



Greenhouse Gas (GHG) Emissions 2016/17

Cotswold District Council

Summary – GHG Emissions Data (tCO₂e)

Scope	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17
One	2,086	1,862	1,858	1,799	1,797	1,732	1,837	1,652
Two	1,245	1,149	1,101	1,110	1,023	966	925	783
Three	5,569	5,562	4,877	4,922	5,144	4,531	7,067	6,340
Gross emissions	8,900	8,573	7,836	7,831	7,964	7,229	9,829	8,775
Carbon offsets								
Green tariff								
Total emissions	8,900	8,573	7,836	7,831	7,964	7,229	9,829	8,775

Summary – Carbon Emissions Data (tCO₂)

Scope	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17
One	2,069	1,848	1,846	1,785	1,784	1,719	1,824	1,643
Two	1,237	1,141	1,094	1,103	1,016	958	918	778
Three	220	283	206	221	225	175	179	182
Gross emissions	3,526	3,272	3,146	3,109	3,025	2,852	2,921	2,603
Carbon offsets								
Green tariff								
Total emissions	3,526	3,272	3,146	3,109	3,025	2,852	2,921	2,603

Supporting Notes

- 1. Organisation information:** Cotswold District Council, Council Offices, Trinity Road, Cirencester, Gloucestershire, GL7 1PX
- 2. Reporting period:** 01 April 2016 – 31 March 2017
- 3. Reporting tool:** Defra/DECC's guidelines "June 2013 environmental reporting guidance and the GHG conversion factors web based tool". GHG Conversion Factors have been used for the calculations.
- 4. Approach:** Council has followed the Government's guidance on how to measure and report greenhouse gas emissions.

5. Operational scopes: Cotswold District Council has measured its scope 1, 2 and 3 emissions as follows:

		CO ₂ e (kg)							
Scope	Source	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17
One	Gas consumption	732,338	684,254	536,006	583,008	630,678	616,523	632,639	585,542
	Liquid Fuel – Fleet	39,357	37,278	38,268	22,163	14,376	18,098	15,962	8,550
	Liquid Fuel – Waste	1,313,888	1,140,040	1,283,230	1,193,407	1,152,151	1,097,523	1,188,665	1,058,224
	Total Scope 1	2,085,583	1,861,572	1,857,504	1,798,578	1,797,205	1,732,144	1,837,266	1,652,317
Two	Purchased electricity	1,245,267	1,148,532	1,100,773	1,110,405	1,023,454	965,837	925,038	782,808
	Total Scope 2	1,245,267	1,148,532	1,100,773	1,110,405	1,023,454	965,837	925,038	782,808
Three	WTT Gas	71,127	66,456	55,506	60,249	96,295	82,760	85,164	79,527
	WTT Liquid Fuel - Fleet	7,454	6,828	8,011	4,614	3,073	3,940	3,473	2,222
	WTT Liquid Fuel - Waste	252,068	218,716	272,592	253,510	207,016	239,774	259,526	263,070
	Business travel – Staff mileage	122,177	191,712	112,711	134,069	139,047	91,558	104,176	112,091
	Business travel - Rail	1,134	862	411	387	213	392	214	210
	Waste collection to landfill	4,960,417	4,946,417	4,146,420	4,178,559	4,393,906	3,831,336	6,352,101	5,662,871
	Water supply	16,069	11,138	10,214	7,543	13,600	12,115	12,012	6,861
	Water treatment	40,172	27,845	21,031	15,966	28,002	24,944	24,721	14,121
	Electricity T&D	98,601	92,485	94,067	87,718	87,509	84,456	76,374	70,805
	WTT Electricity			156,404	166,553	161,577	147,086	137,858	117,559
	WTT Electricity T&D				13,155	13,807	12,858	11,388	10,639
	Total Scope 3	5,569,219	5,562,459	4,877,367	4,922,324	5,144,043	4,531,218	7,067,007	6,339,976
	Total emissions	8,900,069	8,572,563	7,835,644	7,831,307	7,964,703	7,229,199	9,829,310	8,775,100

* Numbers may not add up because of rounding

		CO ₂ (kg)							
Scope	Source	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17
One	Gas consumption	730,836	682,850	537,108	581,812	629,376	615,137	631,335	584,423
	Liquid Fuel - Fleet	38,906	36,889	38,339	21,994	14,263	17,956	15,842	8,461
	Liquid Fuel - Waste	1,299,699	1,128,025	1,270,348	1,180,766	1,139,933	1,086,148	1,176,738	1,049,955
	Total Scope 1	2,069,441	1,847,764	1,845,795	1,784,572	1,783,572	1,719,241	1,823,916	1,642,839
Two	Purchased electricity	1,237,021	1,141,147	1,093,760	1,103,260	1,016,332	957,962	917,652	778,096
	Total Scope 2	1,237,021	1,141,147	1,093,760	1,103,260	1,016,332	957,962	917,652	778,096
Three	Business travel – Staff mileage	121,466	190,636	112,233	133,279	138,305	90,966	103,571	111,263
	Business travel - Rail	1,072	815	388	366	212	389	213	209
	Electricity T&D	97,945	91,895	93,458	87,163	86,911	83,773	75,774	70,387
	Total Scope 3	220,483	283,346	206,079	220,808	225,428	175,128	179,557	181,858
	Total emissions	3,526,945	3,272,258	3,145,634	3,108,640	3,025,332	2,852,331	2,921,125	2,602,794

* Numbers may not add up because of rounding

6. Base year: 2009/10

7. Targets: Cotswold District Council will reduce the CO₂ emissions from its service provision activities by 25% against the baseline by 2016/17.

8. Change in emissions: For Greenhouse Gas Emissions (CO₂e):

- 1% reduction against the baseline year (2009/10)
- 11% reduction against the previous year (2015/16)

For 2016/17 Carbon Dioxide Emissions (CO₂)

- 26.2% reduction against the baseline year (2009/10)
- 10.9%%reduction against the previous year (2015/16)

9. Additional information: Energy efficient improvements have been made to the Trinity Road offices. This includes gas boiler replacement and introducing LED lighting.

10. Additional information: Carbon emissions from staff business has increased due to the initiation of the 2020 services with staff travelling between three councils whilst the changes come into effect.

11. Additional information: Some data is missing due to staff changing during the year. Also Fleet data will be reviewed in future years due to staff using vehicles on behalf of not only CDC but Forest of Dean and West Oxfordshire District Councils

12. Audit: CDC's GHG emissions analysis has been audited by internal audit.

13. Council contact: Louise Croot, Shared Energy & Resources Officer,
louise.croot@cotswold.gov.uk