



Swindon  
Strategic  
Partnership

# A Climate Change Action Plan for Swindon Borough 2006 – 2010

Review and Update June 2008



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# A reminder.....



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The Agreed Aims of the Action Plan:-

- Reduce Swindon's contribution to climate change (mitigation)
- Prepare Swindon for a changing climate (adaptation)
- Ensure Swindon Borough develops in a sustainable way



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We measure our progress on tackling climate change in terms of carbon dioxide (CO<sub>2</sub>) because it is now accepted that our climate is changing, primarily because of rising levels of CO<sub>2</sub>.

Most scientists agree that CO<sub>2</sub> levels are rising because of human activity

Our 'carbon footprint' must be reduced



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## SWINDON CLIMATE ACTION NETWORK



Great Western Community Forest has planted 6,100 trees since 2006



30% improvement in domestic energy Efficiency since 1996

New design codes and SPD



**Swindon Advertiser**

HAB housing



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# Swindon Borough Council's Carbon Reduction Programme



- Reduce the carbon dioxide emissions resulting from energy use in all Council buildings
- Reduce the carbon dioxide resulting from the Council's travel and transportation
- Decrease the amount of waste produced by the council which is sent to landfill
- Minimise carbon dioxide emissions from street lighting

## Target:

Reduce CO<sub>2</sub> emissions by 20% from the 2005/6 baseline by 31<sup>st</sup> March 2013

In 2005/6 (baseline year) Swindon Borough Council spent £5.2m buying electricity, gas, oil and vehicle fuel.

World energy markets are unstable and the long-term projections on energy prices are for a continuous increase.

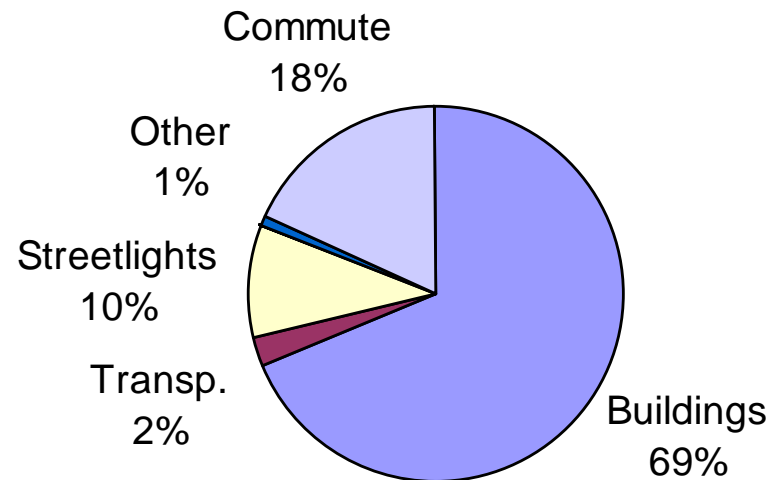
If we continue to use fuel at the current rate energy costs in 2012/13 will be £7.02m

(source: Oxera for BERR March 2008)



# SBC's Carbon footprint

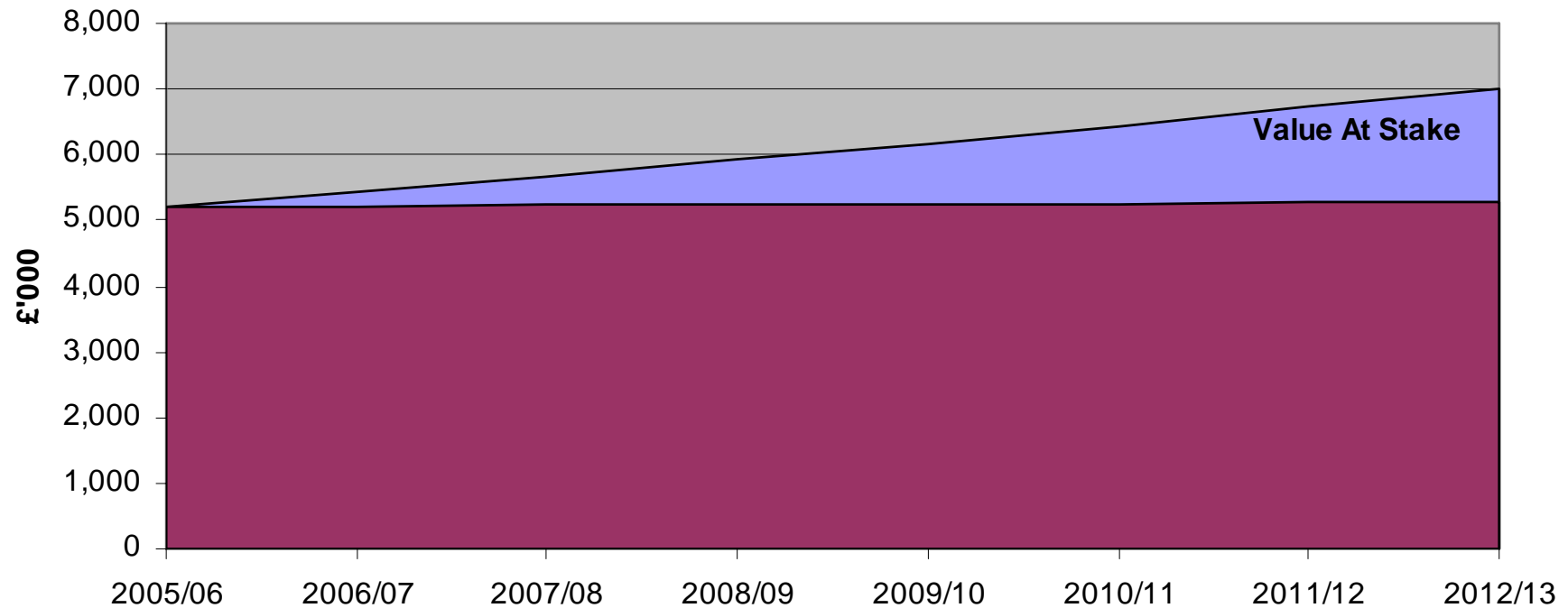
42,600 tonnes 2005/6



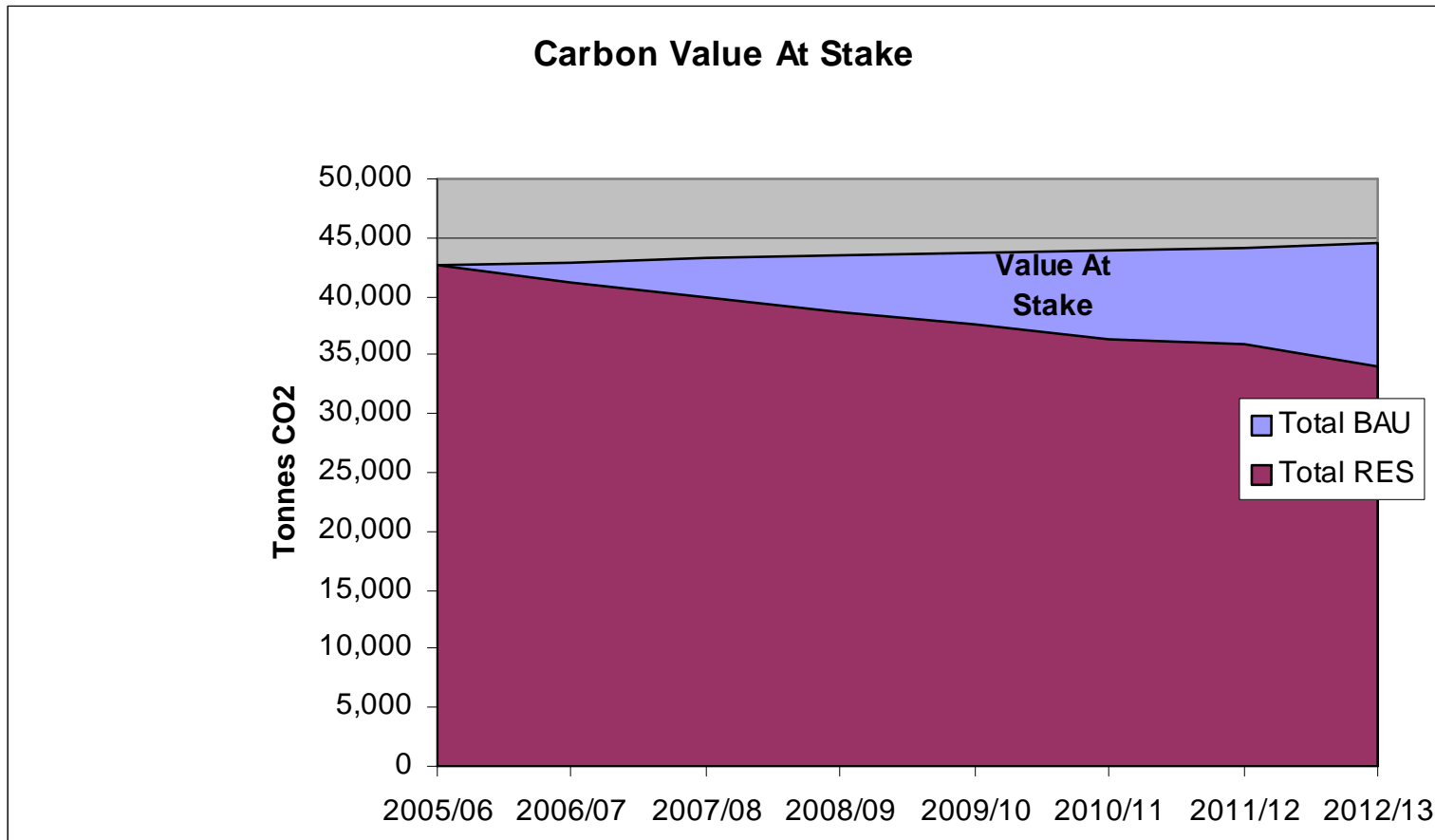
# Business as usual?

If we continue 'business as usual' we are likely to spend an additional £6.63 million (cumulative) on fuel between 2005/6 and 31<sup>st</sup> March 2013

## Value At Stake



..... and send an additional 35,000 tonnes Carbon dioxide into the atmosphere



- Over 200 carbon saving opportunities were identified as result of a workshop involving a number of key officers
- A short list of opportunities was then developed by categorising the projects according to their effectiveness at reducing CO<sub>2</sub> and their ease of implementation
- The result is a fully resourced list of projects and activities that will deliver the 20% saving by 2012/13 and will save at least £6 million + 35,000 tonnes CO<sub>2</sub>:-

CHP at the Oasis  
 Swimming Pool Covers  
 Voltage Regulation  
 Variable Speed Drives  
 Lighting Controls  
 Boiler replacement programme  
 I.T replacement programme

} 4-5%

**Cost of measures = £523,301**

**Net Annual Savings = £180,897**

**CO<sub>2</sub> savings = 1,897 tonnes per year**



# Swindon's Carbon Footprint 2005



1,401 kilotonnes carbon dioxide

- 7.6 tonnes per capita (based on 184,000 pop.)



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# Climate Change and the new Local Area Agreement

The target we are proposing with GOSW is the highest possible achievable target of a 9.2% reduction 2005-2010 equating to a 4.5% reduction 2008-2010.

This would result in a reduction of per capita CO<sub>2</sub> emissions from 7.6 in 2005 to 6.9 in 2010.

**9.2% = 129 Kilotonnes CO<sub>2</sub> by 2010**

Defra estimates that SSP partners can contribute up to a 30% reduction with local interventions

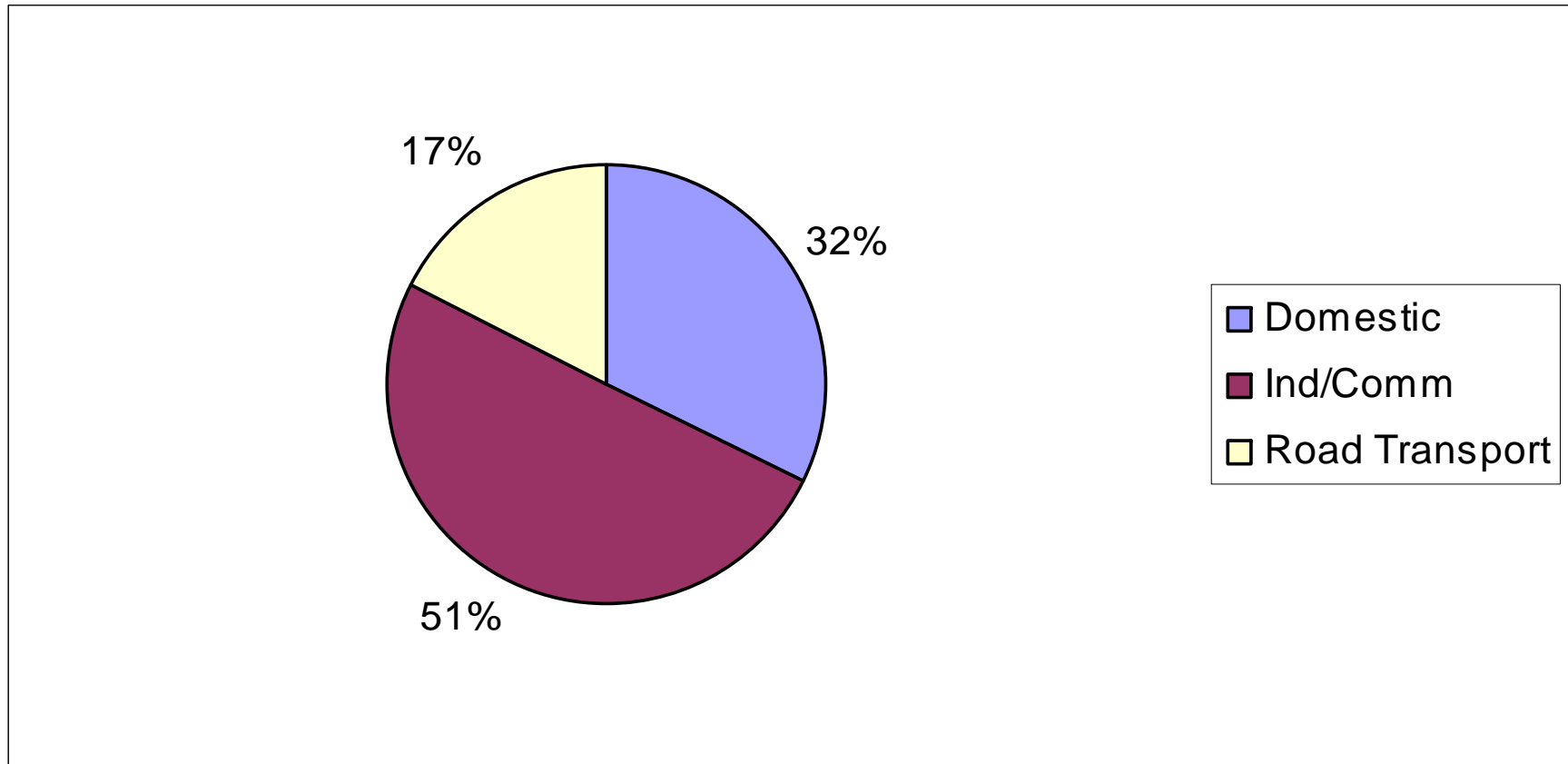
**What can we do together in the life of the LAA to contribute to reducing CO<sub>2</sub>?**



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# Swindon Borough Emissions by sector



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Domestic emissions:

10kt CO2 can be saved by treating 1,000 properties

Road transport:

1 tonne can be saved for every 3 people who sign up to

[Carshareswindon.com](http://Carshareswindon.com)

SBC Carbon Reduction

4.6 kt by 2010



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## Future activity:

Work underway to refine “Swindon Standard” and identify key opportunities for decentralised energy and sustainable construction in the Borough. (SBC)

Affordable Warmth Strategy implementation (Various partners)

Wood Pellet Project (Various partners)

New Swindon Company

SBC Carbon Management Plan



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Your input is invaluable to this work

Your ideas will be shared with all partners

All ideas and opportunities will be assessed for their effectiveness and ease of implementation

A shortlist of future activities will be developed for consideration by partners

*Thank you*



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