

Annual Greenhouse Gas report 2017/2018
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I Introduction: Greenhouse Gas Reporting Requirements

Climate change and tacking greenhouse gas (GHG) emissions is an important activity across all sectors. Since 2011 local authorities have been required by government to measure and report GHG emissions according to an agreed methodology.

East Hampshire District Council [figures and trends]

Following the adoption of an Energy Strategy in 2014, the council has implemented many measures to reduce direct carbon emissions and has worked with suppliers and community groups to identify ways to reduce emissions with a wider scope. Leadership in moving to low-carbon lifestyles and delivering an economically vibrant community is part of the vision of the council.

II Reporting period from April 2009 to March 2018

Scope One emissions from gas consumption and owned transport has reduced significantly over the period. Switching to electric vehicles and making the main HQ building at Penns Place more energy efficient has helped to achieve this reduction.

Scope Two emissions from street lighting and purchased electricity has reduced due to street lighting efficiencies.

Scope Three emissions from out-sourced services have reduced slightly, but are harder to measure and track. Water treatment is excluded due to lack of data.

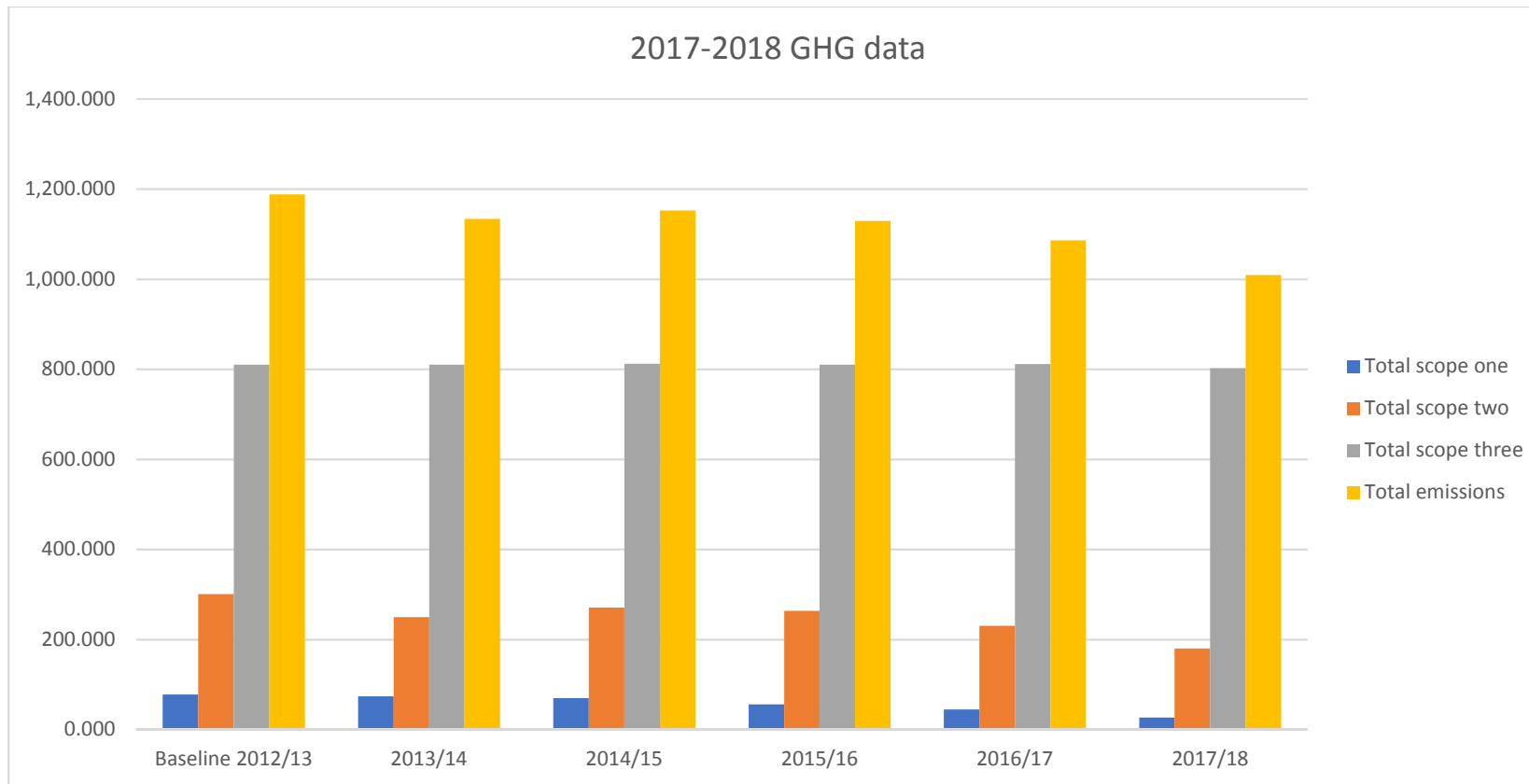
Green House Gas Emissions Summary

Source	tCO2e														
	2009/10	2010/11	2011/12	Baseline 2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	Change since 2012/13	% change since 2012
Total scope one	0.000	0.000	51.463	77.893	73.899	69.831	55.889	44.294	26.832	0.000	0.000	0.000	0.000	-33.598	-43%
Total scope two	394.313	376.374	352.149	300.528	249.587	270.716	263.273	230.356	180.034	0.000	0.000	0.000	0.000	-70.172	-23%
Total scope three	24.446	24.213	23.742	809.977	810.086	812.004	810.121	811.125	802.176	0.000	0.000	0.000	0.000	1.148	0.14%
Total emissions	418.759	400.587	427.354	1,188.398	1,133.572	1,152.552	1,129.283	1,085.775	1,009.042	0.000	0.000	0.000	0.000	-102.623	-9%

Analysis of Emissions in each scope:

Source	tCO2e														
	2009/10	2010/11	2011/12	Baseline 2012/13	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	Change since 2012/13	% change since 2012
Gas consumption			51.463	74.129	70.032	65.935	52.448	43.118	25.515					-31.010	-42%
Owned transport				3.764	3.867	3.897	3.441	1.176	1.317					-2.588	-69%
Total scope one	0.000	0.000	51.463	77.893	73.899	69.831	55.889	44.294	26.832	0.000	0.000	0.000	0.000	-33.598	-43%
Street lighting	178.759	165.976	162.738	107.740	67.713	73.150	67.018	54.391	40.078					-53.349	-30%
Purchased electricity	215.554	210.398	189.411	192.788	181.874	197.566	196.255	175.965	139.956					-16.823	-8%
Total scope two	394.313	376.374	352.149	300.528	249.587	270.716	263.273	230.356	180.034	0.000	0.000	0.000	0.000	-70.172	-23%
Outsourced services				787.490	787.490	787.490	787.490	787.490	787.490					0.000	0%
Transmission & distribution of electricity	17.068	16.942	16.186	15.230	15.551	17.276	16.204	15.916	13.086					0.686	5%
Water supply	7.379	7.270	7.556	7.257	7.045	7.238	6.428	7.719	1.600					0.462	6%
Total scope three	24.446	24.213	23.742	809.977	810.086	812.004	810.121	811.125	802.176	0.000	0.000	0.000	0.000	1.148	0.14%
Total emissions	418.759	400.587	427.354	1,188.398	1,133.572	1,152.552	1,129.283	1,085.775	1,009.042	0.000	0.000	0.000	0.000	-102.623	-9%

Graph



III Breakdown of gases

Breakdown of GHG emissions by gas type (t)															
Scope	2016/17			2015/16			2014/15			2013/14			2012/13 (Baseline)		
	CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O	CO ₂	CH ₄	N ₂ O
One	31.50	0.04	0.02	55.77	0.08	0.04	69.67	0.11	0.05	73.74	0.11	0.05	77.73	0.11	0.06
Two	228.97	0.22	1.17	261.17	0.20	1.90	268.51	0.18	2.02	247.85	0.16	1.57	298.59	0.18	1.74
Three	15.82	0.01	0.08	44.71	0.04	0.27	56.45	0.05	0.35	129.97	0.12	0.59	74.13	0.06	0.34

IV Scope Breakdown

Scope one	Scope two	Scope three	Not included
Natural gas in use at offices and owned leisure centres	Electricity used in council offices and in street lighting	Contractor electricity and gas, oil and fuel for transport	Business miles; staff commuting
Fuel in council fleet		Water supply	Council office waste collection, treatment and disposal
			Water treatment

V Local Authority BEIS data

Source: <https://www.gov.uk/government/statistics/uk-local-authority-and-regional-carbon-dioxide-emissions-national-statistics-2005-2016>

Year	Industry and Commercial Total	Domestic Total	Transport Total	N. LULUCF Net Emissions	Grand Total	Population ('000s, mid-year estimate)	Per Capita Emissions (t)
2005	261.1	309.3	366.1	-43.5	893.0	110.5	8.1
2006	259.4	311.2	354.6	-44.7	880.5	111.1	7.9
2007	256.2	299.1	357.0	-47.6	864.7	112.3	7.7
2008	243.6	304.2	346.2	-48.8	845.2	113.2	7.5
2009	239.9	276.6	334.2	-50.0	800.8	114.3	7.0
2010	264.1	297.6	330.8	-51.2	841.3	115.4	7.3
2011	236.0	260.7	328.8	-52.6	773.0	116.0	6.7
2012	223.8	280.9	331.0	-54.0	781.7	116.6	6.7
2013	200.5	273.9	337.1	-54.1	757.5	117.4	6.5
2014	181.2	232.6	345.2	-55.2	703.8	118.0	6.0
2015	164.1	226.1	354.2	-57.2	687.3	118.7	5.8
2016	144.4	213.2	364.5	-57.0	665.0	118.7	5.6

VI Implementation of Low-carbon initiatives

Following introduction of EVs to replace some fleet vehicles, EHDC has rolled out a network of EV charge-point locations for use by the public in strategic locations. Additionally, assistance has been provided to community groups and advice on energy performance for local community buildings. An energy audit of a leisure centre provides potential energy savings which will lower carbon emissions further.