

# Dover District Council's Greenhouse Gas Emissions Report

| GHG EMISSIONS DATA FOR PERIOD 1 <sup>ST</sup> APRIL 2015 TO 31 <sup>ST</sup> MARCH 2016 |                |                |                |                                    |                |                |                |                |
|---|----------------|----------------|----------------|------------------------------------|----------------|----------------|----------------|----------------|
|   |                |                |                | Global Tonnes of CO <sub>2</sub> e |                |                |                |                |
|   | 2015/16        | 2014/15        | 2013/14        | 2012/13                            | 2011/12        | 2010/11        | 2009/10        | 2008/09        |
| Scope 1   | 1200.50        | 1177.00        | 1206.30        | 1206.81                            | 1221.01        | 1212.43        | 1169.31        | 1130.47        |
| Scope 2   | 872.84         | 976.00         | 944.67         | 1630.04                            | 1796.70        | 1970.60        | 2036.55        | 2039.06        |
| Scope 3   | 1504.33        | 1603.00        | 1655.14        | 1087.62                            | 986.18         | 839.44         | 863.60         | 710.94         |
| Total Gross Emissions   | 3577.67        | 3756.00        | 3806.11        | 3924.47                            | 4003.89        | 4022.47        | 4069.41        | 3880.47        |
| Carbon Offsets  | -              | -              | -              | -                                  | 2.23           | 2.80           | 2.00           | 2.82           |
| <b>Total annual net emissions</b>   | <b>3577.67</b> | <b>3756.00</b> | <b>3806.11</b> | <b>3924.47</b>                     | <b>4001.66</b> | <b>4019.67</b> | <b>4067.41</b> | <b>3877.65</b> |

## 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

1 April 2015 to 31 March 2016

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## CHANGE IN EMISSIONS

Using Degree Day analysis for establishing weather corrected data for the South East region (heating base temperature 15.5°C) there has been a 23% decrease in Heating Degree Days compared to the baseline year (2008/09) and a 3% decrease compared to 2014/15. Gas consumption kWhs (Scope 1) was 3% higher in 2015/2016 compared to 2008/09 and 0.5% lower in 2015/16 compared to 2014/15 (due in the main to reduced consumption at Tides Leisure Centre, Dover Leisure Centre and Marke Wood).

There has been a 19% reduction in electricity consumption as compared to the baseline year and is 4.5% lower than 2014/2015. There has been a continued decrease in electricity consumption in the Council Offices Whitfield which has LED lighting installed over the past 2 years.

Purchased electricity (Scope 2), and Electricity Transmission & Distribution, Freight, and Managed Assets in Scope 3 were lower than the 2014/2015 consumption in tonnes of CO<sub>2</sub>e.

There was an increase in mileage across all of Scope 3 Business compared to 2014/15 (30%). Scope 1 owned transport was higher due to the acquisition of a van in the latter part of 2014/2015 for the Asset Management team formed (November 2014) and increased usage of the Environmental Enforcement team's vehicles.

This year has seen a reduction in carbon emissions against all previous years, with a 8% decrease compared to the baseline year. However, the intensity measurement (Page 4) shows a 17.71% reduction in emissions compared to the baseline year (2008/09).

## APPROACH

We have used 2008/09 as our base year because we do not have accurate data prior to this date. Our baseline data has been recorded in accordance with the Government's NI185 spreadsheet and includes Scope 3 discretionary elements relating to business mileage, transmission and distribution of electricity and electricity consumption of managed assets.

We have totalled our energy usage/ distance travelled under each scope, using the appropriate 2015 conversion factors we have converted our energy usage to tonnes of CO<sub>2</sub>e, these figures have been carried forward to the table of GHG emissions shown on the previous page.

# Dover District Council's Greenhouse Gas Emissions Report

## 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, and the waste/ recycling collection and grounds maintenance is contracted out.

| <b>OPTIONAL SCOPE</b>  |  |   |
|--|--|---|
| <b>We have measured our scope 1, 2 and the significant scope 3 emissions</b> |  |   |
|  | GHG emissions 2015/16 in tonnes of CO <sub>2</sub> e | Specific exclusions and where known the % this represents   |
| <b>Scope 1</b>   |  |   |
| Gas Consumption  | 1145.00  |   |
| Owned Transport  | 55.50  |   |
| 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 |
| <b>Total Scope 1</b>   | <b>1200.50</b>                                       |   |
| <b>Scope 2</b>   |  |   |
| Purchased electricity  | 872.84   |   |
| Wind Turbine   | -  |   |
| <b>Total Scope 2</b>   | <b>872.84</b>  |   |
| <b>Scope 3</b>   |  |   |
| Business travel  | 75.99  |   |
| Freight  | 701.30   |   |
| Electricity Transmission & Distribution                                      | 75.36  |   |
| Managed Assets Electricity   | 651.68   |   |
| <b>Total Significant Scope 3</b>   | <b>1504.33</b>                                       |   |

## BASE YEAR

Our base year is 2008/09. We calculated our energy usage using the NI185 National Performance Indicator data set. CO<sub>2</sub>e data has been recalculated using the GHG emissions factors published on the DECC website

## TARGETS

Our emission reduction target is to reduce our global CO<sub>2</sub>e by 15% from 2008 to 2015 for scopes 1, 2 & 3

# Dover District Council's Greenhouse Gas Emissions Report

## **INTENSITY MEASUREMENT**

We have chosen Tonnes of CO<sub>2</sub>e per square metre of corporate building space as this metric will be a valuable comparator.

Our intensity measurement is 3577.67/24843 – giving a measurement of 0.140 tonnes CO<sub>2</sub>e per m<sup>2</sup> or approximately 144.00 Kg CO<sub>2</sub>e per m<sup>2</sup>. The 2008/09 intensity measurement is 3877.65/22163 – giving a measurement of 0.175 tonnes CO<sub>2</sub>e per m<sup>2</sup> or approximately 175.0 Kg CO<sub>2</sub>e per m<sup>2</sup>. This equates to a decrease of 17.71% in 2015/16 compared to the baseline year.

## **ASSURANCE STATEMENT**

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

**Amanda Martin**  
Climate Change and Energy Conservation Officer  
Dover District Council  
September 2016