



Greenhouse Gas Report 2011



Dover District Council's Greenhouse Gas Report

GHG EMISSIONS DATA FOR PERIOD 1ST APRIL 2010 TO 31ST MARCH 2011

	Global Tonnes of Co2e		
	2010/11	2009/10	Base Year 2008/09
Scope 1	1,212.43	1,169.3	1,130.4
Scope 2	2,130.2	2,163.6	2,199.4
Scope 3	680.75	702.3	552.04
Total Gross Emissions	4,023.38	4,035.2	3,881.84
Carbon Offsets	2.8	2.0	2.82
Total annual net emissions	4,020.58	4,033.2	3,879.02

COMPANY INFORMATION

Dover District Council is a local authority constituted under the local government act, 1972. The principal office is located at the White Cliffs Business Park, Dover, Kent. CT16 3PJ.

REPORTING PERIOD

1st April 2010 to 31st March 2011.

CHANGE IN EMISSIONS

Using Degree Day analysis for establishing weather corrected data for the South East Region – there has been a 7.2% increase in HDD (Heating Degree Days) from the years 2009/10 to 2010/11. This would normally account for a corresponding increase in heating fuel usage under Scope 1. Our reported Scope 1 emissions have increased by ≈ 10.7% over the base year (neglecting weather compensation). The main increase in carbon emissions is due to a significant increase in gas (> 40%) used at the Tides Leisure Centre in Deal, Kent. The Tides Leisure Centre is our highest consumer of gas and any significant increases in their gas usage can skew what would otherwise be encouraging reductions in emissions. The bar chart

on page 2 highlights the effect that Tides Leisure Centre has on the Districts overall performance. The Dover Museum has been re-boilered this year with high efficiency boilers, and this exercise has revealed that the gas meter reading errors at Dover Museum have accounted for a degree of excess charges. These have been corrected; however the need for regular monthly meter readings has been raised. The Council Offices and Dover Leisure Centre have continued to make worthwhile savings as a result of improved housekeeping measures.

The Scope 2 emissions (electricity used) has shown mixed results with the overall consumption reducing by 6% from the base year. The Council Offices have benefited from a combination of good housekeeping measures, the installation of voltage optimisation and the grid connected 20kW wind turbine that was installed in 2007.

Our Scope 3 emissions have increased by approximately 18% since the base year. This is due, mainly to the introduction of a waste re-cycling service. The waste contract has recently been re-let on environmental criteria.

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THE BAR CHART FIG 1 ILLUSTRATES THE SCOPE 1 TRENDS (WITH OR WITHOUT TIDES)



APPROACH

We have used 2008/9 as our base year because we do not have accurate data prior to this date. Our base line data has been recorded on the Governments NI 185 spreadsheet and includes scope 3 discretionary elements relating to business mileage. The collected data has been converted to carbon by using DECC's GHG conversion figures which are published on the DECC website in July each year.

We have totalled our energy usage under each scope, using the appropriate conversion factors we have converted our energy usage to tonnes of CO₂e, these figures have been carried forward to the table of GHG emissions shown on the previous page.

ORGANISATIONAL BOUNDARIES

We have used the financial control approach. It should be noted that Dover District Council has leased the management of its Town Hall and Leisure Centres to a private management organisation.

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OPTIONAL SCOPE

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

	GHG emissions 2010 in tonnes of CO ₂ e	Specific exclusions and where known the % this represents
Scope 1		
Gas Consumption	1,193.12	
Owned Transport	19.3	
Fugitive Emissions	-----	Emissions from AHU's in office buildings are excluded due to the cost of data collection. Losses are estimated to be < 1% of scope 1
Total scope 1	1,212.43	
Scope 2		
Purchased electricity	2,130.2	
Wind Turbine	-2.8	
Total scope 2	2,127.4	
Scope 3		
Business travel	121.30	Excludes employee commuting
Freight	559.45	Includes Waste Disposal
Total Significant scope 3	680.75	

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BASEYEAR

Our base year is 2008. We calculated our energy usage using the NI 185 National Performance Indicator data set. CO₂e data has been recalculated using the GHG emissions factors published on the DECC website.

TARGETS

Our emissions reduction target is to reduce our global CO₂e by 15% from 2008 to 2015 for scopes 1, 2 & 3. (Scope 3 reductions are for business miles only)

INTENSITY MEASUREMENT

We have chosen Tonnes of CO₂e per square metre of corporate building space as this metric will be a valuable comparator. This is our first year for establishing this data; therefore a direct comparison is not currently available.

Our Intensity measurement is therefore 4,020.58/22,488 which gives a measurement of 0.178 Tonnes CO₂e per m² or approximately 178Kg CO₂e per m².

ASSURANCE STATEMENT

All data used to calculate our GHG report has been carefully filed and stored in NI 185 format, and may be audited if necessary.

CARBON OFFSET

The Council has installed a 20kW wind turbine at the Whitfield Office site. This was installed in November 2007 and has offset our carbon use by approximately 2.82 tonnes during the year. The turbine is grid connected and has provided valuable ROC's and more recently feed-in tariff payments under the Governments renewable energy programme.

Shaun P Cline
Climate Change Officer. Dover & Shepway District
Councils
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