

# CHELTENHAM BOROUGH COUNCIL

## Annual report on greenhouse gas emissions

### Financial year 2013/14

This report has been produced using DEFRA's 'Guidance on how to measure and report your greenhouse gas emissions'.

#### Emissions results for 2013/14

GHG emissions data for period 1 <sup>st</sup> April 2013 to 31 <sup>st</sup> March 2014 (Kilos CO <sub>2</sub> e)						
	2013/14	2012/13	2011/12	2010/11	2009/10	Base year 2005/6
Scope 1	2,913,875	3,082,112	2,637,223	2,977,403	2,971,392	3,213,314
Scope 2	1,361,397	1,402,710	1,481,883	1,638,654	1,779,072	1,717,054
Scope 3	148,158	145,382	178,756	193,850	199,013	158,849
<b>TOTAL GROSS EMISSIONS</b>	<b>4,423,430</b>	<b>4,630,204</b>	<b>4,297,862</b>	<b>4,809,907</b>	<b>4,949,477</b>	<b>5,089,217</b>
Carbon offsets	0	0	0	0	0	0
Green tariffs	0	0	0	0	0	0
Emissions from residual household waste sent to landfill	7,808,454	7,730,199	6,843,509	9,029,423	Not available	Not available
Emissions saved by diverting waste from landfill	5,596,513	5,867,986	5,658,527	3,787,340	Not available	Not available

#### Organisation information

Cheltenham Borough Council is a second-tier local authority in Gloucestershire and employs around 300 FTE staff (excluding casual and temporary). Cheltenham Borough has a geographic area of 4,663 hectares and a population of 112,700. Our address is: Municipal Offices, Promenade, Cheltenham, Glos GL50 9SA.

#### Reporting period

1<sup>st</sup> April 2013 to 31<sup>st</sup> March 2014.

#### Organisational boundary

The council owns a diverse range of properties. We have seven large sites, which includes a leisure centre and a number of listed buildings. We also own a wide range of smaller sites including toilets, pavilions, car parks, fountains and other miscellaneous properties. Several of these are leased out and where tenants receive their energy bills direct from the supplier these properties are not included in this report.

#### Housing stock

The council's housing stock is managed by an Arms Length Management Company, Cheltenham Borough Homes (CBH). Where CBH operations are housed in council buildings their energy consumption is included in this report, where operations are housed in other buildings it is not. Fuel consumption by the CBH fleet is also included, although the council has no control over the size, use or efficiency of the fleet. Emissions from all the council's housing stock, including sheltered housing, are excluded in this report.

## Waste & recycling service

Since April 2012, the council's waste & recycling service has been delivered by Ubico, a company wholly owned by Cheltenham Borough Council and Cotswold District Council. Emissions attributable to Ubico are therefore listed separately in this report.

## **Operational scopes**

We have measured our scope 1 and 2 emissions and some significant scope 3 emissions. Scope 3 includes business travel and the transmission and distribution (T&D) element for electricity; the council has no control over this element of electricity consumption.

	GHG emissions 2013/14 (kilos CO <sub>2</sub> e)	GHG emissions 2012/13 (kilos CO <sub>2</sub> e)	GHG emissions 2011/12 (kilos CO <sub>2</sub> e)	GHG emissions 2010/11 (kilos CO <sub>2</sub> e)	GHG emissions 2009/10 (kilos CO <sub>2</sub> e)	2005/6 baseline
<b>Scope 1</b>						
Council gas	1,726,623	1,854,880	1,545,556	1,769,250	1,759,676	1,964,113
Council fleet diesel	Included under Ubico figure	28,844	917,155	1,004,263	986,930	1,023,237
Council fleet petrol		7,736	49,582	58,637	72,871	84,583
Council fleet gas oil		0	4,692	18,121	14,100	13,381
Council LPG		0	0	0	0	834
CBH gas		16,118	21,325	31,723	28,395	28,159
CBH fleet diesel	86,236	79,142	79,523	84,651	93,675	101,108
CBH fleet petrol		115	96	594	253	14,118
CBH LPG		0	0	0	0	439
CBH gas oil		0	8	0	0	1,015
Ubico gas		104,595	137,921	0	0	0
Ubico fleet diesel	972,633	880,734	0	0	0	0
Ubico fleet petrol		44,199	0	0	0	0
Ubico gas oil		12,571	0	0	0	0
Recharged gas	7,670	14,645	8,888	13,492	15,728	Not known
<b>TOTAL SCOPE 1</b>	<b>2,913,875</b>	<b>3,082,112</b>	<b>2,637,223</b>	<b>2,977,403</b>	<b>2,971,392</b>	<b>3,213,314</b>
<b>Outside of scopes</b>	Note: this is a new reporting requirement for 2013/14 which relates to calculating emissions for the biogenic portion of blended fuels. However, it has not been possible to report the figures because the calculation requires litres of fuel and only emissions figures for fuel were supplied by Ubico. This will be rectified for future years.					
<b>Scope 2</b>						
Council electricity	1,279,461	1,273,121	1,404,867	1,545,935	1,694,811	1,670,124
CBH electricity	8,880	23,986	29,880	37,494	40,846	46,930
Ubico electricity	55,115	62,406	0	0	0	0
Recharged electricity	17,941	43,197	47,136	55,225	43,415	Not known
<b>TOTAL SCOPE 2</b>	<b>1,361,397</b>	<b>1,402,710</b>	<b>1,481,883</b>	<b>1,638,654</b>	<b>1,779,072</b>	<b>1,717,054</b>
<b>Scope 3</b>						
Mileage claims	35,433	34,573	52,122	59,474	53,736	Not collected

Rail travel	Not known	Not known	Not available	2,422	4,409	Not collected
Council electricity (T&D)	105,940	100,572	120,053	124,488	134,196	154,507
CBH electricity (T&D)	735	1,895	2,553	3,019	3,234	4,342
Ubico electricity (T&D)	4,564	4,930	0	0	0	0
Recharged electricity (T&D)	1,486	3,412	4,028	4,447	3,438	0
<b>TOTAL SCOPE 3</b>	<b>148,158</b>	<b>145,382</b>	<b>178,756</b>	<b>193,850</b>	<b>199,013</b>	<b>158,849</b>

We have used the published DEFRA emissions factors for 2013 for all 2013/14 calculations. We have not been able to provide the same level of detail for fuel use as in previous years because of the way that the data has been collected, but this will be rectified for future years.

### Changes in emissions compared with 2012/13

Our overall reported emissions have gone down by 4.5%.

Emissions from gas have gone down by 8.5%. This is most likely attributable to a reduction in consumption by our heating boilers due to the warmer winter.

Emissions from electricity have gone down by 2.9%. Electricity consumption at the majority of our large sites decreased, but a major refurbishment and new extension to our Art Gallery & Museum, which reopened in October 2013, has resulted in a significant increase in consumption at this building.

Emissions from our fleet have remained largely static.

Emissions from business mileage claims have gone up by 2.5%. This is probably a reflection of the move towards sharing more services with other councils.

Emissions from the transmission and distribution of electricity have increased, but the conversion factor is greater than that used for 2012/13 and the T&D element of electricity consumption is beyond our control.

### Base year

Our base year is 2005/6 but it does not include business travel.

### Targets

We have a target to reduce our carbon emissions by 30% from 2005/6 levels by 2015. Historically this has applied only to emissions within the council's direct control and has therefore excluded CBH and recharged emissions. The creation of Ubico has further reduced the extent of the council's direct control, but for consistency these figures are included.

Excluding business travel, overall, our emissions have gone down by 13.7%. Emissions from gas have gone down by 6.8% and from electricity by 20%. Emissions from our fleet have gone down by 13.3% since 2005/6.

**Carbon offsets**

We have not purchased any carbon credits.

**Green tariffs**

We use a climate change levy exempt supply for all our sites, but this does not contribute to reducing our emissions.

**Waste**

Although emissions from waste do not form part of our total emissions figure, we have chosen to report them separately for information because it is an emissions source we have some influence over as a waste collection authority. It also provides context for our other emissions. The figures are approximate; some assumptions have been made and conversion factors are not available for all waste streams. We have used the 2013 UK Government conversion factors to calculate the figures for 2013/14.