8%