

Cambridgeshire Constabulary **Energy Reduction Action Plan**



This document was created as a result of the increasing need to reduce energy consumption within Cambridgeshire Constabulary. The most significant cause of this pressure is the Carbon Reduction Commitment (CRC). This mandatory Government carbon trading scheme has the potential to inflict considerable financial penalties on the Force if we do not curb our energy usage.

The objective of the Action Plan is to enable a structured and sustained approach to energy-efficiency projects. The Action Plan will be delivered by the Energy Management Group (EMG), which consists of Business Managers and other key individuals. The responsibilities of the group members are outlined below.

Responsibilities

- i) Senior Management Representative**
 - Supporting the Energy Management Group and its activities at a strategic level.

- ii) Environment Officer**
 - Initiating, co-ordinating and updating the Action Plan.
 - Providing assistance to divisions on projects.
 - Arranging the Energy Management Group meetings.

- iii) Business Managers**
 - Overseeing the implementation of this Action Plan within their divisions.
 - Maintaining records and providing information as required by the Environment Officer.
 - Attending all Energy Management Group meetings, or sending an appropriate member of staff, to update the group on projects.
 - Encouraging and motivating their staff to take active roles in energy and environmental projects.

- iv) Estates Managers**
 - Attending all Energy Management Group meetings.
 - Providing advice and assistance to all divisions for projects involving plant and/or equipment.

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Draft Action Plan for Energy Efficiency Projects

Project No.	Project Type	Project Details	Responsibility	Estimated Costs	Timescales
1 Green	Lighting	Replace the 5ft and 6ft T8 light tubes with energy-efficient T5 tubes.	Business Managers, Environment Officer	500 tubes= £11,087.50 supply & installation. Approx total cost savings years 1-5 of £32,013. Pay back in 1 year, 9 months.	To be discussed at EMG meeting.
2 Green	Lighting	Install lighting sensors in corridors, meeting rooms and bathrooms as minimum and offices where possible.	Business Managers, Environment Officer	Sensors cost approx £20-60 each, excl installation. Could save ~10% on electricity bills (~£60,000 for the Force).	To be discussed at EMG meeting.
3 Green	Building Management Systems	Ensure all larger buildings are fitted with a BMS and the caretakers and relevant members of staff know how to use it and extract the appropriate information.	Estates, Business Managers	Quote of approximately £5,000 per site.	To be discussed at EMG meeting. HQ buildings first.
4 Amber	Lighting	Develop a purchasing procedure to ensure all replacement lights are energy efficient, with converters.	Estates, Procurement	5ft & 6ft T5 tubes last 5 yrs longer than T12 tubes. Cost £13.75 for 25 ballasts & £1.50 per tube.	2 months
5 Amber	Building Management Systems	Remove personal controls of heating and air conditioning systems.	Estates	Unknown	Approx 6 months per site.
6 Amber	Monitoring & Targeting	Install data loggers in all HH sites. Analyse and publish the data on a quarterly/ 6 monthly basis.	Environment Officer	1 data logger lease = £145 per year. £30 p/h to install. Estimated 5% savings on HH energy bills (~£25,000pa saving).	Loggers to be installed by Oct/Nov 2009.
7 Amber	Plant & Equipment	Reset all computer power-saving settings.	ICT Department	ICT staff time	Due to be completed by December 2009.
8 Amber	Plant & Equipment	Re-set air conditioning cleaning contracts to 6-monthly.	Estates	Cost caretaker time but would save ~10-20% on air-conditioning unit's energy consumption.	To be discussed at EMG meeting.
9 Amber	Staff awareness	Staff awareness campaign. Energy reduction competition between divisions.	Environment Officer, Business Managers	Cost of posters (approx £150) and staff time.	Starting autumn 2009, lasting at least 1 year.

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10 Red	Plant & Equipment	Fit timers to cold drink vending machines.	Business Managers, Estates	Approx £10 each	Approx 1 months per site.
11 Red	Plant & Equipment	Fit timer controls to hot water storage heaters.	Business Managers, Estates	Approx £75 each with savings of £147 per year.	Approx 2 months per site.
12 Red	Staff awareness	Conduct a staff questionnaire of office equipment habits. Repeat after awareness campaign.	Environment Officer	Staff time	First surveys/questionnaires in Oct/Nov 2009.

Key:

Green = High potential cost savings.

Amber = Good potential cost savings.

Red = Some potential cost savings.

The Carbon Trust Energy report estimates savings of £56,020pa if these projects are implemented at HQ. Projects 1, 2, 3, 4, 6 and 9 have already been started. However, only projects 1, 2 and 6 have been fully implemented at certain sites.

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