

## Greenhouse Gas Report: 2017-18

Newcastle City Council recognises that climate change has far reaching implications for Newcastle's people and understand the need to do as much as possible locally to reduce its effects. In order to achieve this we have developed Newcastle's Climate Change Strategy which sets out our overall programme and can be found at <http://www.newcastle.gov.uk/environment/environment/climate-change?opendocument>. The strategy outlines our targets, our data, current governance arrangements and our programme for delivering carbon reductions.

This report provides an annual overview of our carbon emissions and follows guidance provided by DEFRA which can be found here:

<https://www.gov.uk/government/publications/environmental-reporting-guidelines-including-mandatory-greenhouse-gas-emissions-reporting-guidance>

GHG emissions data for period 1 April 2017 to 31 March 2018			
	Global tonnes of CO2e (Total Direct)		
	2017/18	2016/17	Base Year 2009/10
Scope 1	34,966	33,914	46,234
Scope 2	24,118	28,704	41,599
Scope 3	3,198	3,559	5,165
<b>Total gross emissions</b>	<b>62,282</b>	<b>66,177</b>	<b>92,998</b>
Carbon offsets	0	0	0
Green tariff	0	0	0
<b>Total net emissions</b>	<b>62,282</b>	<b>66,177</b>	<b>92,998</b>
Out of scopes emissions	4,480	3,971	n/a
<b>Intensity Measurement 'Tonnes of CO2e per £M gross operating expenditure'</b>	68	91	91

## **Company Information**

Newcastle City Council, Civic Centre, Newcastle upon Tyne, NE1 8QH

## **Reporting period**

1<sup>st</sup> April 2017 to 31<sup>st</sup> March 2018

## **Change in Emissions**

Newcastle City Council's absolute CO<sub>2</sub>e emissions have decreased by 6% during 2017/18. Reductions are shown across the majority of our reporting boundary with the biggest change seen in our electricity emissions which fell by 15.7% this year. Whilst the change in electricity emissions is significant it has been influenced by a 15% drop in the emission factor between the last two reporting years. This is due to a significant decrease in coal generation, and an increase in gas and renewables generation in 2015 (the inventory year for which the 2017 GHG Conversion Factor was derived).

Other key changes include a 2.7% reduction in emissions associated with water and 1.5% reduction in business travel emissions. Our current Greenhouse Gas figures are 33% down from our base year 2009/10.

One area showing a small increase this year is emissions from our use of natural gas which increased by 3.9% this year. This result was heavily influenced by a colder year than previous and weather correcting this data actually shows a reduction of 7.9%

Using the intensity measure detailed later in this report, our performance equates to a 25% reduction in CO<sub>2</sub>e per pound of operating expenditure against 2016/17.

## **Approach**

Our approach follows guidance provided by DEFRA which can be found here:

<https://www.gov.uk/government/publications/environmental-reporting-guidelines-including-mandatory-greenhouse-gas-emissions-reporting-guidance>

## Organisational Boundary

We have adopted the Financial Control approach to defining our boundary as recommended within the DEFRA guidance. All operational and non-operational buildings have been included in line with this approach. Emissions relating to individual social housing are generally excluded from this report however emissions from our landlord supplies and communal heating schemes have been included. This extends to include Byker Community Trust assets managed through our corporate energy portfolio. To ensure a consistent approach we have also chosen to include schools and academies situated within our geographical region and a number of services traditionally delivered by the city council which are now operated by partner organisations.

## Operational Scopes

We have measured and included Scope 1, 2 and some Scope 3 emissions

	GHG emissions 2017/18 - tCO <sub>2</sub> e
<b>Scope 1</b>	
Gas Consumption	30,132
Transport Fuel Consumption	4,834
Process emissions	0
Fugitive emissions	0
<b>Total Scope 1</b>	<b>34,966</b>
<b>Scope 2</b>	
Electricity (Generation)	24,118
<b>Total Scope 2</b>	<b>24,118</b>
<b>Significant Scope 3</b>	
Electricity (Transmission & Distribution)	2,255
Water Consumption	113
Water Treatment/Sewerage	233
Business Travel	597
<b>Total Significant Scope 3</b>	<b>3,198</b>
<b>Out of Scope emissions</b>	
Bio-diesel element	113
Biomass – Pellet	850
Biomass – Woodchip	3,517
<b>Total Out of Scope emissions</b>	<b>4,480</b>

Emissions from natural gas typically used to heat our buildings have been included. We have also included emissions from electricity including unmetered public street lighting and road traffic signals. Emissions associated with air conditioning refrigerants have been excluded due to the nature of data collection, we estimate that these account for less than 0.5% of our total footprint emissions. Transport fuel emissions include all Diesel, Petrol, LPG and Gas-Oil consumption across our organisation. We have included Scope 3 emissions where data was considered to be robust. This is limited to staff business travel, including air, rail, bus and taxi journeys and emissions from business journeys made by employees using their own vehicles. Emissions associated with the supply of water and treatment of water have also been included. The inclusion of further Scope 3 emission sources will be considered in future years as data quality and availability improves. We have included emissions associated with our use of biofuels including biomass and have included these within the 'Out of Scope' emissions section of this report.

### **Geographical Breakdown**

All of Newcastle City Councils activities and operations fall within the UK and have therefore been included within this report, in line with the DEFRA reporting methodology.

### **Base Year**

Our baseline year is 1<sup>st</sup> April 2009 – 31<sup>st</sup> March 2010.

### **Targets**

Newcastle City Council is committed to tackling Climate Change and to work with residents and partners to reduce the city's carbon emissions by 34% (from 1990 levels) by 2020. These targets relate to our city wide aspirations and include elements outside the scope of this report. Reductions in our reported greenhouse gas emissions contribute towards these wider targets and we are aiming for year on year reductions to support the achievement of the city wide targets.

## **Intensity Measurement**

We have used the intensity measure 'tonnes of CO<sub>2</sub>e per £M operating expenditure' to enable normalisation of the data. This is the common metric used by public sector organisations.

**For Information relating to this report please contact**  
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