

WIRRAL COUNCIL

GREENHOUSE GAS EMISSIONS REPORT 2016/17 July 2017

Background

The purpose of this report is to allow information on Wirral Council's Green House Gas (GHG) Emissions to be published in the format requested by the Department of Energy and Climate Change (DECC) as part of the single list of Central Government requirements from Local Government (2011/12), for data reference 067-00 "Emissions from Local Authority own estate and operations".

The reporting of GHG emissions is part of the Council's coordinated actions on climate change and energy management. Wirral Council has a long held commitment to action on climate change both cutting emissions and adapting to unavoidable changes in the climate.

The Council was an early signatory to the Nottingham Declaration on Climate Change and adopted its first strategy on climate change in 2007. In 2013, the Council reaffirmed its commitment to action by signing up to Local Government Association's Climate Local initiative – the successor initiative to Nottingham Declaration programme. In 2014 the Council endorsed a new climate change strategy for Wirral. The Council maintains an ongoing commitment to energy management to help manage costs and ensure services are delivered in an efficient cost effective manner. Wirral Council is a full participant in the Government's Carbon Reduction Commitment Energy Efficiency Scheme (CRCEES).

The Council's initial target to reduce its carbon emissions by 20% by 2010 was achieved early. Subsequently the Council adopted the 'CRed' target of a 60% reduction by 2025. To help meet its emission reduction ambitions Wirral Council introduced a carbon budget from April 2011. This budget enables service managers to plan for CO2 reductions at a departmental and operational level. It helps ensure that carbon management is integrated into mainstream financial planning and business planning activities across the organisation. The Carbon Budget is currently under review to align more closely to Wirral's 2020 Pledges.

Beyond managing its own carbon emissions the Council works to influence residents, communities and both the public and private sectors to encourage them to achieve their own reductions. The Council supports the Wirral Climate Change Group as a forum for co-ordinating action on climate change across Wirral. This group developed the current climate change strategy for Wirral and maintains a rolling action plan in support of its implementation.

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Scope of Report & Specific Exclusions

This report is based on the scope for reporting stationary and transport figures specified for the National Indicator (NI) 185 2008/09 Baseline year. Elements excluded in 2008/09 are similarly excluded from subsequent years, as per the NI Guidance. The reasons for exclusion generally include instances in which data were either unreliable or not available for the NI baseline year. This approach ensures that the reported years are consistent in scope.

The report covers all Wirral Council owned and operated buildings over which it exercises direct control, including Schools and street lighting. Social housing is excluded.

Fleet Transport is included, as is business travel based on private vehicle mileage. Business travel by other means (Bus, train, aircraft etc.) is excluded as the information was not available in a consistent form. Commuting and Contractor mileage is also excluded for this reason.

| GHG emissions data for period 1 April 2016 to 31 March 2017 | | | |
|--|------------------------------------|-----------------------|----------------------|
| | Global tonnes of CO ₂ e | | |
| | Current Year 2016/17 | Prior Year 2015/16 | Base Year 2008/09 |
| Scope 1 | 10,480 | 11,128 | 20,606 |
| Scope 2 | 13,930 | 17,365 | 27,598 |
| Scope 3 | 5,957 | 6,692 | 7,514 |
| Total gross emissions | 30,367 | 35,185 | 55,718 |
| Carbon Offsets | 0 | 0 | 0 |
| Green tariffs | (4,217) | (10,439) | (28,902) |
| Total annual net emissions | 26,150 | 24,746 | 26,816 |
| Intensity measurement 'Tonnes of CO₂e per £m Total Income' | 91.7 | 106.0 | 157.30 |

1. Company Information

- 1.1. Wirral Council is the ninth largest Metropolitan district in the country, and the third largest in the north west of England.
- 1.2. Wirral Council is based at: Wallasey Town Hall, Brighton Street, Wallasey, Wirral, CH44 8ED

2. Reporting Period

- 2.1. The reporting period is the financial year from 1 April 2016 to 31 March 2017.
- 2.2. This report includes information derived from consumption data prepared for National Indicators 185 & 194 for the 2008/09 financial years. Information for subsequent years was derived in an identical manner to ensure consistency.

3. Change in Emissions

- 3.1. Gross emissions have reduced by 4,818 tonnes (13.7%) from 2015/16. Contributory factors are: a reduction in staff numbers; energy efficiency initiatives; continued rationalisation of the Council's estate; Academy conversions; milder weather, changes to conversion factors and the disposal of redundant properties.

4. Approach

- 4.1. The Government publication "Environmental reporting Guidelines: Including mandatory greenhouse gas emissions reporting guidance" (DEFRA 12 June 2013) has been used as the basis to prepare this report.
- 4.2. The DEFRA tool available on the Government website was used to obtain the conversion factors used to calculate emissions in kg CO₂e (Carbon Dioxide Equivalent) using 2016 data. WTT (Well to Tank) conversion factors to quantify Scope 3 emissions associated with energy use were obtained using the same tool.

5. Organisational Boundary

- 5.1. The organisational boundary has been established using the financial control approach for all sites that were reported for National Indicators (NI's) 185 & 194 to ensure consistency.
- 5.2. Schools that have converted to Academies are excluded as the Council does not exercise financial control.

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6. Operational Scopes

6.1. Scope 1, Scope 2 and significant Scope 3 emissions have been measured and are reported.

| Scope 1 (in metric tonnes CO ₂ e) | 2016/17 | Exclusions | % of activity data that is estimated | 2015/16 | 2008/09 (Baseline) |
|---|---------------|------------|--------------------------------------|---------------|--------------------|
| Oil | 286 | 0 | 0 | 449 | 3,013 |
| Gas | 9,606 | 0 | 3.79*** | 10,253 | 16,202 |
| Fleet | 588 | 0 | 0 | 425 | 1,391 |
| Process | 0 | * | 100 | 0 | 0 |
| Fugitive | 0 | ** | 100 | 0 | 0 |
| TOTAL | 10,480 | | | 11,128 | 20,606 |

* Not Applicable – Wirral Council operates no industrial processes.

** Emissions from air-conditioning and refrigeration units are excluded due to the cost of data collection and resource scarcity. These types of unit are not installed in all buildings.

*** Percentage of annual consumption reported for CRC as estimated.

| Scope 2 (in metric tonnes CO ₂ e) | 2016/17 | Exclusions | % of activity data that is estimated | 2015/16 | 2008/09 (Baseline) |
|---|---------------|------------|--------------------------------------|---------------|--------------------|
| Grid Electricity | 13,930 | 0 | 2.24* | 17,365 | 27,598 |
| TOTAL | 13,930 | | | 17,365 | 27,598 |

* Percentage of annual consumption reported for CRC as estimated.

| Scope 3 (in metric tonnes CO ₂ e) | 2016/17 | Exclusions | % of activity data that is estimated | 2015/16 | 2008/09 (Baseline) |
|---|--------------|------------|--------------------------------------|--------------|--------------------|
| Fuel & Energy not in 1 & 2 (WTT) | 5,014 | 0 | 3.25 | 5,799 | 6,000 |
| Business travel | 638 | 0 | 0 | 667 | 1,189 |
| Water | 305 | 0 | 0* | 225 | 325 |
| TOTAL | 5,957 | | | 6,692 | 7,514 |

* Waste water component included.

6.2. The updated guidance that has been published recommends the inclusion of a number of new Scope 3 emissions that may be included. Wirral council is evaluating the relevance of each to its operations and will develop suitable strategies for their inclusion as resources permit. The strategies will include the development of reliable baseline figures and consistent measurement methods.

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7. Geographic Breakdown

7.1. All Wirral Council's activities are UK based.

| Geographical breakdown | | | |
|------------------------|-----------------------------|---------|---------|
| 2016/17 | Tonnes of CO ₂ e | | |
| | Scope 1 | Scope 2 | Scope 3 |
| Total Global | 10,480 | 13,930 | 5,957 |
| UK | 10,480 | 13,930 | 5,957 |

8. Base year

- 8.1. A base year of 2008/09 (01/04/08 to 31/03/09) has been selected. This was the baseline year for NI's 185 and 194 for which energy data was submitted to DECC, verified by their agents and returned to the Council.
- 8.2. The Energy consumption information for 2008/09, previously used to calculate CO₂ emissions has been used to calculate greenhouse gas (GHG) emissions expressed as CO₂e (carbon dioxide equivalent).
- 8.3. Guidance for both GHG reporting and CRC has changed significantly in 2013. Like most local authorities Wirral Council is undergoing a transformation in response to budgetary constraints. This is likely to significantly alter Council Activities and Estate. Combined these factors together with the need to consider expanding reporting of Scope 3 emissions means that reviewing baseline and scope reported has been postponed in order to be able to report in an efficient and consistent manner.

9. Targets

- 9.1. Emissions targets are set with the long-term goal of reducing the Council's CO₂ emissions by 60% by 2025 and to adapt to the changes in climate that will occur.
- 9.2. The most recent Carbon Performance Summary reported a 33.06% reduction in CO₂ emissions against the 2008/09 baseline.

10. Intensity Measurement

- 10.1. The intensity measurement used is “Tonnes of CO₂e per £m Total Income”. The income figure is obtained from the Council’s “REVENUE MONITORING 2016/17 QUARTER 3 (TO 31 DECEMBER 2016)” report.
- 10.2. The intensity measurement has reduced for 2016/17.

11. External Assurance Statement

- 11.1. No external independent assurance statement has been commissioned to cover the reporting period.

12. Carbon Offsets

- 12.1. Wirral Council has not purchased any carbon credits over the reporting period.
- 12.2. Wirral Council has had no involvement in the Woodland Carbon Units scheme to date.

13. Electricity

Electricity purchased for own use or consumption: 33,806 MWh
Green Electricity Purchased: 10,234 MWh
GHG Reduction due to purchase of ‘green’ electricity: 4,217tonnes CO₂e

- 13.1. Over the 2016/17 financial year Wirral Council purchased electricity for approximately 380 reportable supply points including 6 un-metered MPAN’s (Meter Point Administration Numbers). Wirral Council purchases energy under a managed supply arrangement.
- 13.2. The withdrawal of the CCL exemption for ‘green’ electricity has led to a reduction in the amount purchased. Prior to the withdrawal of the CCL exemption, it was possible to purchase ‘green’ electricity with no financial penalty. This is no longer generally the case. The supplier of Non Half-Hourly electricity continues to supply a number of accounts with electricity from renewable sources where there is no financial penalty.
- 13.3. All 6 un-metered MPAN’s are supplied by EDF. For the reporting period, the supplies were 100% ‘brown’.
- 13.4. None of the Half Hourly Metered (HHM) sites supplied by EdF and covered by this GHG report are supplied with Green Electricity.

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- 13.5. Reported Non Half-Hourly (NHH) electricity is supplied by British Gas Business. For the 2016/17 Financial Year, approximately 78.43% of the electrical energy supplied was classified as 'green'.
- 13.6. Wirral Council generated 504.063 MWh of electricity from 24 on-site solar PV systems. None are backed up by REGO's within the UK but all are Feed-In-Tariff Scheme (FITS) registered.

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