

# GREENHOUSE GAS EMISSIONS FOR EAST LINDSEY DISTRICT COUNCIL

This is the first report of its kind for the Council. Since 2007/08, under National Indicator 185, we have collected data to evidence reductions in the main greenhouse gas thought to contribute to climate change: carbon dioxide (CO<sub>2</sub>).

This year, the Department for Energy and Climate Change (DECC) and Department for the Environment, Food and Rural Affairs (DEFRA) have asked Councils in England to publish a summary of emissions for ALL six Kyoto greenhouse gases. This is reported as the equivalent in carbon dioxide emissions (**CO<sub>2</sub>e**) using a conversion factor which takes into account the relevant contributions of each of the gases.

Emissions are reported in one of 3 Scopes:

- Scope 1 shows our direct emissions from sources owned or controlled by the Council. This includes heating fuel sources (excluding electricity) and refuse and Street Scene vehicle fuel usage.
- Scope 2 accounts for indirect emissions from the generation of purchased electricity.
- Scope 3 is all other indirect greenhouse gas emissions. These emissions are a consequence of the activities of the Council, but come from sources not owned or controlled by it. So, for example, a large part is business mileage, outsourced contractor activities, and tenanted buildings.

## 1. Approach

We have followed the Government's Guidance<sup>1</sup> on how to measure and report greenhouse gas emissions. Calculations were made using the DEFRA spreadsheet<sup>2</sup>, and the direct greenhouse gas emissions are reported in this document.

Our Baseline Year is 2007/08. Targets were set through the Local Area Agreement for Lincolnshire (2008/09 to 2010/11) and our Carbon Management Plan (2008/09 to 2012/13) for the NI 185 CO<sub>2</sub> emissions. As the Carbon Management Plan is still relevant, no targets relating to CO<sub>2</sub>e have been set at this time.

The most appropriate intensity measure for Local Authorities is 'Tonnes CO<sub>2</sub>e per full time equivalents'.

East Lindsey District Council has adopted the operational control approach as the most appropriate boundary for our organisation. This approach is used across the whole of the Local Authority operations.

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<sup>1</sup> 'Guidance on how to measure and report your greenhouse gas emissions', September 2009

<sup>2</sup> '2011 Guidelines to Defra / DECC's GHG Conversion Factors for Company Reporting'

## 2. Results

**Table 1: Greenhouse gas (GHG) emissions for 2007/08 – 2010/11**

<b>GHG Emissions data for</b>				
1 <sup>st</sup> April to 31 <sup>st</sup> March in Baseline and Last three years				
	<b>Kg of CO<sub>2</sub>e</b>			
	<b>2010/11</b>	<b>2009/10</b>	<b>2008/09</b>	<b>Baseline 2007/08</b>
Scope 1	3,480,174	2,837,136	3,132,715	3,017,648
Scope 2	2,478,108	2,438,132	2,481,628	2,650,723
Scope 3	879,392	819,992	962,930	1,873,777
<b>Total gross emissions</b>	<b>6,837,674 kg 6,838 t</b>	<b>6,095,260 kg 6,095 t</b>	<b>6,577,273 kg 6,577 t</b>	<b>7,542,148 kg 7,542 t</b>
Carbon offsets	-	-	-	-
Green tariff	-	-	-	-
<b>Total annual net emissions</b>	<b>6,837,674 kg 6,838 t</b>	<b>6,095,260 kg 6,095 t</b>	<b>6,577,273 kg 6,577 t</b>	<b>7,542,148 kg 7,542 t</b>
% change	+12.2% from 2009/10	- 7.3% from 2008/09	- 12.8% from Baseline	
Intensity measurement (tonnes CO <sub>2</sub> e / full time equivalents)	9.66	8.35	9.35	7.56
N <sup>o</sup> full time equivalents	708.02 <sup>3</sup>	730	703.75	998

## 3. Discussion

### a. Scope 1

**Table 2: Scope 1 GHG Emissions Data in Detail**

<b>Scope 1 GHG Emissions Data</b>				
	<b>Kg of CO<sub>2</sub>e</b>			
	<b>2010/11</b>	<b>2009/10</b>	<b>2008/09</b>	<b>Baseline 2007/08</b>
Natural Gas, LPG & Oil GHG Emissions	1,909,727	1,241,512	1,262,275	1,158,373
Fleet & Funk Bus GHG Emissions	1,570,447	1,595,624	1,884,727	1,859,275
<b>TOTAL SCOPE 1</b>	<b>3,480,174 kg 3,480.2 t</b>	<b>2,837,136 kg 2,837.1 t</b>	<b>3,147,002 kg 3,147.0 t</b>	<b>3,017,648 kg 3,017.7 t</b>
% Change	+22.7% from 2009/10	-9.9% from 2008/09	+4.3% from baseline	
Intensity measurement (tonnes CO <sub>2</sub> e / full time equivalents)	4.92	3.89	4.47	3.02
N <sup>o</sup> full time equivalents	708.02 <sup>4</sup>	730	703.75	998

<sup>3</sup> Calculated from the number of full time equivalents, plus casual staff, plus Councillors

<sup>4</sup> Calculated from the number of full time equivalents, plus casual staff, plus Councillors

- Emissions in this scope include varying percentages depending on the Council's occupancy of buildings. Emissions attributable to other tenants in Council-owned buildings are recorded under Scope 3 – Indirect Emissions.
- Emissions for Pattinson House and Tedder Hall are 100% for all years, even though these buildings became tenanted by Compass Point Business Services on 1<sup>st</sup> August 2010. CPBS is considered to be part of ELDC's operations.
- The large emissions increase in 2010/11 over 2009/10 appears to be attributable to cold weather in the winter of 2010/11, which meant more fuel was used to keep buildings warm.
- Fugitive emissions from air conditioning have not been included. This data has not been collected heretofore. Therefore, this report will be amended for this at a later date.
- The Council has no 'pool' vehicles – transport emissions in Scope 1 are attributable only to the Waste Lorries, other small fleet vehicles (dog wardens, Street Scene, courier van, etc) and the Funk Bus (which began operation in 2009/10).
- Round rationalisation and other measures in Street Scene have contributed to a decrease in Scope 1 emissions.

## b. Scope 2

**Table 3: Scope 2 GHG Emissions Data in Detail**

<b>Scope 2 GHG Emissions Data</b>				
	<b>Kg of CO<sub>2</sub>e</b>			
	<b>2010/11</b>	<b>2009/10</b>	<b>2008/09</b>	<b>Baseline 2007/08</b>
<b>TOTAL SCOPE 2</b>	<b>2,478,108 kg 2,478.1 t</b>	<b>2,438,132 kg 2,438.1 t</b>	<b>2,481,628 kg 2,481.6 t</b>	<b>2,650,723 kg 2,650.7 t</b>
% Change	+1.6% from 2009/10	-1.8% from 2008/09	-6.4% from baseline	
Intensity measurement (tonnes CO <sub>2</sub> e / full time equivalents)	3.50	3.34	3.53	2.66
N <sup>o</sup> full time equivalents	708.02 <sup>5</sup>	730	703.75	998

Many issues as noted in Scope 1 Emissions apply:

- Emissions in this scope include varying percentages depending on the Council's occupancy of buildings. Emissions attributable to other tenants in Council-owned buildings are recorded under Scope 3 – Indirect Emissions.
- Emissions for Pattinson House and Tedder Hall are 100% for all years, even though these buildings became tenanted by Compass Point Business Services on 1<sup>st</sup> August 2010. CPBS is considered to be part of ELDC's operations.
- The total also includes emissions from electricity use for Skegness and Mablethorpe Illuminations, water features and promenade lighting, as well as public conveniences, responsibility for many of which have now been devolved to Parish and Town Councils.

<sup>5</sup> Calculated from the number of full time equivalents, plus casual staff, plus Councillors

### c. Scope 3

**Table 4: Scope 3 GHG Emissions Data in Detail**

<b>Scope 3 GHG Emissions Data</b>				
	<b>Kg of CO<sub>2</sub>e</b>			
	<b>2010/11</b>	<b>2009/10</b>	<b>2008/09</b>	<b>Baseline 2007/08</b>
Natural Gas, LPG & Oil GHG Emissions	279,291 kg	253,945 kg	217,499 kg	201,007 kg
Electricity Emissions	256,913 kg	185,255 kg	183,298 kg	160,973 kg
<b>Sub-Total</b>	<b>536,204 kg 536.2 t</b>	<b>439,200 kg 439.2 t</b>	<b>400,797 kg 400.8 t</b>	<b>361,980 kg 362.0 t</b>
Business Mileage (Staff, Councillors and Training)	343,188 kg 343.2 t	380,792 kg 380.8 t	562,133 kg 562.1 t	332,902 kg 332.9 t
<b>TOTAL SCOPE 3</b>	<b>879,392 kg 879.3 t</b>	<b>819,992 kg 820.0 t</b>	<b>962,930 kg 962.9 t</b>	<b>694,882 kg 694.9 t</b>
% Change	+7.2% from 2009/10	-14.8% from 2008/09	+38.6% from baseline	
Intensity measurement (tonnes CO <sub>2</sub> e per full time equivalents)	1.24	1.12	1.37	0.696
N° full time equivalents	708.02 <sup>6</sup>	730	703.75	998

- Reporting for this scope is **NOT** mandatory.
- Emissions in this scope include varying percentages depending on non-Council occupation of buildings. The percentage of emissions attributable to ELDC are recorded under Scopes 1 and 2 – Direct Emissions.
- Totals also include emissions from tenants of Kiosk, Car Park, North Parade, Skegness and Sea View Car Park, Mablethorpe
- ELDC has no social housing of its own. Any social housing is the responsibility of New Linx Housing Trust and other housing associations.
- Emissions for 2010/11 include emissions from natural gas and electricity consumed in temporary housing accommodation. This accommodation is the property of New Linx Housing Association. There is no record of consumption in temporary accommodation in 2007/08, 2008/09 or 2009/10. When and if this information becomes available, the report will be amended.
- Commuter mileages were recorded in the baseline year, but in no other years, therefore, emissions from these have been left out. In general, since the baseline year, business mileages have not been broken down into engine size and fuel type. This information is critical to accurate information, since the conversion factors for different sized engines and fuel types vary. Data from 2007/08, 2008/09, and 2009/10 was re-visited and some refinement was made. More refinement was enabled to the 2010/11 data through canvassing of staff directly. This is an issue that will be looked at by Senior Management.
- Similarly, the Council does not have a system for recording business travel by public transport modes. This is unlikely to contribute much to our emissions, due to the poor public transport infrastructure in Lincolnshire. However, an attempt will be made to capture this for reporting next year.

<sup>6</sup> Calculated from the number of full time equivalents, plus casual staff, plus Councillors

- At this time, the Council does not capture data relating to waste from its own operations, i.e. confidential paper waste and general waste. This data will be collected in 2011/12 for reporting on emissions next year.
- Emissions data from the operations of contractors and outsourced services has not been collected previously. This information will be collected from this year for reporting in next year's submission.

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