

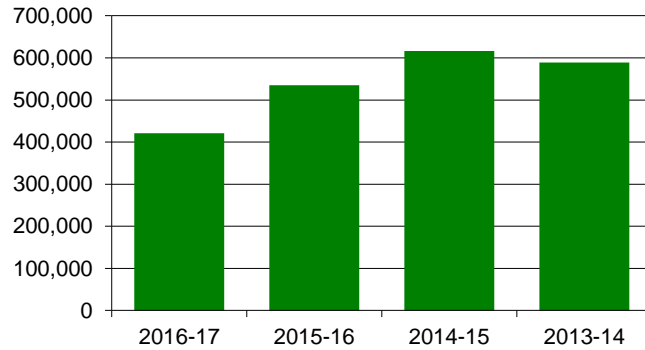
# Scarborough Borough Council



## **Green House Gases Annual Report 2016/17 Analysis Annex**

## Gas

	2016-17	2015-16	2014-15	2013-14
<b>KWH</b>	2,015,411	2,560,941	2,937,784	2,776,607
<b>Total kg CO2e</b>	421,201	535,211	615,936	589,029
<b>% change kg CO2e from baseline (2013-14)</b>				<b>-28.5%</b>
<b>% change kg CO2e from previous year (2014-15)</b>				<b>-21.3%</b>



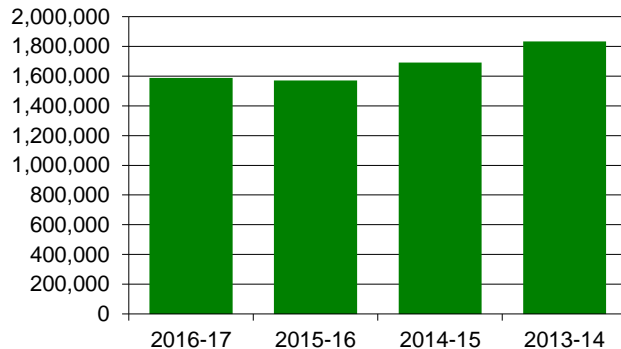
In 2016/17 the Council's CO2e from gas consumption as reduced by 22.8% on 2013/14.

	2016-17 KWH		2015-16 KWH		2014-15 KWH		2015-16 % Change
<b>Manor Road</b>	620,086	30.8%	796,446	39.5%	974,614	38.1%	-22.1%
<b>Town Hall</b>	390,117	19.4%	548,181	27.2%	535,791	20.9%	-28.8%
<b>Evron</b>	242,820	12.0%	315,498	15.7%	289,820	11.3%	-23.0%
<b>Dean Road</b>	233,170	11.6%	250,341	12.4%	265,587	10.4%	-6.9%
<b>Other Sites</b>	95,423	4.7%	192,505	9.6%	440,621	17.2%	-50.4%
<b>Falsgrave Centre</b>	142,604	7.1%	156,290	7.8%	104,058	4.1%	-8.8%
<b>TIC</b>	88,552	4.4%	101,911	5.1%	83,990	3.3%	-13.1%
<b>Art Gallery</b>	99,211	4.9%	78,873	3.9%	80,680	3.2%	25.8%
<b>Kings Street</b>	30,919	1.5%	37,273	1.8%	69,925	2.7%	-17.0%
<b>New Quay PC</b>	18,691	0.9%	32,398	1.6%	32,829	1.3%	-42.3%
<b>Whitby Harbour Office</b>	30,376	1.5%	31,167	1.5%	30,440	1.2%	-2.5%
<b>West Pier PC</b>	23,442	1.2%	20,058	1.0%	29,429	1.1%	16.9%
	<b>2,015,411</b>		<b>2,560,941</b>		<b>2,937,784</b>		<b>-21.3%</b>

## Electricity

	2016-17	2015-16	2014-15	2013-14
<b>KWH</b>	3,348,349	3,313,274	3,354,090	3,600,828
<b>Scope 2 kg CO2e</b>	1,379,687	1,365,235	1,562,603	1,695,162
<b>Scope 3 kg CO2e</b>	207,196	205,025	127,992	137,156
<b>Total kg CO2e</b>	1,586,883	1,570,260	1,690,596	1,832,317
<b>% change kg CO2e on baseline (2013/14)</b>	<b>-88.7%</b>			
<b>% change kg CO2e on previous year (2014/15)</b>	<b>1.1%</b>			

Using the 'market-based' reporting method under the GHG Protocol Corporate Standard, Scope 2, the electricity purchased can be matched to Renewable Energy Guarantees of Origin (REGOs), allowing the Council to report zero emissions for 'Scope 2' purchased

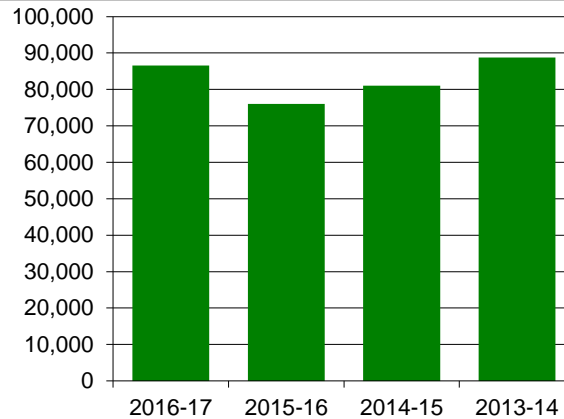


2016/17 Council's CO2e from electricity consumption has reduced by 88.7% on 2013/14. This large reduction is due to how we purchase our electricity.

	2016-17 KWH		2015-16 KWH		2014-15 KWH		2015-16 % Change
<b>Other sites</b>	1,273,307	38.0%	932,880	27.9%	586,008	17.7%	<b>36.5%</b>
<b>Unmetered Lighting</b>	743,372	22.2%	743,372	22.2%	1,013,559	30.6%	0.0%
<b>Town Hall</b>	392,015	11.7%	494,747	14.8%	493,976	14.9%	-20.8%
<b>Filey Caravan Park</b>	225,890	6.7%	302,044	9.0%	299,606	9.0%	-25.2%
<b>Dean Road</b>	102,958	3.1%	114,365	3.4%	157,219	4.7%	-10.0%
<b>Evron</b>	90,595	2.7%	111,270	3.3%	104,486	3.2%	-18.6%
<b>Fish Market</b>	72,090	2.2%	85,654	2.6%	99,192	3.0%	-15.8%
<b>West Pier</b>	36,848	1.1%	81,718	2.4%	36,703	1.1%	-54.9%
<b>Scarborough Market</b>	90,051	2.7%	79,560	2.4%	82,423	2.5%	<b>13.2%</b>
<b>OAT</b>	78,042	2.3%	78,081	2.3%	63,845	1.9%	0.0%
<b>Harbour Hutt</b>	43,610	1.3%	52,059	1.6%	45,613	1.4%	-16.2%
<b>Manor Road</b>	50,549	1.5%	51,058	1.5%	70,198	2.1%	-1.0%
<b>Customer First</b>	47,307	1.4%	37,696	1.1%	32,286	1.0%	<b>25.5%</b>
<b>Aquarium Top</b>	12,527	0.4%	37,096	1.1%	25,129	0.8%	-66.2%
<b>TIC</b>	13,147	0.4%	25,267	0.8%	27,520	0.8%	-48.0%
<b>Art Gallery</b>	20,604	0.6%	21,026	0.6%	17,813	0.5%	-2.0%
<b>New Quay PC</b>	16,295	0.5%	14,639	0.4%	13,605	0.4%	<b>11.3%</b>
<b>Whitby Cliff Lift</b>	7,132	0.2%	12,125	0.4%	8,038	0.2%	-41.2%
<b>St Nicholas Pub Con</b>	9,884	0.3%	11,399	0.3%	12,158	0.4%	-13.3%
<b>West Pier Pub con</b>	7,754	0.2%	8,621	0.3%	9,098	0.3%	-10.1%
<b>West Cliff Pub Con</b>	5,168	0.2%	6,344	0.2%	8,741	0.3%	-18.5%
<b>Filey Foreshore Pub Con</b>	4,562	0.1%	6,091	0.2%	15,095	0.5%	-25.1%
<b>Khyber Pass Pub Con</b>	3,574	0.1%	2,564	0.1%	3,810	0.1%	<b>39.4%</b>
<b>Pontoons Marina</b>	0	0.0%	1,920	0.1%	126,438	3.8%	-100.0%
<b>Flood lights Bait sheds</b>	1,071	0.0%	1,678	0.1%	1,531	0.0%	-36.2%
<b>All Electricity consumption</b>	<b>3,348,349</b>		<b>3,313,274</b>		<b>3,354,090</b>		<b>1.1%</b>

## Water Supply and Treatment

	2016-17	2015-16	2014-15	2013-14
Water supply & treatment units	82,231	72,225	76,981	84,363
Water supply & treatment kg CO2e	86,556	76,024	81,030	88,800
% Change kg CO2e on baseline (2013/14)	-2.5%			
% Change kg CO2e on previous year (2015/16)	13.9%			



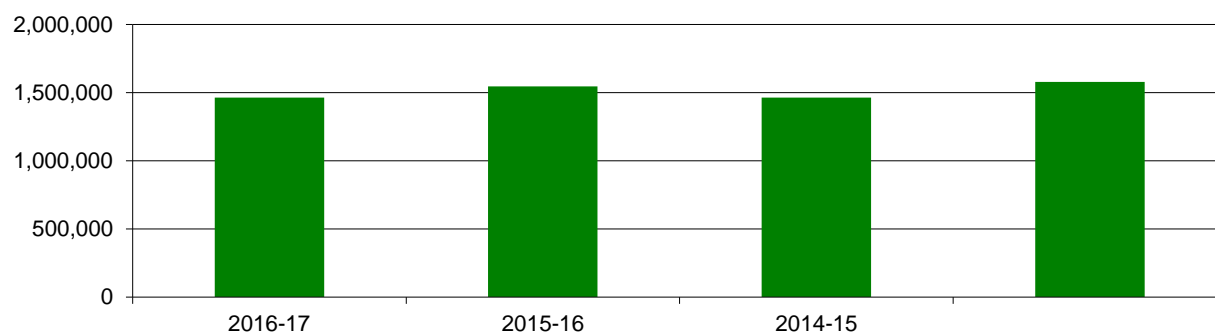
2016/17 Council's CO2e from water consumption has reduced by 2.5% on 2013/14.

	2016-17 units		2015-16 units		2014-15 units		2016-17 % Change
Pub Cons	38,810	47.2%	31,238	38.0%	35,443	49.1%	24.2%
Other Sites	16,270	19.8%	16,539	20.1%	17,727	24.5%	-1.6%
Scarborough Harbour	10,508	12.8%	9,095	11.1%	6,125	8.5%	15.5%
Whitby Harbour	4,075	5.0%	4,125	5.0%	3,834	5.3%	-1.2%
Filey Caravan Park	4,797	5.8%	4,045	4.9%	5,945	8.2%	18.6%
Peasholm Park	2,831	3.4%	2,487	3.0%	2,296	3.2%	13.8%
Dean Road	1,209	1.5%	1,619	2.0%	1,987	2.8%	-25.3%
Manor Road	1,543	1.9%	1,389	1.7%	1,485	2.1%	11.1%
Town Hall	1,346	1.6%	1,001	1.2%	1,356	1.9%	34.5%
Open Air Theatre	842	1.0%	687	0.8%	783	1.1%	22.6%
	82,231		72,225		76,981		13.9%

## Transport Analysis

### Fleet Travel

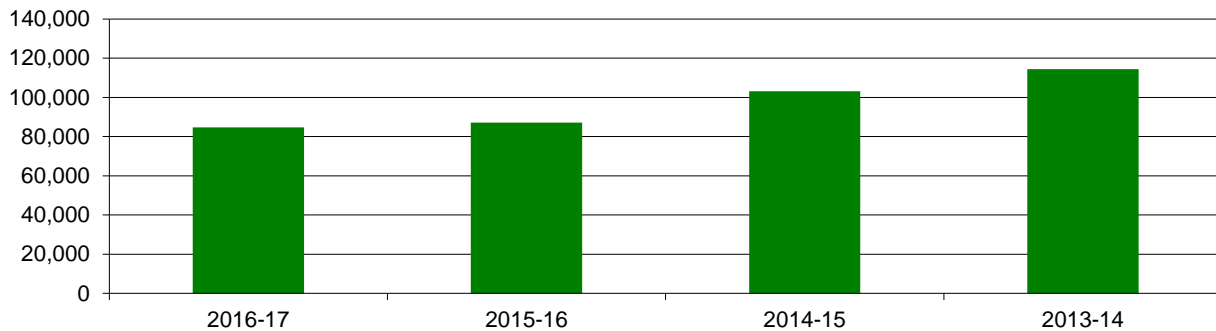
	2016-17		2015-16		2014-15		2013-14	
	Litres	kg CO2e	Litres	kg CO2e	Litres	kg CO2e	Litres	kg CO2e
<b>Diesel</b>	436,451	1,381,785	455,456	1,454,148	434,179	1,374,177	454,686	1,445,128
<b>Gas Oil</b>	3,446	12,140	5,532	19,640	825	2,884	353	1,241
<b>Petrol</b>	26,128	69,456	26,753	71,124	32,739	86,955	48,603	131,054
<b>Total</b>	<b>466,025</b>	<b>1,463,382</b>	<b>487,740</b>	<b>1,544,912</b>	<b>467,744</b>	<b>1,464,016</b>	<b>503,642</b>	<b>1,577,423</b>
<b>% Change kg CO2e on baseline (2013/14)</b>	<b>-7.2%</b>							
<b>% Change kg CO2e on previous year (2014/15)</b>	<b>-5.3%</b>							



2016/17 Council's CO2e from the council's fleet has reduced by 7.2% on 2013/14.

## Business Travel

	2016-17		2015-16		2014-15		2013-14	
	Miles	kg CO2e	Miles	kg CO2e	Miles	kg CO2e	Miles	kg CO2e
<b>Vehicle Travel (Miles)</b>	225,913	80,890	231,871	83,319	265,250	97,688	270,429	105,658
<b>Rail Travel (Miles)</b>	56,442	3,252	66,192	3,813	95,716	5,094	144,704	8,332
<b>Bus Travel (Miles)</b>	826	120	0	0	267	153	1,133	153
<b>Air Travel (Miles)</b>	1,500	504	200	72	650	234	648	256
<b>Sea Travel (Miles)</b>	0	0	24	3	0	0	0	0
<b>Total</b>	<b>284,681</b>	<b>84,766</b>	<b>298,286</b>	<b>87,208</b>	<b>361,884</b>	<b>103,169</b>	<b>416,914</b>	<b>114,400</b>
<b>% Change kg CO2e on baseline (2013/14)</b>	<b>-25.9%</b>							
<b>% Change kg CO2e on previous year (2014/15)</b>	<b>-2.8%</b>							



2016/17 Council's CO2e from business travel has reduced by 25.9% on 2013/14.

Size of car	2016-17		2015-16		2014-15		2013-14	
	Miles	Total kg CO2e	Miles	Total kg CO2e	Miles	Total kg CO2e	Miles	Total kg CO2e
Small petrol car, up to 1.4 litre engine	20,456	6,308	17,957	5,537	62,961	19,218	68,399	27,392
Medium petrol car, from 1.4 - 2.0 litres	23,744	9,154	59,992	23,127	140,179	53,778	141,906	56,165
Large petrol cars, above 2.0 litres	1,929	1,094	757	429	14,702	8,229	23,849	16,974
Average petrol car								
<b>Total for petrol cars</b>	<b>46,129</b>	<b>16,556</b>	<b>78,706</b>	<b>29,094</b>	<b>217,842</b>	<b>81,224</b>	<b>234,154</b>	<b>100,531</b>
Small diesel car, up to 1.7 litre or under	9,129	2,599	15,018	4,276	8,545	2,402	355	1,300
Medium diesel car, from 1.7 to 2.0 litre	11,039	3,801	39,156	13,481	31,583	10,855	28,123	8,469
Large diesel car, over 2.0 litre	3,290	1,435	9,221	4,023	7,236	3,191	7,797	3,509
Average diesel car								
<b>Total for diesel cars</b>	<b>23,458</b>	<b>7,835</b>	<b>63,395</b>	<b>21,780</b>	<b>47,364</b>	<b>16,448</b>	<b>36,275</b>	<b>13,279</b>
Average car (unknown fuel)	156,326	56,499	89,770	32,445	44	16		
<b>Total for All Cars</b>	<b>225,913</b>	<b>80,890</b>	<b>231,871</b>	<b>83,319</b>	<b>265,250</b>	<b>97,688</b>	<b>270,429</b>	<b>113,810</b>