



**Report to; Cabinet**

**Subject: Carbon Footprint and Energy Policy**

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## Background

In January 2008, Gedling Borough Council commissioned the Carbon Trust to undertake an assessment of energy saving opportunities for the Civic Centre campus and Leisure Centres. As part of this, an accurate Carbon Footprint for the Council has been calculated, including the impact of work related and commuting vehicle movements. The Carbon Trust report then sets out a number of recommendations to reduce carbon emissions, the financial cost of these and the payback period after which the improvements will have paid for themselves through reduced energy usage.

## Carbon Footprint

### Civic Centre campus

		tCO <sub>2</sub> e	kWh/yr	%	£/yr	%
<b>Direct Emissions</b>	Gas	156.5	823,630	13	13,607	2.5
	Owned diesel car	1140.8	4,563,365	72	463,999	86.2
	Owned petrol car	46.2	192,539	3	20,404	3.8
	<b>Sub-Total</b>	<b>1343.6</b>	<b>5,579,553</b>	<b>88</b>	<b>498,010</b>	<b>92.5</b>
<b>Imported Power/ Utilities</b>	Emissions from purchase of electricity	326.4	759,062	12	40,180	7.5
	<b>Emissions Type</b>	<b>Emissions Source</b>	<b>Emissions</b>	<b>Purchased Energy</b>	<b>Cost</b>	<b>7.5</b>
<b>Other indirect emissions (i.e. not owned)</b>	Employee Travel - Diesel	853.0				
	Employee Travel - Petrol	1706.0				
	Business - Rail	1.1				
	Employee Travel – Diesel*	26.9				
	Employee Travel – Petrol*	58.0				

	<b>Sub-Total</b>	<b>2645.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
	<b>Total</b>	<b>4314.9</b>	<b>6,338,595</b>	<b>100</b>	<b>538,190</b>	<b>100</b>

\* Employee travel - Diesel/Employee travel - Petrol: The emissions have been quantified from the allowance of mileage for the employee/s using their own vehicles for work purposes.

## Leisure Centres

Emissions Type	Emissions Source	Emissions	Purchased Energy		Cost	
		tCO <sub>2</sub> e	kWh/yr	%	£/yr	%
<b>Direct Emissions</b>	Gas	877.0	4,616,014	56.1	84,050	29.8
	Coal	54.5	181,658	2.2	3,971	1.4
	Fuel Oil	61.7	237,232	2.9	7,591	2.7
	Wood Pellets	0	254,470	3.1	10,092	3.6
	<b>Sub-Total</b>	<b>993.2</b>	<b>5,289,374</b>	<b>64.3</b>	<b>105,704</b>	<b>37.5</b>
<b>Imported Power/ Utilities</b>	Emissions from purchase of electricity	1201.6	2,794,343	34.0	171,367	60.8
	CHP	0	139,865	1.7	4,774	1.7
	<b>Sub-Total</b>	<b>1201.6</b>	<b>2,934,208</b>	<b>35.7</b>	<b>176,141</b>	<b>62.5</b>
<b>Total</b>		<b>2194.8</b>	<b>8,223,582</b>	<b>100</b>	<b>281,845</b>	<b>100</b>

The total carbon footprint for Gedling Borough Council is therefore **6509.7 tonnes** CO<sub>2</sub> per year. This compares well with the previous estimate, reported to Cabinet in January 2008, of 7091 tonnes CO<sub>2</sub> per year. The comparison table reported in January has therefore been updated to reflect this more accurate figure;

<b>Local Authority</b>	<b>Carbon Total</b>
Gedling	6509
Rushcliffe	3865
County	105902
City	29123
South Derbyshire	1246
North East Derbyshire	4237

The executive summary and action plans from the reports are attached.

## Energy Policy

The work undertaken in assessing the carbon footprint of the Borough Councils activities has also been used to develop a policy to bring about short, medium and long term improvements to performance.

Aims;

1. That the Borough Council is committed to contributing to improving the local and global environment.
2. That the Borough Council commits to seeking to improve its own environmental performance.

3. That the Borough Council will seek to use its influence and resources to encourage others within the borough to take responsibility for reducing the carbon impact of their own activities and therefore contribute to meeting target NI 186 in the Nottinghamshire Partnership Local Area Agreement.

Details;

The Borough Council will aim to minimise its use of resources by;

- Minimising waste production
- Recycling and re-using more materials
- Sustainable procurement
- Investigate energy and water saving projects
- Regularly monitoring energy usage

The Borough Council will aim to protect the environment by;

- Promoting the development of renewable energy
- Promoting energy efficiency improvements in new and existing buildings
- Directing new large scale development to sustainable locations
- Enhancing the natural environment of the Borough

The Borough Council will encourage others to act more sustainably by;

- Encouraging local businesses and residents to adopt good environmental practices
- Promoting transport alternatives to car based journeys
- Monitoring CO2 emissions for the whole of the Borough
- Promoting awareness of CO2 reduction targets set out in the Local Area Agreement

Actions;

1. Review the detailed actions proposed in the Carbon Footprint report and implement those which will have the greatest impact in terms of reducing energy usage and value for money.
2. Work in partnership with the community and other bodies towards shared energy reduction goals.
3. Work with officers and elected members to raise awareness of environmental issues and their corporate responsibilities towards these.
4. Report regularly to Cabinet on energy matters and review the policy in light of this.
5. Establish an Energy Policy officer steering group, to review energy usage in all Council premises and to help implement and develop the policy.

## **Recommendations**

Cabinet is recommended to

- 1) note the results of the Carbon Footprint assessment
- 2) agree the Energy Policy as the basis for public consultation