

## Greenhouse Gas Report: 2018-19

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 2018 to 31 March 2019			
	Global tonnes of CO <sub>2</sub> e (Total Direct)		
	2018/19	2017/18	Base Year 2009/10
Scope 1	32,500	34,966	46,234
Scope 2	19,150	24,118	41,599
Scope 3	2,452	3,198	5,165
<b>Total gross emissions</b>	<b>54,102</b>	<b>62,282</b>	<b>92,998</b>
Carbon offsets	0	0	0
Green tariff	0	0	0
<b>Total net emissions</b>	<b>54,102</b>	<b>62,282</b>	<b>92,998</b>
Out of scopes emissions	3,554	4,480	n/a
<b>Intensity Measurement 'Tonnes of CO<sub>2</sub>e per £M gross operating expenditure'</b>	64	68	91

### Company Information

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

### Reporting period

1<sup>st</sup> April 2018 to 31<sup>st</sup> March 2019

## **Change in Emissions**

Newcastle City Council's absolute CO<sub>2</sub>e emissions have decreased by 13% during 2018/19. Reductions are shown across most of our reporting boundary with the biggest change seen in our electricity emissions which fell by 21% this year. Whilst the change in electricity emissions is significant it has been influenced by a 19% 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 2016 (the inventory year for which the 2018 GHG Conversion Factor was derived).

Our other key changes include an 11% reduction in natural gas emissions and a 13% reduction in both water and business travel emissions.

One area showing an increase this year is our use of gas-oil. This is primarily due to a temporary generator used to heat one of our main council offices during a heating system upgrade. The result means our combined emissions for fleet transport and bulk fuels has risen by 17%.

Our current Greenhouse Gas figures are 41% down from our base year 2009/10. Using the intensity measure detailed later in this report, our performance equates to a 6% reduction in CO<sub>2</sub>e per pound of operating expenditure against 2017/18.

## **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 2018/19 - tCO <sub>2</sub> e
<b>Scope 1</b>	
Gas Consumption	26,820
Fleet Transport & Bulk Fuel Consumption	5,680
Process emissions	0
Fugitive emissions	0
<b>Total Scope 1</b>	<b>32,500</b>
<b>Scope 2</b>	
Electricity (Generation)	19,150
<b>Total Scope 2</b>	<b>19,150</b>
<b>Significant Scope 3</b>	
Electricity (Transmission & Distribution)	1,632
Water Consumption	99
Water Treatment/Sewerage	202
Business Travel	519
<b>Total Significant Scope 3</b>	<b>2,452</b>
<b>Out of Scope emissions</b>	
Bio-diesel element	94
Biomass – Pellet	823
Biomass – Woodchip	2,637
<b>Total Out of Scope emissions</b>	<b>3,554</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**

On 3 April 2019, Newcastle City Council declared a Climate Emergency, meaning we are committed to making Newcastle carbon neutral by 2030. We have an ambitious programme of interventions of what we as a council can influence through our policies, programmes, projects and services, but this fundamentally requires a whole city approach, with businesses, universities, the private sector, residents and communities. Further details can be found at <https://www.newcastle.gov.uk/our-city/climate-change-newcastle>

### **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 email [energy@newcastle.gov.uk](mailto:energy@newcastle.gov.uk)**