

**Energy Consumption and Emissions Apportioned to Council Responsibility**  
(excl. tenants within TBC Offices)

Electricity	EG	T&D	WTT EG	WTT T&D	Total
kg CO2e					
2019	0.2556	0.0217	0.03565	0.00303	0.31598
Scope 3 combined CF					0.06038

Natural Gas	Carbon Factor	WTT	Total
kg CO2e			
2019	0.18385	0.02391	0.2078

Water	Supply	Treatment	Total
kg CO2e/M3			
2019	0.344	0.708	1.052

Council Offices	Annual Consumption (2019)		CO <sub>2</sub> Emissions		Annual Cost (ex VAT)		Comments
Utility	Unit	%	Tonnes	%	£	%	
Electricity (kWh)	260,193	50	82.22	59	41,248	77	Consumption calculated based on combination of known submeter data for some tenants & internal area over for tenants without submeters to estimate TBC energy use
Gas (kWh)	258,537	50	53.71	39	6,900	13	
Water (m3)	2,763	N/A	2.91	2	5,513	10	
<b>Totals</b>	<b>518,730</b>	<b>100</b>	<b>138.84</b>	<b>100</b>	<b>53,661</b>	<b>100</b>	

HAT Shop - TIC	Annual Consumption		CO <sub>2</sub> Emissions		Annual Cost (ex VAT)		Comments
Utility	Unit	%	Tonnes	%	£	%	
Electricity (kWh)	7,940	40	2.51	50	1,191	53	Unit rate costs have not been provided, therefore assumed unit rates of £0.15/kWh Electricity & £0.045 Gas applied
Gas (kWh)	11,794	60	2.45	49	531	24	
Water (m3)	22	N/A	0.02	0.46	523	23	
<b>Totals</b>	<b>19,734</b>	<b>100</b>	<b>4.98</b>	<b>100</b>	<b>2,245</b>	<b>100</b>	

Leisure Centre	Annual Consumption		CO <sub>2</sub> Emissions		Annual Cost (ex VAT)		Comments
Utility	Unit	%	Tonnes	%	£	%	
Electricity (kWh)	406,630	20%	128.49	27%	52,049	48%	Full data provided. Gas Emissions calculated based on only main gas import meter, assuming CHP plant is supplied from this (1,632,377kWh) data covering all of 2019
Gas (kWh)	1,632,377	80%	339.14	72%	37,218	34%	
Water (m3)	4,026	N/A	4.24	1%	19,000	18%	
<b>Totals</b>	<b>2,043,033</b>	<b>100%</b>	<b>471.86</b>	<b>100%</b>	<b>108,267</b>	<b>100%</b>	

Sports Pavilion	Annual Consumption		CO <sub>2</sub> Emissions		Annual Cost (ex VAT)		Comments
Utility	Unit	%	Tonnes	%	£	%	
Electricity (kWh)			0				Opening meter reading provided as: Water 1007, Electric 22172, Gas 10541.73, however no date provided. Requires more data to incorporate
Gas (kWh)			0				
Water (m3)		N/A	0				
<b>Totals</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	

Roses Theatre	Annual Consumption		CO <sub>2</sub> Emissions		Annual Cost (ex VAT)		Comments
Utility	Unit	%	Tonnes	%	£	%	
Electricity (kWh)	11,969	5%	3.78	7%	1,795	20%	No Water data provided, and costs for electricity and gas have been assumed at £0.15/kWh for Electricity and £0.03/kWh for Gas as no billing data provided. Data provided only as a total for the year
Gas (kWh)	233,897	95%	48.59	93%	7,017	80%	
Water (m3)	Unknown		Unknown		Unknown		
<b>Totals</b>	<b>245,866</b>	<b>100%</b>	<b>52.38</b>	<b>100%</b>	<b>8,812</b>	<b>100%</b>	

Cemetery	Annual Consumption		CO <sub>2</sub> Emissions		Annual Cost (ex VAT)		Comments
Utility	Unit	%	Tonnes	%	£	%	
Electricity (kWh)	910	100%	0.29	85%	137	53%	Assumed unit rate for Electricity as £0.15/kWh
Gas (kWh)	0	0%	0	0%	0	0%	
Water (m3)	47	0%	0.05	5%	123	47%	
<b>Totals</b>	<b>910</b>	<b>100%</b>	<b>0.34</b>	<b>90%</b>	<b>260</b>	<b>100%</b>	

5 x Domestic	Annual Consumption		CO <sub>2</sub> Emissions		Annual Cost (ex VAT)		Comments	Estimated Annual Savings			Remaining emissions		
Utility	Unit	%	Tonnes	%	£	%		kWh	CO2e	£	2019	2030	
Electricity (kWh)	38,810	35%	12.26	45%	5,822	64%	No consumption data provided. 4 of 5 properties has Energy Performance Certificates (3 over 10 years old). Consumption based on EPC data and split across electricity & gas based on 2017 typical domestic energy consumption data from OFGEM. Costs assumed at typical unit rates of £0.15 Electricity & £0.045 Gas.						
Gas (kWh)	71,428	65%	14.84	55%	3,214	36%		Electricity	6,023.00	1.90	£903	10.36	3.18
Water (m3)	Unknown		Unknown		Unknown			Gas	22,657.00	4.71	£1,020	10.13	10.13
<b>Totals</b>	<b>110,238</b>	<b>100%</b>	<b>27.10</b>	<b>100%</b>	<b>9,036</b>	<b>100%</b>		<b>Total</b>	<b>28,680.00</b>	<b>6.61</b>	<b>£1,923</b>	<b>20.49</b>	<b>13.31</b>

Typical Domestic consumption of Gas (2017) is 12,000kWh and 3,100kWh Elec (where not used for heating purposes) - [https://www.ofgem.gov.uk/system/files/docs/2017/08/tcvs\\_2017\\_open\\_letter.pdf](https://www.ofgem.gov.uk/system/files/docs/2017/08/tcvs_2017_open_letter.pdf) (Page 6). Therefore % split of 79% Gas & 21% Elec applied to EPC data, and OFgem average applied where consumption is unknown. This ratio has been applied to the CO2/kWh and cost savings identified from the EPCs  
Assumed unit rates of £0.15/kWh Elec & £0.045/kWh Gas. No water data provided  
Savings from EPC's taken, where available, for the one property without one, savings suggested are an average of the savings identified from the EPC's of the other 4 properties.  
Total estimated savings from 3 properties = 21,510kWh. This has been extrapolated to 28,680kWh to include Well Close (that had no EPC). Allocating 79% to Gas/Heating indicates 22,657 savings possible from improved controls, heating systems and insulation