

SUSTAINABLE GROWTH AND ENVIRONMENT CAPITAL SCRUTINY COMMITTEE	Agenda Item No. 6
7 NOVEMBER 2013	Public Report

Report of the Executive Director of Operations

Contact Officer(s) – Charlotte Palmer, Climate Change Team Manager

Contact Details – 01733 453538, charlotte.palmer@peterborough.gov.uk

UPDATE ON PETERBOROUGH CITY COUNCIL'S 2012/13 CARBON EMISSION SUBMITTED UNDER DIFFERENT REPORTING REQUIREMENTS.

1. PURPOSE

- 1.1 This report provides an update on Peterborough City Council's 2012/13 carbon dioxide emissions. These emissions are reported as part of its mandatory participation in the Carbon Reduction Commitment Energy Efficiency Scheme and to assess progress under its Carbon Management Action Plan.

2. RECOMMENDATIONS

- 2.1 The contents of this report are noted and comments invited accordingly.
- 2.2 That future updates remain an annual scrutiny item in November, following the annual reporting deadlines at the end of July.

3. LINKS TO THE SUSTAINABLE COMMUNITY STRATEGY

- 3.1 The council's carbon emissions directly relate to two priorities of the Sustainable Community Strategy: creating the UK's Environment Capital and delivering substantial and truly sustainable growth. As a key partner in the Environment Capital the council is in a position to lead by example on reducing its climate change impact and ensuring that growth in the city is environmentally sustainable.

4. BACKGROUND

- 4.1 The three similar but slightly different carbon emission reports are described in detail below. The table in section 4.5 below summarises the differences in scope, conversion factors and method.
- 4.2 **Carbon Reduction Commitment Energy Efficiency Scheme (CRC):** The participants in this mandatory scheme (including 197 other Local Authorities) are required to report annual carbon emissions and purchase allowances at £12 per tonne of CO₂ emitted. Reporting started in 2010/11 and the first allowances were required for 2011/12 emissions. A performance league table is published in November showing the ranking of participants based on 3 metrics – absolute emissions, emissions relative to revenue or turnover, and a metric rewarding early uptake of Automatic Meter Readers and accredited carbon reductions. The report brought to Environment Capital Scrutiny in March 2011 estimated that the council's costs under the scheme would be approximately £309k annually based on 2008/9 emissions.
- 4.3 **Carbon Management Action Plan (CMAP):** The CMAP is the result of a programme of work that the council undertook with the Carbon Trust in 2009 to ensure the organisation was well placed to make progress towards reducing its environmental impact. The plan commits the council to achieving a 35% reduction in carbon dioxide emissions from its own buildings and operations by 2013/14 relative to 2008/9 baseline. It was presented to Environment Capital Scrutiny in February 2010 and adopted by Full Council in April 2010.
- 4.4 **Greenhouse Gas Report (GHG):** Local Authorities are asked to resume reporting of their

emissions formerly know as NI 185 for the Department of Communities and Local Government's Single Data List. There are no financial implications or targets associated with this report.

4.5 Table 1:

Report	Scope	Conversion factors	Method notes
CRC	Buildings where PCC pays the energy bills (including Vivacity and rental units). Also includes schools and Academies. Excludes emission from un metered street lighting, transport and where energy is part of the rent e.g. Stuart House.	Factors specific to the scheme published by DECC.	CO ₂ emissions only. Excludes non-core supplies such as oil and LPG Estimated emissions subject to 10% uplift. Reports renewable electricity using same conversion factor as electricity imported from the grid.
CMAP	Includes building, street lighting, fleet transport and business transport emissions. Also includes significant outsourced services which were originally part of the city council – i.e. Enterprise Peterborough.	Original factors provided by the Carbon Trust. Going forward GHG Report scope 1 and 2 factors used.	CO ₂ emissions only. Reports renewable electricity as zero emissions. Scope will increase in 2013/14 to include emissions arising from water (please note this has been delayed by 12 months)
GHG	Essentially same as CMAP but the sources are treated differently. Reporting outsourced services and business travel is discretionary, and they are reported as scope 3.	Factors revised and published by Defra annually. Use both scope 1, 2 and 3 factors.	Requires report to include all main greenhouse gases converted into CO ₂ equivalent. Scope 3 emissions are reported using scope 3 conversion factors.

5. KEY ISSUES

- 5.1 As demonstrated below, whilst the council's carbon emissions reduced in 2010/11 and 2011/12 compared to 2008/09, emissions increased in 2012/13. This is due to a combination of milder winters during 2010/11 and 2011/12 in comparison to a much harsher winter during 2012/13.

In addition, whilst all reports show an overall decrease in emissions from the baseline year (2008/09) it should be noted that the figures are positively and negatively affected by a range of factors including outsourcing of services, increase in the number of children in the city schools, changeable weather and energy efficiency improvement works.

Please note, the figures are different for each report due to their different scopes as shown in Table 1.

- 5.2 **CRC:** The council successfully prepared and submitted the third annual CRC report in July 2013. Internal Audit has approved the process used. The key points for this year are:

Annual report emissions = 24,036 tonnes of CO₂

Annual cost of allowances = £288,437

Schools proportion = 64% of emissions equating to approximately £180k

- 5.3 **CMAP:** 2012/13 is the fourth year (of five) where progress against the 35% reduction target has

been monitored. The data shows a provisional reduction of 15% since the baseline year (2008/09). At this stage the reduction is a provisional figure because outsourced services were unable to obtain the necessary data in time for us to complete the annual reporting for 2012/13. This data has now been received and will be added shortly. Therefore to calculate the provisional figure the data for outsourced services for 2011/12 has been used and therefore the overall reduction figure may change marginally.

Table 2:

Emission source	Carbon Dioxide Emissions (tonnes)				
	2008/9	2009/10	2010/11	2011/12	2012/13
Council buildings	8,046	9,976	8,766	7,241	8,315
Schools	21,850	14,215	14,392	12,919	14,436
Street lighting	4,391	4,517	4,497	4,233	5,823
Fleet vehicles	2,375	2,478	2,117	-	-
Business transport	618	507	477	365	425
Outsourced services	-	-	-	2,593	TBC-assume 2,593
Total emissions	37,280	31,694	30,250	27,351	31,593

- 5.4 **GHG report:** The council has published the reports for 2009/10, 2010/11, 2011/12 and 2012/13 emissions on its website. The figures are in line with the other reports and show an increase in 2012/13 but an overall reduction of 21%.

Table 4:

GHG emissions data for period 1 April 2008 to 31 March 2013					
	Tonnes of CO ₂				
	2008/09	2009/10	2010/11	2011/12	2012/13
Scope one	16402.15	12076.45	11470.34	7931.34	9858.05
Scope two	18798.23	17708.39	16938.28	15166.09	17345.92
Scope three	2079.63	1908.76	1840.90	2168.29	1799.96 (+507.18 TBC)
Total gross emissions	37280.01	31693.60	30249.51	25265.73	29511.12
Carbon offsets	0	0	0	0	0
Green tariff	0	0	0	0	0
Total net emissions	37280.01	31693.60	30249.51	25265.73	29511.12
Intensity measurement (kg CO _{2e} per gross revenue expenditure)	£0.08	£0.07	£0.06	£0.05	£0.05

6. IMPLICATIONS

- 6.1 As stated in paragraph 5.1 all data for 2012/13 has been affected by a comparatively harsh winter.

6.2

CRC: The increase in emissions from 2011/12 to 2012/13 has increased the overall costs of allowances significantly.

6.3

CMAF: Whilst the harsh winter has resulted in an increase in carbon emissions in 12/13, we are confident that over the 4 years since the baseline year, the trend is of a reduction in emissions year-on-year. However further progress is needed if the City Council is to achieve the ambitious 35% reduction target, and it is looking extremely unlikely that we will do so during 2013/14. It is worth noting that the impacts of the upcoming energy efficiency work as part of the Energy

Performance Contract are not fully scoped, plus there will be other wider action arising from the forthcoming Environment Capital Action Plan, and collectively these will help the council continue to reduce emissions towards the 35% target, though it may take a year or two longer than originally aimed for.

GHG: none

7. CONSULTATION

- 7.1 No further consultation on the CMAP has taken place since it was approved at Full Council in April 2010. No consultation is needed on the CRC or GHG report.

8. NEXT STEPS

- 8.1 Officers will continue to monitor carbon emissions annually for the delivery of upcoming energy efficiency and renewable energy projects.
- 8.2 Annual reports on 2013/14 emissions will be compiled for each reporting requirement in summer 2014.
- 8.3 It is recommended that this remains a regular item for this scrutiny board to ensure continued progress.

9. BACKGROUND DOCUMENTS

- 9.1 Information about the CRC scheme can be obtained from the Environment Agency's website: <http://www.environment-agency.gov.uk/business/topics/pollution/126698.aspx>
- 9.2 The council's Carbon Management Action Plan is available from: <http://www.peterborough.gov.uk/pdf/env-cc-ct-cmap.pdf>
- 9.3 The council's Greenhouse Gas Emissions Report is available at: http://www.peterborough.gov.uk/environment/climate_change/what_is_the_council_doing/carbon_reporting.aspx

10. APPENDICIES

- 10.1 None