# EAST SUSSEX COUNTY COUNCIL

# CARBON MANAGEMENT PILOT PROGRAMME PHASE 2

# Carbon Management Action Plan

**March 2005**
**Version 2**

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## 1. INTRODUCTION

1.1 East Sussex County Council (ESCC) adopted a Corporate Property Energy Strategy and Action Plan in March 2004.

1.2 This Carbon Management Action Plan seeks to:

a) extend the scope of activities against which the County Council's carbon emissions are managed and reduced;

b) revisit the previous actions planned to reduce emissions from buildings;

c) exploit opportunities for external help and assistance in reducing carbon emissions; and

d) integrate the Corporate Property Energy Strategy into this Action Plan to provide a single focus for efforts to reduce carbon emissions and costs.

## 2. CARBON MANAGEMENT STRATEGY

East Sussex County Council's objective is to manage our assets better, in order to reduce energy consumption and consequential greenhouse gas emissions, thereby reducing adverse impacts on our environment and helping to preserve the natural beauty of East Sussex.

2.1 In pursuit of this objective East Sussex County Council will seek to:

- Reduce the total carbon emission of the Council;
- Increase the use of renewable energy sources;
- Make our buildings and other operations more energy and water efficient;
- Reduce our business vehicle movements;
- Continue to support the development of local wood-based industries.

## 3. CONTEXT

3.1 Flooding in Lewes and Uckfield during 2000 provided a drastic reminder of the local impact of global warming.

3.2 East Sussex County Council has already made significant moves to reduce carbon emissions through its Corporate Property Energy Strategy. Examples of actions taken are the:

- Installation of a geo-thermal heating unit at Park Mead School in 2004, which utilises renewable heating from the ground.
- Installation of boiler burner controls at County Hall which reduce fuel use and therefore carbon emissions by up to 20%.
- Development of a Sustainable Buildings Brief which is incorporated into the standard building specification.

3.3 Principal constraints on the further development of the County Council's response to the need to reduce carbon emissions are:

- Limited funding for the increased up-front costs of energy-efficient installations in buildings;
- The County's previous investment in energy-efficient measures means that there are few new tried and tested solutions which also give a sufficiently short pay-back time;

- The age and consequently energy-inefficient design of County Council buildings and plant and equipment, including street lighting stock;
- Tension between the objective to reduce energy consumption and other policy objectives, for instance between Community Safety concerns and potential to reduce street lighting intensity and/or usage.

3.4 This Carbon Management Action Plan has been developed in parallel with the County Council's Reconciling Policy and Resources process and review of the Capital Programme for 2005/06 and beyond.

3.5 As a result the County Council has made provision in the capital programme of £100k a year from 2005/06 to 2009/10 for invest to save energy efficiency measures.

## 4. STRATEGY

4.1 This Carbon Management Action Plan seeks to manage, and reduce, carbon emissions in the following areas:

| | | | | |
|---|---|---|---|---|
| Schools and other Council Buildings | Street Lighting | Fleet Transport | Business Travel | Staff Commuting |

4.2 Some key opportunities arising during the currency of this plan which will be used to explore potential for reduction in the Carbon Footprint of the County Council are:

- A review of the County's future property needs.
- The roll-out of flexible working following successful completion of the pilots during 2004/05.
- Periodic renewal of contracts for services such as highways maintenance, vehicle fleet and street lighting.
- Moves to manage better the supply chain in procuring new buildings and maintenance works.
- The design of new buildings and alteration to existing, including schools.

4.3 Where possible available County Council funding will be used to lever in external funds for investment in carbon-saving initiatives.

4.4 Good housekeeping practices designed to save energy will be embedded by training managers responsible for schools and other operational facilities.

## 5. EMISSIONS BASELINE AND PROJECTIONS

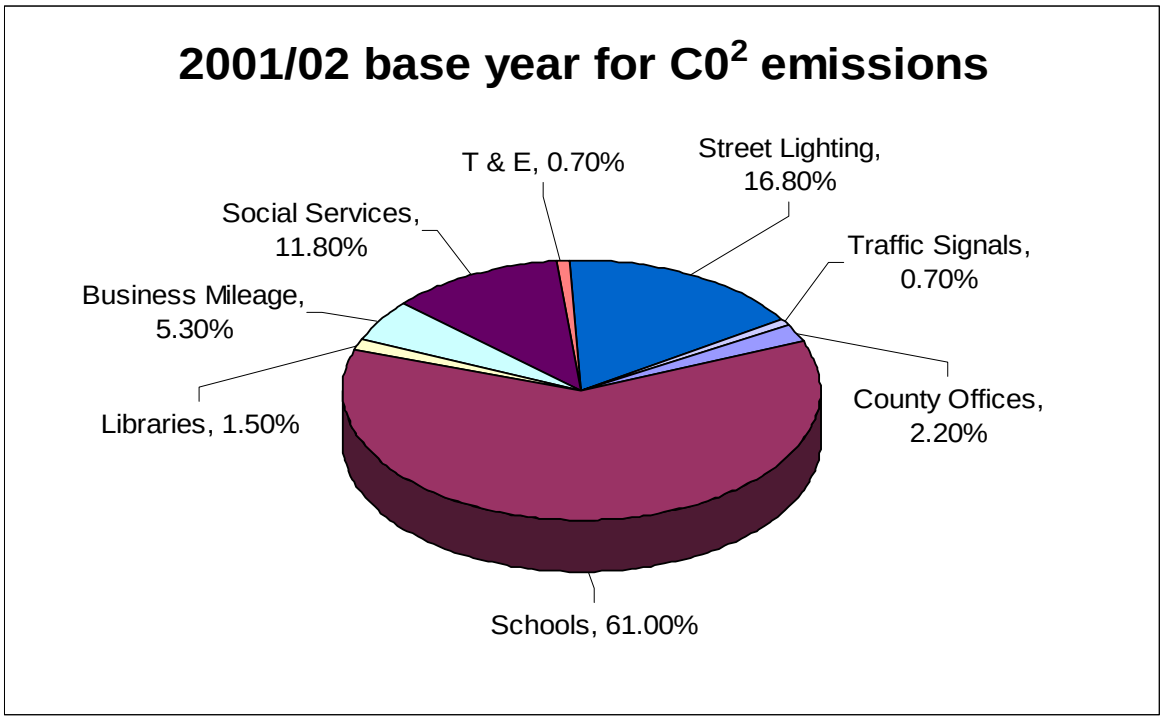
5.1 The County Council adopted 2001/02 as the baseline year for measuring carbon emissions, business mileage and bicycle mileage. Data is set out in table 1 below.

| **2001/02 Baseline Year** | | | | |
|---|---|---|---|---|
| | $CO^2$ | $\%CO^2$ | £ | %£ |
| Schools | 23,184.2 | 61.0 | 1,721,767 | 35.0 |
| T&E | 272.7 | 0.8 | 26,529 | 0.5 |
| Libraries | 559.6 | 1.4 | 47,170 | 1.0 |
| County Offices | 818.8 | 2.2 | 116,787 | 2.4 |
| Social Services | 4,502.5 | 11.8 | 300,056 | 6.0 |
| Street Lighting | 6,384.7 | 16.8 | 566,535 | 11.5 |
| Traffic Signals | 257.1 | 0.7 | 23,673 | 0.6 |
| Business Mileage | 1,997.7 | 5.3 | 2,118,046 | 43.0 |
| TOTALS | 37,977.3 | 100 | 4,920,563 | 100 |

**Table 1: Baseline Emissions and Costs**

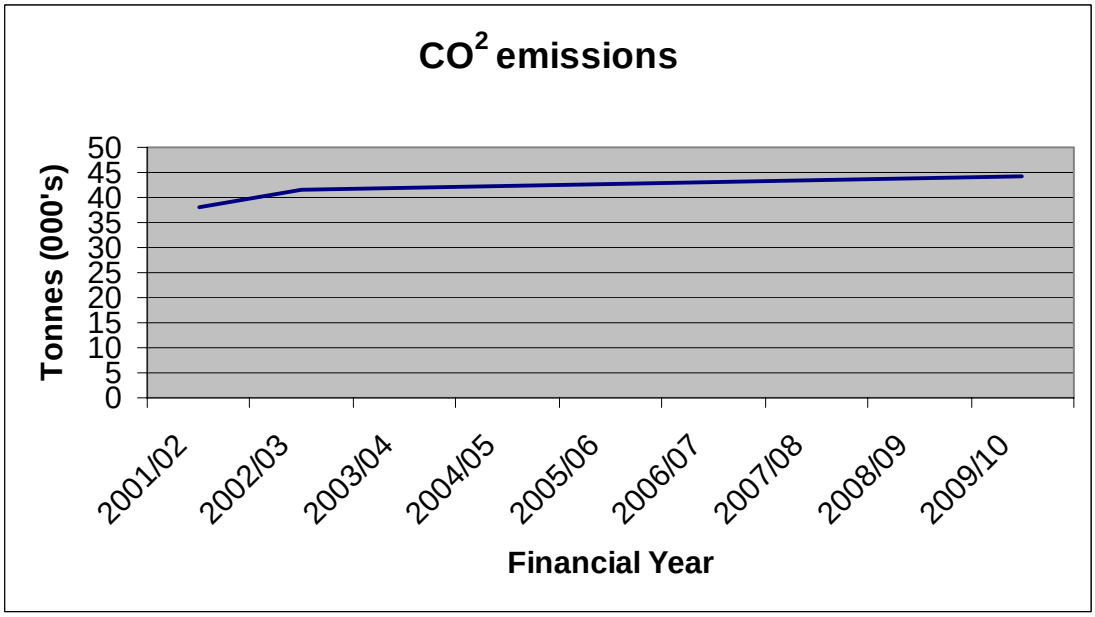
From this it can be seen that $CO^2$ emissions from County Council activities totalled nearly 38,000 tonnes in 2001/02 with associated costs of £4.92 million.

Sources for $CO^2$ emissions contribute toward the total as shown in figure 1 below.




Note: County Offices includes the headquarters functions of all departments plus Register Offices. Education non-school functions such as youth centres are included in figures for schools and constitute 2% of the schools total.

5.2 Without intervention carbon emissions can be projected to increase as follows:



Therefore the "business as usual" scenario will see significant growth in carbon emissions. Figures to 2003/04 are actuals and the trend is projected beyond that date. The cost of energy will increase also, and to a greater extent – wholesale energy costs are forecast to rise another 30% during 2005. The business case for reducing carbon emissions is therefore sound, as it will also reduce energy costs, or the impact of increased costs.

5.3 The interventions outlined in this plan will seek to reduce carbon emissions as follows:

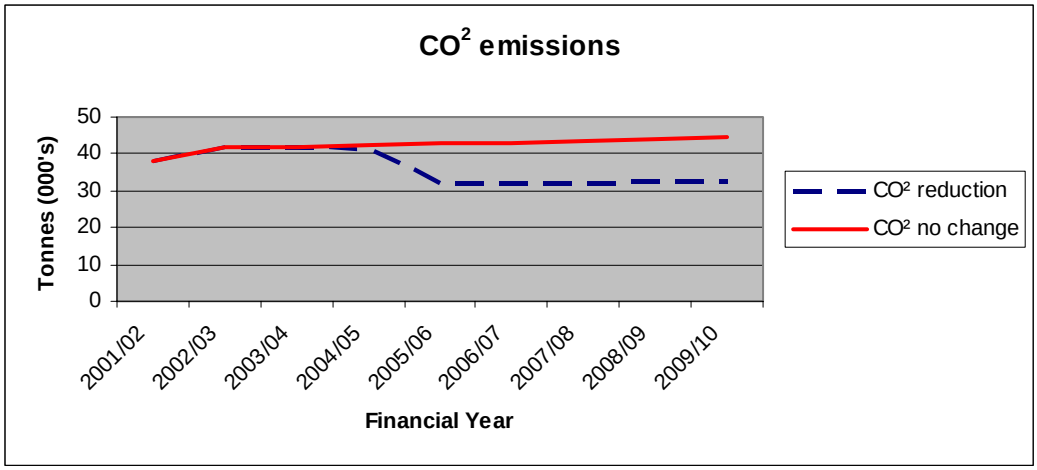



Table 2 demonstrates actions proposed, their cost, savings they will achieve and the resultant decrease in carbon emissions.

| | 2002/03 | 2003/04 | 2004/05 | 2005/06 | 2006/07 | 2007/08 | 2008/09 | 2009/10 |
|---|---|---|---|---|---|---|---|---|
| **Expenditure (£)** | **Actual** | **Actual** | **Estimated** | **Plan** | **Plan** | **Plan** | **Plan** | **Plan** |
| Housekeeping-Corporate Estate | | | | | | | | |
| C.Hall 'Green' Electricity | 150 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| C.Hall Boiler Control | 1947 | | | | | | | |
| C.Hall Pipework Insulation | | | | 1000 | | | | |
| C.Hall VSD for Heating Pump | | | | 10000 | | | | |
| S.Services Boiler Controls (x14) | | | 24000 | | | | | |
| S.Services Pipework Insulation (x15) | | | | 13695 | | | | |
| Parkmead Sch Geothermal Heating | | | 50000 | | | | | |
| Ringmer CC PV Cells | | 0 | | | | | | |
| Culfail Tunnel Lighting Controls | | | | | 11200 | | | |
| County Hall lighting controls | | | | 17000 | | | | |
| County Hall PowerPerfector | | | | 16500 | | | | |
| Non Half Hourly Green Electricity | | | | | | | | |
| Street Lighting 25% Green Electricity | | | | 2775 | | | | |
| Boiler Controls for Schools | | | | 30000 | 30000 | 30000 | | |
| Plant Room Insulation for Schools | | | | | | | | |
| PowerPerfector for Schools | | | | | 20000 | 20000 | 20000 | |
| Lighting Controls for Schools | | | | | | | | |
| Pilot biomass boiler | | | | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Savings (£)** | | | | | | | | |
| Housekeeping-Corporate Estate | | | | 5000 | 5000 | 5000 | 5000 | 5000 |
| C.Hall 'Green' Electricity | | | | | | | | |
| C.Hall Boiler Control | 400 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 | 5470 |
| C.Hall Pipework Insulation | | | | 350 | 700 | 700 | 700 | 700 |
| C.Hall VSD for Heating Pump | | | | 350 | 685 | 685 | 685 | |
| S.Services Boiler Controls (x14) | | | 8000 | 18500 | 18500 | 18500 | 18500 | 18500 |
| S.Services Pipework Insulation (x15) | | | | 5000 | 10024 | 10024 | 10024 | 10024 |
| Parkmead Sch Geothermal Heating | | | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| Ringmer CC PV Cells | | 300 | 700 | 700 | 700 | 700 | 700 | 700 |
| Culfail Tunnel Lighting Controls | | | | | 1000 | 2200 | 2200 | 2200 |
| County Hall lighting controls | | | | 1350 | 5425 | 5425 | 5425 | 5425 |
| County Hall PowerPerfector | | | | 4750 | 9475 | 9475 | 9475 | 9475 |
| Non Half Hourly Green Electricity | | | | | | | | |
| Street Lighting 25% Green Electricity | | | | | | | | |
| Boiler Controls for Schools | | | | 6500 | 20000 | 33620 | 40680 | 40680 |
| Plant Room Insulation for Schools | | | | | | | | |
| PowerPerfector for Schools | | | | | 5740 | 17220 | 28700 | 34440 |
| Lighting Controls for Schools | | | | | | | | |
| Pilot biomass boiler | | | | | | | | |
| **Savings (Tonnes $CO^2$)** | | | | | | | | |
| Housekeeping-Corporate Estate | | | | 57 | 57 | 57 | 57 | 57 |
| C.Hall 'Green' Electricity | 295 | 687 | 687 | 687 | 687 | 687 | 687 | 687 |
| C.Hall Boiler Control | 7 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| C.Hall Pipework Insulation | | | | 4 | 8 | 8 | 8 | 8 |
| C.Hall VSD for Heating Pump | | | | 6 | 11 | 11 | 11 | 11 |
| S.Services Boiler Controls (x14) | | | 120 | 281 | 281 | 281 | 281 | 281 |
| S.Services Pipework Insulation (x15) | | | | 60 | 122 | 122 | 122 | 122 |
| Parkmead Sch Geothermal Heating | | | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 |
| Ringmer CC PV Cells | | 4 | 9 | 9 | 9 | 9 | 9 | 9 |
| Culfail Tunnel Lighting Controls | | | | | 20 | 47 | 47 | 47 |
| County Hall lighting controls | | | | 14.5 | 58 | 58 | 58 | 58 |
| County Hall PowerPerfector | | | | 47 | 94 | 94 | 94 | 94 |
| Non Half Hourly Green Electricity | | | | 7575 | 7575 | 7575 | 7575 | 7575 |
| Street Lighting 25% Green Electricity | | | | 1545 | 1545 | 1545 | 1545 | 1545 |
| Boiler Controls for Schools | | | | 94 | 283 | 472 | 567 | 567 |
| Plant Room Insulation for Schools | | | | | | | | |
| PowerPerfector for Schools | | | | | 60 | 180 | 300 | 360 |
| Lighting Controls for Schools | | | | | | | | |
| Pilot biomass boiler | | | | 80 | 130 | 130 | 130 | 130 |
| **Totals** | | | | | | | | |
| Expenditure (£) | 2097 | 300 | 74300 | 91270 | 61500 | 50300 | 20300 | 300 |
| Savings (£) | 400 | 5770 | 16170 | 49970 | 84719 | 111019 | 129559 | 134614 |
| Savings - Expenditure (£) | -1697 | 5470 | -58130 | -41300 | 23219 | 60719 | 109259 | 134314 |
| Cumulative (£) | -1697 | 3773 | -54357 | -95657 | -72438 | -11719 | 97540 | 231854 |
| Savings (Tonnes $CO^2$) | 302 | 778 | 921.4 | 10564.9 | 11045.4 | 11381.4 | 11596.4 | 11656.4 |
| Cumulative (Tonnes $CO^2$) | 302 | 1080 | 2001.4 | 12566.3 | 23611.7 | 34993.1 | 46589.5 | 58245.9 |

## 6. CARBON MANAGEMENT ACTION PLAN GOVERNANCE AND OWERSHIP

6.1 This plan is a corporate response to the need to reduce the County Council's carbon emissions and reduce operational costs. In operational terms as demonstrated by the baseline data, all departments and operational units will need to contribute towards the emissions reduction target. However, key people responsible and accountable for the action plan will be:

| | |
|---|---|
| Alex Sava | Chair of Environmental Management of Buildings Group (EMBG), which is to be re-named as the Carbon Management Group (CMG). |
| Andy Arnold | Environmental Co-ordinator, Transport & Environment Department |

6.2 The following table highlights some of the key areas of activity necessary for the plan to be sustained, and officers responsible for each area.

| | Responsible Person | | |
|---|---|---|---|
| Activity | Director | Lead Officer | Support Officer |
| Carbon Management Action Plan<br>• Formulation & Promotion<br>• Manage action plan<br>• Monitor, review and report | <br>Sean Nolan<br>Sean Nolan<br>Sean Nolan | <br>John Morris<br>Alex Sava<br>Alex Sava | <br>Chris Horwell/<br>Andy Arnold |
| Carbon Management in Buildings | Sean Nolan | Alex Sava | Chris Horwell |
| Carbon Management in Street Lighting and Traffic Signals | Bob Wilkins | Derek Cox | Andy Arnold |
| Carbon Management in Fleet Transport | Bob Wilkins | Kevin Staff | Andy Arnold |
| Business Travel and Staff Commuting | Bob Wilkins | John Robbins | Brian Deval |

## 7.0 REPORTING AND EVALUATION

7.1 This Action Plan will be monitored and reviewed at the bi-monthly meetings of the Carbon Management Group which will now supersede the County Council's Environmental Management of Buildings Group as this Action Plan has a wider scope than the previous Corporate Property Energy Strategy.

7.2 An annual report on progress and review of the plan and its targets will be submitted to the Lead Member for Transport & Environment and Audit and Best Value Scrutiny Committee.

## 8.0 FINANCING

8.1 £100k each year from 2005/06 has been provided for in the County Council's capital programme for 'Invest to Save, Energy and Water Efficiency Schemes'. Where possible this will be used to lever in external funds, for example the opportunity to develop a fund for energy-saving projects which uses savings generated to invest in further projects will be explored.

8.2 In general resources will be targeted to projects that achieve a financial pay-back of five years or less.

## 9.0 CARBON MANAGEMENT ACTION PLAN

9.1 The ESCC Corporate Property Energy Strategy adopted in March 2004 established a target to contribute towards the Government target of a 20% $CO^2$ reduction from 1990 levels by 2010. This has proved to be a challenging target.

9.2 During 2003/04 the saving achieved was 1.8% against a 3% target. During 2004/05 the cumulative saving over both these years is expected to be 4.2%. This action plan shows how a reduction of nearly 14% from the 2001/02 baseline can be achieved by 2009/10. Looked at another way, this would be a 27% reduction from the "business as usual" projection as at 2009/10. The most significant contribution will be from the switch to procuring electricity generated from renewable sources.

9.3 At the same time the table 2 demonstrates the economic case. By 2007/08 savings start to overtake investment and from 2008/09 the savings outweigh investment by £97,490, rising to £231,804 in 2009/10.

9.4 The Action Plan which follows sets out the specific actions to be taken. This will be used for monitoring and review annually to refine targets according to progress, and to consider new initiatives. Table 2 will be updated accordingly.

| **CM1** | East Sussex County Council's objective is to manage our assets better, in order to reduce energy consumption and consequential greenhouse gas emissions, thereby reducing adverse impacts on our environment and to help preserve the natural beauty of East Sussex. | | | | | |
|---|---|---|---|---|---|---|
| | **What we hope to achieve** | **What we will do and when** | **How we will measure our success** | **RAG** | **Comment / Current Position** | **Contact** |
| CM1.1 | Ensure that the energy strategy is linked to and supports the wider Carbon Management Group (CMG) initiative developed from the Audit and Best Value Scrutiny Committee report. (EMBG E1.1) | Achieve adoption by Chief Officers Management Team (COMT)<br>Update the actions from this plan on a regular basis and provide a report to the Carbon Management Group (CMG) to fit with their meeting timetable. | CMAP adopted by COMT<br>CMG fully informed on the progress being made towards meeting the goals of the energy strategy action plan. | | Report due to be submitted to COMT 21 March 2005<br>Bi-monthly updates provided to the CMG. | John Morris<br><br>Rex Heasman/Chris Horwell |
| CM1.2 | Improve the overall energy performance of the Council's portfolio of buildings in support of BVPI 180 and the CMAP.<br>(EMBG E2.1) | Update annually the league table of all operational properties to show the Normalised Performance Indicator (NPI) for each for comparison with Government published data on an annual basis.<br><br>Identify poor performing properties to target for further investigation in order to identify improvement strategies/schemes. | List of properties identified for surveys/investigation.<br><br>A year on year improvement in energy performance of the operational properties portfolio. | | League table produced and poor performing buildings identified for further investigation.<br><br>Four energy surveys with reports obtained from 'Action Energy' to assist in targeting buildings. | Rex Heasman/Chris Horwell |
| CM1.3 | To demonstrate and promote the potential of wood as a fuel by installing biomass fuel boilers in selected ESCC properties in accordance with ESCC Biomass Fuel Boiler Strategy. (EMBG E2.2) | Implement one trial site during 2005/06 and review for demonstration site installation during 2006/07 and if successful strategy to be adopted for all capital/revenue boiler projects. | Trial installation in place | | Biomass strategy approved by Cabinet 6/4/04.<br><br>Scheme for Beacon Community College being developed and if viable will progress during summer 2005. | Rex Heasman/Peter Bowley |

| **CM1** | East Sussex County Council's objective is to manage our assets better, in order to reduce energy consumption and consequential greenhouse gas emissions, thereby reducing adverse impacts on our environment and to help preserve the natural beauty of East Sussex. | | | | | |
|---|---|---|---|---|---|---|
| | **What we hope to achieve** | **What we will do and when** | **How we will measure our success** | **RAG** | **Comment / Current Position** | **Contact** |
| CM1.4 | Establish the potential for Geo-thermal heating of ESCC buildings in support of renewable / sustainable energy initiative. (EMBG E2.2) | Review performance by March 2006 to extend to other projects the geo-thermal heating system for the Park Mead School hall extension and potential. | Completion of review | | Scheme at Park Mead installed during summer 2004. Analysis of the system performance to be assessed to establish the payback period for viability of other schemes. | Rex Heasman/ Capital Projects Team Leader |
| CM1.5 | To reduce the amount of $CO_2$ produced by ESCC's use of electricity. (EMBG E2.3) | Ensure that each time a tender is produced for procurement of electricity that it includes an option to purchase all or a percentage of electricity generated from renewable sources and if economically viable to take-up the option at the contract stage. Target: 50% from renewable sources. | Percentage of electricity supplied to ESCC provided from renewable sources. | | County Hall is currently supplied from renewable sources representing around 6% of ESCC operational building usage. A saving of approximately 500 tonnes $CO_2$ per annum will be achieved. Contract for other sites now switching to green electricity. | Rex Heasman/Chris Horwell |
| CM1.6 | Reduction in electricity consumption through voltage control. | Evaluate potential for installation of pilot transformer at County Hall. | Outcome of evaluation and possibility of installation. | | Exploring potential with supplier for installation at County Hall. | David Church/Chris Horwell |
| CM1.7 | Energy efficient design for all capital works schemes incorporating best practice and consideration of current environmental management guidance. (EMBG E3.1) | Ensure that Consultants use the ESCC Environmental 'Sustainable Building' Brief and proactively challenge design assumptions.<br><br>Use of 'life cycle analysis' techniques for new-build capital projects and extensions to existing buildings to select the most appropriate environmentally friendly technology. | Capital schemes completed with lower environmental impact and improved energy performance in terms of usage per square meter of floor area. | | Project Officers to challenge schemes design brief.<br><br>Targets of energy use per square meter of floor area to be incorporated into briefing documents. | Rex Heasman/Capital Projects Team Leader |

| CM1 | East Sussex County Council's objective is to manage our assets better, in order to reduce energy consumption and consequential greenhouse gas emissions, thereby reducing adverse impacts on our environment and to help preserve the natural beauty of East Sussex. | | | | | |
|---|---|---|---|---|---|---|
| | **What we hope to achieve** | **What we will do and when** | **How we will measure our success** | **RAG** | **Comment / Current Position** | **Contact** |
| CM1.8 | Improve 'Sustainable Building' brief. | Review update and revise the brief during 2005/06 to make it target based with more measurable outputs. | Sustainable building brief reviewed. | | Existing brief with consultants for comment. | Rex Heasman/ Matthew Powell |
| CM1.9 | To improve the efficiency in use of water resources within ESCC buildings. (EMBG E4.2) | Carry out efficiency improvement measures at St Mary's House and Beaconwood by 2006. | A measurable reduction in the amount of water used by each building. | | Surveys completed. Works planned. League table produced and poor performing buildings identified for further investigation. Water efficiency improvements will save energy through reduced pumping costs and hot water heating costs. | Rex Heasman/ Chris Horwell |
| CM1.10 | To evaluate the potential of further boiler burner management controls to save energy in existing buildings and if successful develop an implementation strategy. (EMBG E4.2) | Install controls at County Hall for close monitoring and report findings by February 2004.<br><br>Review outcomes from installations at County Hall and 14 Social Services premises and develop strategy to roll out in 2005/06. | Trial controls evaluated and if savings possible strategy for implementation at other sites in place. | | Controls fitted at County Hall in and 14 other premises in 2004/05. If successful use of these controls will be rolled-out to other sites. | Rex Heasman/Chris Horwell |
| CM1.11 | Establish effectiveness and energy saving potential of variable speed drives for control of heating pumps. If proved to be successful implement roll-out to other sites and include in capital schemes. (EMBG E4.2) | During 2005/06 install a variable speed control for the heating pumps at County Hall to match the heat delivery to demand of the building.<br><br>Problem of zone valves 'letting-by' due to over-pumping eliminated, giving rise to improved room temperature control and reduced energy consumption. | By installation and measurement of consumption. | | Not currently started but progress to be made during 2005. | Rex Heasman/Peter Bowley |

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|---|---|---|---|---|---|---|
| | **What we hope to achieve** | **What we will do and when** | **How we will measure our success** | **RAG** | **Comment / Current Position** | **Contact** |
| CM1.12 | Accurate records of consumption and cost for energy and water supplies at each property on the Council's property portfolio. (EMBG E4.2) | Maintain an accurate and up to date monitoring and targeting database of consumption and cost records for each supply at each property.<br><br>Energy and water billing data input onto the monitoring database within one month of receipt of the invoice.<br><br>Where possible ensure that suppliers provide billing information electronically. | All billing data input within defined timescale.<br><br>Up to date reports available to identify trends and anomalies in consumption usage.<br><br>Increased in Council's suppliers providing electronic data. | | Energy database has been in place for a number of years providing good historical records for each building. Resources to be managed to cope with periods when large volumes of energy and water invoices are received in order that information is input within agreed timescale.<br><br>Currently one supplier is providing electronic billing data. | Rex Heasman/Chris Horwell |
| CM1.13 | Assist ESCC Schools in improving their overall energy performance in support of DfES requirements. (EMBG E4.2) | Update annually the league table of all schools to show the Normalised Performance Indicator (NPI) for each for comparison with Government published data on an annual basis.<br><br>Identify poor performing schools and provide report to each advising for further investigation in order to identify improvement strategies/schemes.<br><br>Obtain advice from Energy Advice Centre on how to improve service to schools. | List of schools identified for reports, advice and surveys/investigation.<br><br>A year on year improvement in energy performance of the schools portfolio.<br><br>By relaunch of service in 2005/06. | | Performance information provided to each school. The latest information to be provided once this is available.<br><br>Assistance is provided to those schools buying into the energy and water management service offered as part of the 'Service to Schools' package.<br><br>Working with EAs to develop strategy. | Rex Heasman/Chris Horwell<br><br>Peter Bowley/Chris Horwell |

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|---|---|---|---|---|---|---|
| | **What we hope to achieve** | **What we will do and when** | **How we will measure our success** | **RAG** | **Comment / Current Position** | **Contact** |
| CM1.14 | Secure sources of external and matched funding partnerships to improve value for money and increase the potential of marginal energy efficiency schemes being completed. (EMBG E5.1) | Work with T&E Environmental Coordinator to monitor and identify funding opportunities from Government, the EU and other organizations to apply for at least two external funds per year.<br><br>Assist in applying for funding where approved and agreed or promote source of funding to budget holder e.g. schools where project funded direct. | Number of sources of funding identified and successful outcome of bidding for funds. | | Preparing to apply for matched funding grant from the Carbon Trust for developing an energy 'invest to save' fund for schemes within the Local Authority estate. | Rex Heasman/Chris Horwell |
| CM1.15 | Raise staff awareness on the implications of their energy use with resultant reduction in wasted energy. (EMBG E5.2) | Provide support to the annual energy awareness campaign which is run to coincide with the Government's Energy Saving Trust's 'Energy Efficiency Week'. | Annual energy awareness campaign implemented. | | Once the 2005 'Energy Saving Week' (normally runs in September) is confirmed a campaign will be developed. | Rex Heasman/Chris Horwell |
| CM1.16 | Assist staff to identify ways in which they can help to minimise use, or reduce waste of energy and water. (EMBG E5.3) | Produce a 'Good Housekeeping Guide' for staff that can be promoted on the Council's Intranet site by 30/09/05. Provide regular updates and new information to keep it fresh and relevant. | Intranet information available for staff reference and the use or number of visits recorded on the site. | | A good housekeeping guide is developed and is available for distribution later in 2005. | Rex Heasman/Chris Horwell |
| CM1.17 | Economy in use of lighting at County Hall | Install passive infra-red lighting controls | Through consumption data | | Will automatically switch off lights in unused areas | Rex Heasman/Chris Horwell |
| CM1.18 | Lower heating fuel consumption | Provide additional insulation to plant rooms in County Hall and 14 Social Services premises | Through consumption data | | Current insulation levels can be improved | Rex Heasman/Chris Horwell |
| | | Install Building Energy Management System at County Hall | Through consumption data | | Will provide better control over heating levels | Rex Heasman/Chris Horwell |

| CM1 | East Sussex County Council's objective is to manage our assets better, in order to reduce energy consumption and consequential greenhouse gas emissions, thereby reducing adverse impacts on our environment and to help preserve the natural beauty of East Sussex. | | | | | |
|---|---|---|---|---|---|---|
| | **What we hope to achieve** | **What we will do and when** | **How we will measure our success** | **RAG** | **Comment / Current Position** | **Contact** |
| | | Install thermostatic radiator valves at County Hall | Through consumption data | | At present some areas are being over heated | Rex Heasman/Chris Horwell |
| CM1.19 | Better management control over fuel consumption | Provide training to Controllers of Premises | Through roll-out of training | | Controllers of premises are responsible for day-to-day management of many buildings | Chris Horwell |
| CM1.20 | Purchase of green electricity for street lights | Seek to achieve 25% green electricity on re-tender in May 2005 | By evaluating outcome of tenders | | No green electricity currently purchased for street lighting | Andy Arnold/Derek Cox |
| CM1.21 | Reduce proportion of illuminated street signs | Where possible use diamond-grade reflective signs instead | By measuring number of diamond-grade signs installed | | This will be a change in policy facilitated by development of signs with greater reflectivity | Andy Arnold/Derek Cox |
| CM1.22 | Reduce vehicle trips for maintenance of street lights | Implement policy of 'find and fix' of expired lamps in one visit | By measuring reduction in vehicle mileage | | Current practice is to have separate journeys to survey lamps and to repair them | Andy Arnold/Derek Cox |
| CM1.23 | Procure more fuel efficient vehicles | Review specification when replacing vehicle fleet or re-tendering highways maintenance contract | By change of specification and consequent fuel reduction | | | Andy Arnold/Kevin Staff |
| CM1.24 | Review of staff travel plan targets | Review of targets in the light of performance to April 2005 | By adoption of reviewed targets | | Current targets were set to be achieved by April 2005 from a 2000/01 base. These are now due for review | John Robbins/Brian Deval |
| CM1.25 | Less $CO^2$ emissions from vehicles | Develop a Corporate Vehicle Replacement Policy which considers use of alternative fuels, $CO^2$ performance | By implementation of policy and measuring against current baseline | | | Derek Cox |
| CM1.26 | Lower emissions due to street lighting | Develop a zoning system with differential levels of lighting for different environments | By measuring energy use and $CO^2$ emissions | | | Derek Cox |