



Havering

LONDON BOROUGH

Greenhouse Gas Report 2013-14



Electricity Smart Meter, Elm Park Library

Directors' Report

This report provides a summary of the London Borough of Havering's CO₂e emissions for 2013/14, based on the guidance from the Department of Environment Food & Rural Affairs on reporting on greenhouse gas emissions.

Havering Council has been successfully reducing its carbon emissions and energy consumption over the past five years. We have invested in energy efficiency measures which generate measurable reductions in our energy use, thus providing long-term and sustainable savings. Projects have included office LED lighting schemes, heating and temperature control upgrades, LED streetlighting replacements, renewable energy installations and the roll-out of automatic meter reading systems and smart meters. We incorporate sustainable design into our buildings and refurbishments in order to reduce our future energy use. We consider fuel consumption and whole-life costing in our vehicle purchasing to ensure we have a fuel efficient and less polluting fleet.

The Council will continue to identify and implement projects which reduce our energy consumption, using our Salix recycled fund and our own invest-to-save capital funding. Our revised Climate Change Action Plan for 2014—2017 guides our efforts in becoming more efficient with our energy use, and further reducing our carbon emissions and our contribution to climate change.

Cynthia Griffin
Group Director – Culture, Community
& Economic Regeneration
London Borough of Havering

Andrew Blake-Herbert
Group Director -- Finance & Commerce
London Borough of Havering

Summary Table

GHG Emissions data for period 1 st April 2013 to 31 st March 2014 Global tonnes of CO ₂ e			
	2013/14	2012/13	Base Year 2010/11
Scope 1	8,373	13,322	13,266
Scope 2	12,870	15,641	17,524
Scope 3	n/a	n/a	n/a
Total gross emissions		28,963	30,790
Total comparable emissions (excl Scope 3)		28,963	30,790
Carbon offsets		0	0
Green tariff		0	0
Total annual net emissions	21,243	28,963	30,790
Intensity measurement (tonnes of CO ₂ e per million £ net expenditure)		37	66

1. Council Information

The London Borough of Havering is a local government authority within Greater London. Its registered address is:

Romford Town Hall
Main Road
Romford, Essex
RM1 3BD

2. Reporting Period

1st April 2012/13 to 31st March 2014

3. Change in emissions

The Council's emissions have decreased by over 26% from 2012/13. This large reduction is mainly due to the change in the methodology used by the UK government to set emissions factors for calculating greenhouse gases from energy consumption.

However, efforts undertaken by the Council have still had an impact in reducing the greenhouse gas emissions of the Council. There has been a significant decline in the amount of electricity used in the Council estate as a result of the Council's energy invest-to-save projects on LED lighting, roll-out of smart meters in Council buildings and renewable energy systems. The Council has also rolled out a major streetlighting programme to replace all residential streetlights to LED lights, which reduces the energy use by 60%.

Gas use also declined, due to an atypically mild winter in 2013/14. Only one corporate site still uses oil-fired boilers from four sites in the previous year, leading to the reduction in oil consumption.

4. Approach

The Council has followed the Government's guidance on how to report and measure greenhouse gas emissions. Since the reporting year 2010/11 data has been drawn from the Council's Carbon Reduction Commitment Energy Efficiency Scheme (CRC-EES) submission, with additional fleet and plant fuel data and oil consumption for Scope 1 and streetlighting electricity for Scope 2.

5. Organisational boundary

The Council has used the financial control approach as recommended in the Government's guidance, in which we have included all assets that we have financial control over. We have not included housing assets, as these are not included in the CRC-EES.

6. Operational scopes

The Council has measured emissions for Scopes 1 and 2 as per the Government's guidance. Scope 1 includes the Council's owned and operationally controlled buildings and transport, including schools. Scope 2 is the Council's purchased electricity. We have not included any Scope 3 emissions for this report. Emissions from significant outsourced services and staff business travel were measured in 2008/09 for National Indicator 185. However, they have been excluded from subsequent reports due to the extensive effort required to measure these sources compared to the percentage of the Council's total emissions, and the lower impact if the Council undertakes efforts on reducing emissions in these areas.

Detailed Table of Greenhouse Gas Emissions

	GHG emissions 2013/14 in tonnes of CO₂e	Exclusions and % of this scope
Scope 1 (Direct Emissions)		
Gas consumption	6,952	83% of Scope 1 emissions.
Oil consumption	1	0.01% of Scope 1 emissions. Only one site using burning oil.
Owned transport & plant machinery	1,420	17% of Scope 1 emissions.
Fugitive emissions	n/a	Emissions from air conditioning and refrigeration units in office buildings excluded due to cost of data collection. These account for less than 0.5% of total Scope 1 emissions.
Total scope 1	8,373	
Scope 2 (Indirect Emissions)		
Purchased electricity	12,870	This data is derived from the Council's CRC-EES submission for 2013/14 plus additional streetlighting which is not reported for CRC-EES.
Total scope 2	12,870	
Scope 3 (Other Indirect Emissions)		
Business travel	n/a	Not measured due to effort involved and level of effort required to reduce emissions in this area. In 2008/09 ¹ , business travel comprised 1.5% of total CO ₂ emissions.
Significant outsourced services	n/a	Not measured due to effort involved and level of effort required to reduce emissions in this area. In 2008/09 ² , significant outsourced services comprised 3% of total CO ₂ emissions.
Total significant scope 3	n/a	

¹ Business travel was last measured in 2008/09 for the National Indicator 185 requirements.

² Outsourced services were last measured in 2008/09 for the National Indicator 185 requirements.

7. Operational breakdown

The Council does not have any emissions outside the United Kingdom.

8. Base year

The Council has set the base year as 2010/11, as measuring National Indicator 185 in previous years has used different methodology. The methodology for GHG reporting since 2010/11 has stayed the same, thus providing a more accurate comparison. We use a 'fixed base year' approach where we compare our current emissions with a fixed point in the past.

9. Targets

The Council's emissions reduction target is 1% per year for each year from 2010/11 to 2012/13. The Council's actions to achieve greenhouse gas reductions are outlined in our subsequent Climate Change Action Plans (2009-2012 and 2014-2017).

10. Intensity measurement

The Council has chosen to measure its intensity based on tonnes of CO₂e per million £ net revenue expenditure (output).

For 2013/14:

- 21,243 tonnes CO₂e
- £610,000,000 revenue expenditure (gross)

In 2013/14, for every million pounds revenue expenditure the Council generated 35 tonnes of CO₂e.

11. External Assurance Statement

We currently have no external assurance statement for the whole of the Council's CO₂e footprint. However, the majority of the data for 2013/14 is derived from the Carbon Reduction Commitment Energy Efficiency Scheme, which is externally verified and audited by the Green Energy Partners and internally audited by the Council's Audit team.

12. Carbon offsets

The Council does not currently purchase any carbon offsets.

13. Green tariffs

The Council does not currently purchase any green tariffs. From 2006-2009 the Council purchased green energy for 100% of our streetlighting electricity requirements from E.ON, but no longer does this.

For more information please contact the Energy Strategy Team on 01708 432590 or EnergyStrategy@havering.gov.uk.