

North West Leicestershire District Council

Report on Greenhouse Gas Emissions From Local Authority Own Estate and Operations

(The successor to National Indicator 185)

July 2011



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1. Organisation Information

North West Leicestershire District Council is a local authority situated within Leicestershire. Our registered address is Council Offices, Whitwick Road, Coalville, Leicestershire, LE67 3FJ.

2. Context

The Department of Energy and Climate Change (DECC) and the Department for the Environment, Food and Rural Affairs (Defra) have brought in a new national emissions reporting system as a successor to National Indicator 185, which was deleted earlier this year. The new DECC system requires reporting of Greenhouse Gas (GHG) emissions for 2009/10 and 2010/11.

3. Carbon Management Plan

We developed a Carbon Management Plan (CMP) in 2010 as part of the Green Footprints Challenge, which is one of the Council's four priority outcomes. The CMP outlines the Council's approach to reducing its emissions and set a target of reducing carbon dioxide (CO₂) emissions by 20% by 2013/14, relative to the baseline year 2008/09. These emissions were calculated using the Government's NI 185 spreadsheet and measure only CO₂ emissions.

The GHG emissions reported in *this* document include not only CO₂, but also methane (CH₄) and nitrous oxide (N₂O) equivalents, as set out by DECC/DEFRA guidelines. Units are represented as tonnes of CO₂ equivalents (CO₂e).

GHG emissions data for period 1 April 2010 to 31st March 2011

	Tonnes of CO ₂ e	
	2009/10	2010/11
Scope 1 *	2,355	2,070
Scope 2 *	1,894	1,658
Scope 3 *	15	14
Total Gross Emissions	4,264	3,743
Carbon offsets	-	-
Green Tariff	-	-
Total annual net emissions	4,264	3,743
Intensity measurement		
'Tonnes of CO₂e per number of employees (full-time equivalents)'	8.33	7.54

* See Page 3 for break-down of Scopes 1, 2 and 3

4. Reporting period

1 April 2010 – 31 March 2011

Also included is the data from 1 April 2009 – 31 March 2010

5. Change in Emissions

Our reported greenhouse gas emissions have fallen this year by 12% because we have:

- reduced electricity use through the installation of gas combined heat and power (CHP) units at both leisure centres
- reduced electricity use through staff behaviour campaigns such as the Big Switch Off
- improved electricity and gas monitoring by installing automatic meter reading equipment
- improved how our council fleet operates, resulting in fewer trips and less fuel consumed
- run green-driver training sessions for our Housing staff
- reduced staff business mileage by installing teleconferencing equipment at our main offices

We achieved a reduction in all areas of reporting with the exception of natural gas, which increased slightly due to higher consumption of gas by our new CHP units and the particularly cold winter months.

Note: The spreadsheet used for calculating the greenhouse gas emissions in this report did not weather-correct the gas consumption data. However, using previous spreadsheets supplied for NI185 data collection, we found that, taking into account the weather experienced during 2010/11 (ie. weather-correcting the data), we actually reduced CO₂ emissions from natural gas in 2010/11 compared to 2009/10.

6. Our approach

We have followed the Government's Guidance on how to measure and report greenhouse gas emissions.

Calculating emissions: '2011 Guidelines to Defra/DECC's GHG Conversion Factors for Company Reporting' to calculate emissions

Reporting emissions: Defra/DECC's 'Guidance on how to measure and report your greenhouse gas emissions'

7. Data Collection

As per the previous NI 185 data collection, we collected data for electricity, gas, council-run fleet, staff mileage and councillor mileage. See Appendix 2.

8. Operational scopes

We have measured the following scope 1, 2 and significant scope 3 emissions.

	Tonnes of CO ₂ e		States specific exclusions
	2009/10	2010/11	
Scope 1 Direct			
Gas consumption	1,010	1,185	
Owned and controlled Transport	1,345	885	
Fugitive Emissions			Emissions from air conditioning and refrigeration units in office buildings excluded as data not collected in 2009/10
Total Scope 1	2,355	2,070	

Scope 2 Indirect			
Purchased Electricity	1,894	1,658	
Total Scope 2	1,894	1,658	

Scope 3 Indirect			
Staff business travel	15	14	
Rail/bus/air travel			Emissions from rail/bus/air travel excluded as data not collected in 2009/10
Suppliers/contractors travel			Emissions from suppliers/contractors' travel excluded as data not collected in 2009/10
Employee commuting			Emissions from employee commuting excluded as data not collected in 2009/10
Waste Disposal			Emissions from waste disposal/recycling excluded as full data sets unavailable in 2009/10
Total Scope 3	15	14	

Total Gross Emissions Tonnes CO₂e	4,264	3,743	
% reduction		12%	

9. Base Year

Our base year is 2008/09, in line with the previous NI 185 data collection.

10. Targets

We have already set our CMP target to reduce our CO₂ emissions by 20% from 2009 to 2014. Although this new national reporting system requires us to report on GHG emissions (ie. NH₄ & N₂O equivalents in addition to CO₂), we intend to continue with this target of 20% by 2014. Our progress towards reaching this target is good and we expect to meet this target in 2014.

11. Intensity measurement

We have chosen 'Tonnes of CO₂e per number of full-time equivalent employees. Our intensity measurement has fallen this year as we have invested in more energy efficient heating and have amended how we operate our housing and commercial fleet.

12. External Assurance Statement

We have not sought an independent external assurance statement as our organisation's greenhouse gas emissions are relatively low.

13. Carbon offsets

Our energy consumption falls well below the threshold required for participation in the Carbon Reduction Commitment scheme and we have therefore not purchased any carbon credits to offset our emissions.

14. Green tariffs

We do not currently purchase green tariff electricity but will review this decision on an annual basis.

15. Further Information

For further information on our district-wide Green Footprints Challenge, please visit our website at: <http://footprints.nwleics.gov.uk/>

Appendix 1 – Glossary

CHP	Combined Heat and Power
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalents
Defra	Department for Environment, Food and Rural Affairs
DECC	Department of Energy and Climate Change
GHG	Greenhouse Gas
NH ₄	Methane
N ₂ O	Nitrous Oxide

Appendix 2 - Data Collected for DECC Reporting

<p>Electricity & Gas consumption</p>	<p>Council Offices Other outlying offices Fleet depots Leisure centres Community centres Market Hall Sports grounds across the district Pavilions across the district Recreation gardens Cemeteries Greenhouses CCTV control room Waste transfer stations Public conveniences Caravan Parks Clock Tower Business Centres Older persons' accommodation throughout the district Car park lighting and ticket machines Street and footpath lighting provided by the Council Communal areas of flats Moira Furnace</p>
<p>Council fleet</p>	<p>Commercial vehicles – refuse & recycling lorries, etc Housing vehicles – vans, tractors, pick ups, sweepers, etc</p>
<p>Business Mileage (excludes public transport and commuting)</p>	<p>Staff Essential users Staff Casual users Staff Lease cars Staff Training Councillors</p>