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# Carbon Management Plan 2011 - 2016





## Management Summary

The Government has set a long term target of reducing UK CO<sub>2</sub> emissions by 80%, against 1990 levels, by 2050. As a large publicly funded organisation, Avon and Somerset Police recognises the need to show a strong commitment and lead by example to minimise, as far as practicable, the environmental impact of its operations.

The strength of this commitment is demonstrated by embarking on a comprehensive Carbon Management Programme to drive down carbon emissions and significantly reduce energy consumption by 30% by March 2016, against 2009/10 levels. Not only will this reduce our carbon footprint and drive out waste, it will future proof Avon and Somerset Police in a climate of significantly reduced budgets, increasing energy costs for fossil fuels and fuel insecurity.

This Carbon Management Plan directly fits with the force's policing priority to provide value for money and make the best use of resources, as set out in the Policing Plan and Value for Money Strategy. Further, this Carbon Management Plan aligns to the force three-phase Change Programme, delivering budget savings of 20% over the next four years, in response to reductions in central funding.

### saving carbon = saves energy = saves money

In 2010, the force completed a detailed analysis of energy consumption for the year 2009/10, providing a baseline against which future progress towards a CO<sub>2</sub> reduction target could be measured. The table below (Fig 0.1) is an extract from this baseline and highlights the breakdown of energy consumption with associated cost:

	CO <sub>2</sub> (tonnes)	% of total CO <sub>2</sub>	Cost (£)
<b>Buildings</b>	12,473	64%	£ 2,696,286
<b>Transport</b>	6,853	35%	£ 2,926,755
<b>Further scope</b>	166	1%	£ 81,871
	<b>19,492</b>	<b>100%</b>	<b>£ 5,704,912</b>

Figure 0.1 Summary table of emission for baseline year 2009/10



This shows that almost two-thirds of CO<sub>2</sub> emissions arise from buildings, with just over a third from fleet although the associated cost of fleet emissions is disproportionately higher. The chart to the right (Fig 0.2) breaks-down these emissions in further detail:

Research shows that energy consumption rises steadily by around 0.7% per annum year on year, even if portfolios of buildings and vehicles remain static. Coupled with predicted increases in fuel prices and the anticipated impact of the Carbon Reduction Commitment, for Avon and Somerset Police a **30%** reduction in CO<sub>2</sub> emissions over five years could **avoid cumulative energy costs over that period of £8.8 million** for Avon and Somerset Police. In fact, achieving the 30% target could **reduce the force's annual energy bill by more than £360,000 per annum**. The graph below (Fig 0.3) highlights this cost avoidance or the **Value at Stake** if action is not taken.

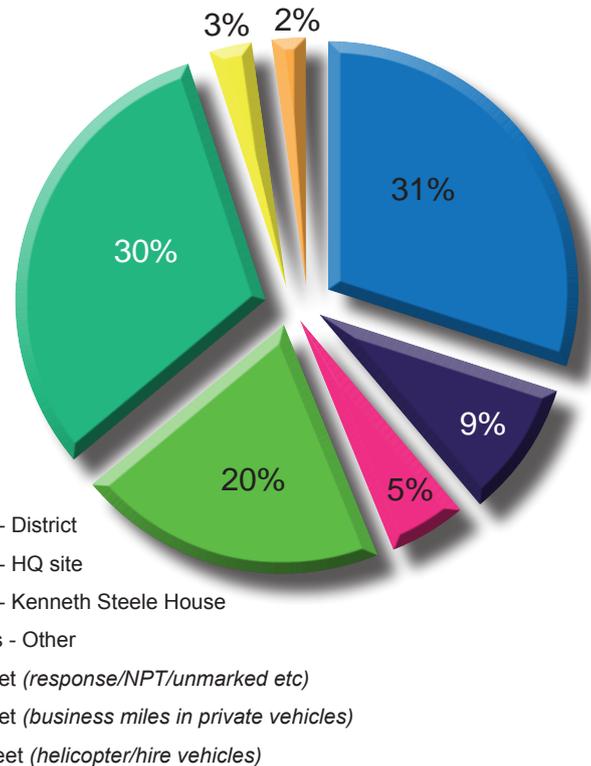


Figure 0.2 - Detailed breakdown of CO<sub>2</sub> emissions by sector

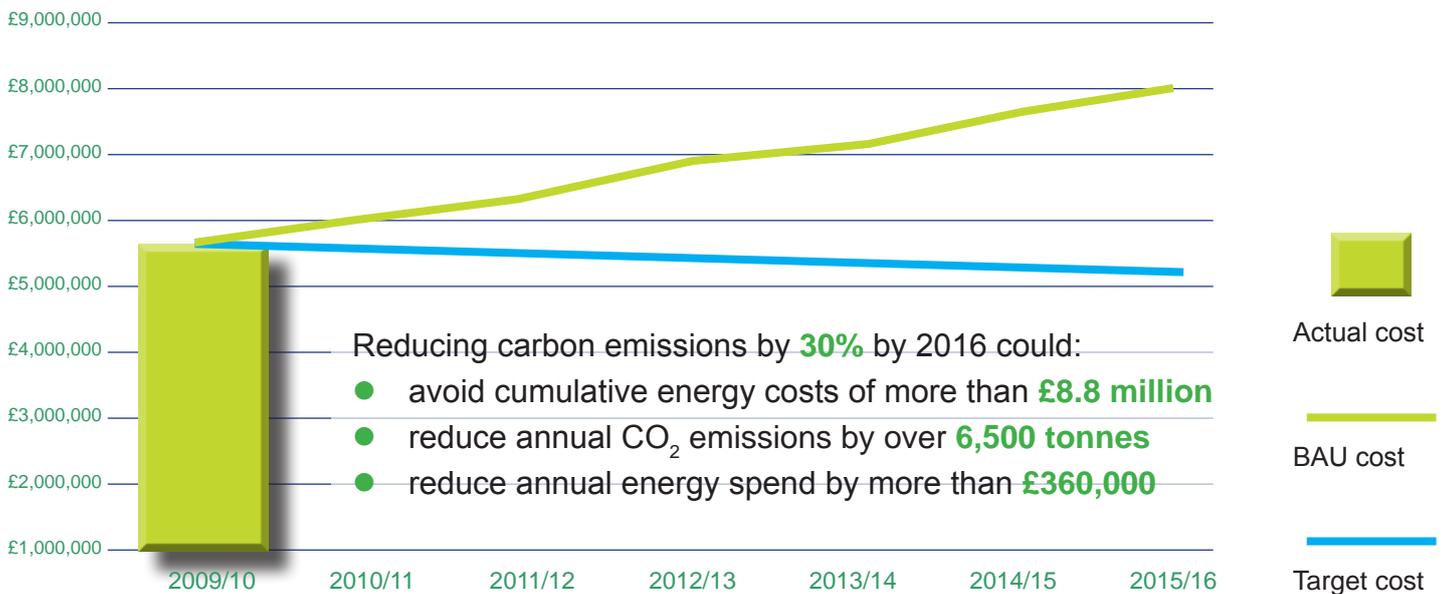


Figure 0.3 - Comparison of emissions (financial) - Business As Usual (BAU) against reduced emissions target

To achieve a 30% reduction in the CO<sub>2</sub> emissions from its operations, Avon and Somerset Police have adopted four key strategic themes:

- **Reduce energy consumption in buildings**
- **Reduce fuel costs from fleet**
- **Reduce waste**
- **Improve data collection**

Through the Carbon Management Programme and as set out in this Carbon Management Plan, an initial series of projects have been identified against each theme. Governed by the Sustainability Board under the chairmanship of the Director of Finance, and owned by a Carbon Management Team, these projects alone are anticipated to collectively deliver at least **80%** of the five year CO<sub>2</sub> reduction target, avoiding cumulative energy costs of over £7 million and saving 19,202 tonnes of CO<sub>2</sub> from an investment of around £1.7 million. Coupled with measures to embed energy saving into everyday business, further projects will be identified to ensure the five year 30% target is fully realised.

Progress against this Carbon Management Plan will be reviewed and routinely reported to the Sustainability Board, other force meetings and Police Authority Committees.

