

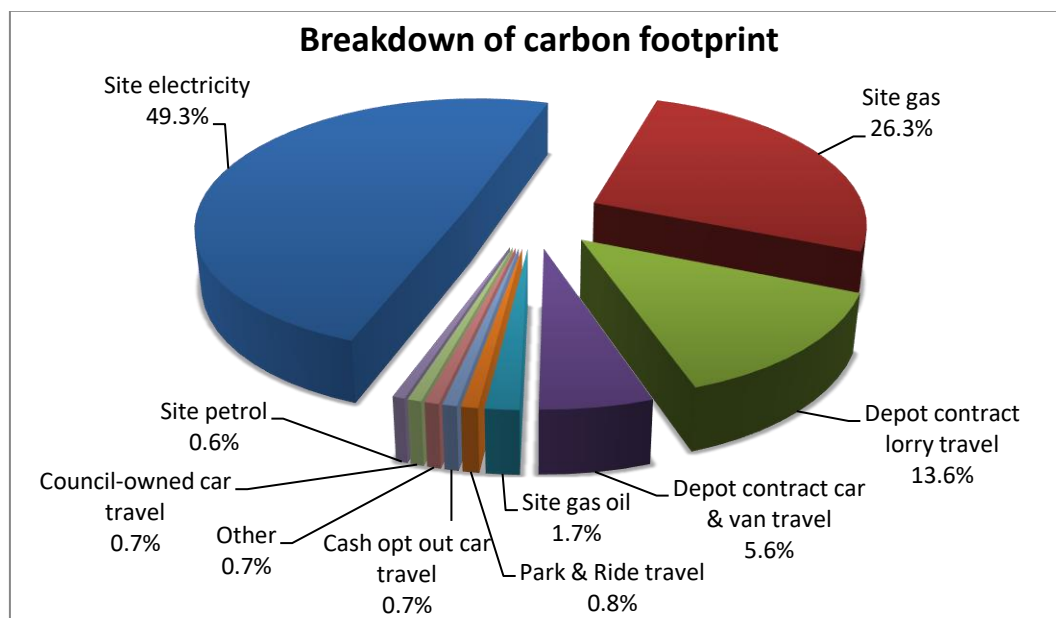


Carbon Footprint Report for Winchester City Council

Assessment Period: 1st April 2015 – 31st March 2016

Executive Summary

Carbon Footprint Ltd has assessed Winchester City Council’s greenhouse gas (GHG) emissions from 1st April 2015 to 31st March 2016, based on a dataset provided by the organisation. The chart below shows the sources of emissions, with electricity consumption accounting for 49.3% of the total emissions.



The table below demonstrates historical emissions compared to this year’s results showing:

- A decrease in absolute emissions by 7.6% compared to the previous year (2014-15), and 14.8% compared to the baseline year (2009-10).
- A decrease in emissions per employee by 3.8% since the previous year.
- A decrease in emissions per capita by 8.0% compared to the previous year, and by 18.6% compared to the baseline year.

	2009-2010	2014-2015	2015-2016	% change from base year (2009/10)	% change from previous year
Total tonnes of CO₂e	5,388.70	4,971.06	4,593.44	-14.8%	-7.6%
Tonnes of CO₂e per employee	9.45	9.84	9.47	+0.2%	-3.8%
Tonnes of CO₂e per capita	0.047	0.042	0.038	-18.6%	-8.0%

This year Winchester City Council reviewed the scope and boundary of their carbon footprint. They have decided that from this assessment onwards, they will follow the operational control approach and expand the scope to include sheltered housing and communal areas. The base year and previous year were recalculated to include this additional data, and the Council decided to change the base year to 2009/10 (the sheltered housing data for 2008/09 was not as reliable).

The reduction in total GHG emissions is mainly a result of an 11.5% decrease in emissions from electricity consumption. Electricity consumption reduced by 230,000 kWh from the Council’s operational sites (i.e. non-sheltered housing). Notable factors include the closure of Friarsgate car park and implementation of efficiency measures, such as LED lighting at Chesil car park. Another contributing factor was a lower emission factor for electricity this year (to account for a larger proportion of renewable energy in the national grid).

Table of Contents

Executive Summary.....	18
1. Introduction.....	20
2. Appraisal Boundaries and Summary of Data Supplied.....	24
3. Carbon Footprint Results.....	27
4. Comparison and benchmarking.....	34
5. Carbon Footprint Standard.....	37
6. References.....	38
A Annex A - Supplied Data and Emissions Breakdown.....	39

Quality Control

Report issue number:	1.1
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1. Introduction

1.1. Scope of this work

Carbon Footprint Ltd has assessed the greenhouse gas emissions from 1st April 2015 to 31st March 2016, resulting from the energy consumption at Winchester City Council's facilities and its transport activities.

1.2. Winchester City Council Overview



Winchester City Council (henceforth referred to as WCC) is one of 11 district councils in Hampshire. The Council serves a population of approximately 119,000 residents, covering an area of 250 square miles.

Table 1: Company representative

Company representative responsible for this report within Winchester City Council	Paul Cooke
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1.3. What is a carbon footprint?

A carbon footprint is a measure of the impact our activities have on the environment in terms of the amount of greenhouse gases produced, measured in units of carbon dioxide equivalents (CO₂e).

A carbon footprint is made up of two parts, direct and indirect emissions.

1. Direct emissions:

These emissions are produced from two primary sources, the energy use in buildings and travel emissions, which are owned or controlled by the reporting organisation. Direct emissions encompass electricity use, burning oil or gas for heating, and fuel consumption as a result of business travel or distribution. Direct emissions correspond to elements within scopes 1, 2 and 3 of the World Resources Institute GHG Protocol, as indicated in Table 2.

Table 2: Direct emissions sources

Footprint	Activity	Scope
Direct	Electricity, heat or steam generated onsite	1
	Natural gas, gas oil, LPG or Coal use attributable to company owned facilities	1
	Company owned vehicle travel	1
	Production of any of the 6 GHG's (CO ₂ , CH ₄ , N ₂ O, HFC's, PFC's and SF ₆)	1
	Consumption of purchased electricity, heat steam and cooling	2
	Employee business travel (using transport not owned by the company)	3

2. Indirect emissions:

Indirect emissions result from a company's upstream and downstream activities. These are typically from outsourced/contract manufacturing, and products and services offered by an organisation. Indirect emissions correspond to scope 3 of the World Resources Institute GHG Protocol excluding employee business travel as indicated in Table 3.

Table 3: Indirect emissions sources

Footprint	Activity	Scope
Indirect	Employee commuting	3
	Transportation of an organisation's products, materials or waste by another organisation	3
	Outsourced activities, contract manufacturing and franchises	3
	GHG emissions from waste generated by the organisation but managed by another organisation	3
	GHG emissions from the use and end of life phases of the organisation's products and services	3
	GHG emissions arising from the production and distribution of energy products, other than electricity, steam and heat, consumed by the organisation	3
	GHG emissions from the production of purchased raw or primary materials	3
	GHG emissions arising from the transmission and distribution of purchased electricity	3

For businesses, the assessment focuses on direct emissions, as these lie under the control of the organisation.

We ask companies to recognise that there is an indirect emissions footprint and select suppliers based on their environmental credentials, as well as price and performance.

1.4. How is the carbon footprint calculated?

The carbon footprint appraisal is derived from a combination of client data collection and data computation by Carbon Footprint Ltd's analysts.

Carbon Footprint Ltd analysts have calculated Winchester City Council's footprint based on the 2015 metrics (version 2.0) developed by the UK Department for Environment, Food and Rural Affairs (Defra) and the Department of Energy and Climate Change (DECC) and have prepared a summary for Winchester City Council included in this report. These metrics use GHG activity data multiplied by GHG emission factors. Carbon Footprint Ltd has selected this preferred method of calculation as a government recognised approach and uses data which is realistically available from the client, particularly when direct monitoring is either unavailable or prohibitively expensive.

Carbon Footprint Ltd confirms that the methodology used to quantify the carbon footprint meets the following principles:

- a) The subject and its boundaries have been clearly identified and documented.
- b) The carbon footprint has been based on primary activity data unless the entity could not demonstrate that it was not practicable to do so, in which case an authoritative source of secondary data relevant to the subject was used.
- c) The methodology employed minimised uncertainty and yielded accurate, consistent and reproducible results.
- d) Emission factors used are germane to the activity concerned and current at the time of quantification.
- e) Conversion of non-CO₂ greenhouse gases to CO₂e has been based upon the 100 year Global Warming Potential figures published by the IPCC or national (Government) publication.
- f) Carbon footprint calculations have been made exclusive of any purchases of carbon offsets.
- g) All carbon footprints have been expressed as an absolute amount in tCO₂e.

1.5. Why is it important?

Over the past two decades the effect of climate change has become more marked. Considerable evidence exists that climate change has been exacerbated by human activity. Changes in our post-industrial lifestyles have altered the chemical composition of the atmosphere, generating a build-up of greenhouse gases – primarily carbon dioxide, methane, and nitrous oxide levels.

The consequences of inaction will be disastrous. Rising global temperatures will cause sea levels to rise and local climate conditions to be altered, affecting forests, crop yields, and water supplies. It will also affect human health, accelerate species extinction, and disrupt many types of ecosystem. Deserts may expand and some of our countryside may be permanently altered.

For this reason it is vital that all individuals, businesses, organisations and governments work towards the common goal of reduced carbon emissions. The carbon footprint assessment will enable your business to:

- Report on greenhouse gas (GHG) emissions
- Set targets to reduce emissions
- Make supply chain selection based on environmental factors
- Achieve cost savings through managing resources, energy saving and implementing good environmental practice
- Generate great PR through communicating your environmental successes
- Improve reputation with customers and potential customers
- Broaden market opportunities by differentiating your products and brands
- Raise staff morale and attract high-calibre employees
- Attract ethical investors
- Be prepared for future legislative changes

1.6. BS ISO 14064-1:2006

This GHG report has been prepared in accordance with Part 1 of BS ISO 14064: 2006. The GHG inventory, report, or assertion has not been verified.

1.7. Greenhouse Gas Protocol Corporate Standard

This GHG calculation and report has been prepared in accordance with The Greenhouse Gas Protocol Corporate Standard. The GHG inventory, report, or assertion has not been verified.

1.8. Abbreviations

A/C	Air Conditioning
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
DECC	Department of Energy and Climate Change
Defra	Department for Environment, Food and Rural Affairs
EU	European Union
GHG	Greenhouse Gas
HGV	Heavy Goods Vehicle
IPCC	Intergovernmental Panel on Climate Change
ISO	International Standards Organisation
km	Kilometres
kWh	Kilowatt Hours
PR	Public Relations
UN	United Nations
WCC	Winchester City Council

2. Appraisal Boundaries and Summary of Data Supplied

A summary of the information submitted by WCC and the boundaries set for the calculation are detailed below.

2.1. Organisational boundaries

WCC has decided to change the control approach it uses to consolidate its GHG emissions to 'operational control'. The Council believes this approach best suits their activities and GHG reporting requirements. The GHG Protocol defines operational control as having the ability and authority to introduce and implement operating policies at the operation.

Managed services, such as River Park Leisure Centre and Meadowside Leisure Centre, will now be reported in Scope 3 (WCC can influence, rather than control, the operations as the management of the facilities is contracted out). The Council's total scope has also been expanded this year to include the sheltered housing and communal areas of which WCC has operational control over. These properties are managed by the Housing Services department.

2.2. Operational boundaries

GHG Emissions and removals associated with WCC's operations:

Figure 1: Assessment boundary

Scope 1 Direct Emissions	Scope 2 Energy Indirect	Scope 3 Other Indirect
<u>Fuel combustion</u> Natural gas, gas oil, petrol	<u>Consumption of purchased electricity, heat steam and cooling</u> Electricity	<u>Purchased materials and fuels</u> Water (for selected sites)
<u>Owned Transport</u> Council-owned car & van travel		<u>Transmission and distribution of energy</u> Electricity
<u>Process emissions</u> None		<u>Leased assets, outsourcing and franchising</u> Contractor emissions - van and lorry travel, Park & Ride, leisure centres
<u>Fugitive emissions</u> Refrigerants		<u>Transport related activities</u> Business travel (rail, taxi etc.), grey fleet & cash opt out car travel
		<u>Sold goods and services</u> None
		<u>Waste Disposal</u> Residual & Recyclable

Key:

Within the assessment boundary	Outside of assessment boundary
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The indirect GHG sources that are outside the assessment boundary have been excluded from quantification because quantification of their contribution to the GHG emissions is not technically feasible or cost effective.

2.3. Biomass

There are no CO₂ emissions from the combustion of biomass to be considered within this report.

2.4. Procurement

Procurement has not been accounted for within the scope of the carbon footprint assessment, however the Council does acknowledge it as an important factor to consider in their sustainability programme. The day to day procurement process is down to the individual departments and their specific needs. The awareness of the individuals placing the purchase orders and the cost of postage and packaging from outside the UK are the limiting factors. The Council strives to include a 'green policy' in its strategies and where possible, procurement includes this. For example, joint working in waste and electric car trials. Also, where possible, the specification for large contracts includes a green clause/policy.

2.5. Accuracy of the carbon footprint calculation

The result of a carbon footprint calculation varies in accuracy depending on the data set provided. The more accurate the data supplied, the more accurate the final result which will subsequently allow for better targeting of areas where improvements can be made. An overview of the expected accuracy per element for this assessment is shown in Table 4.

Table 4: Assessment accuracy

Dataset	Source of data and comments	Accuracy	Materiality
Site electricity	Utility bills & meter readings	Excellent	Very High (40% +)
Site gas	Utility bills & meter readings	Excellent	High (20% - <40%)
Depot contract lorry travel	Biffa - fuel & mileage figures provided per vehicle. Landscape Group – annual mileage provided.	Excellent	Medium (5% - <20%)
Depot contract car & van travel	Mileage records.	Excellent	Medium (5% - <20%)
Gas oil	Annual litres of fuel.	Excellent	Low (1% - <5%)
Park & Ride bus service	Contracted mileage (Stagecoach).	Good	Very Low (<1%)
Cash opt out car travel	Register provided by payroll. Annual mileage, fuel type and vehicle size provided.	Excellent	Very Low (<1%)
Council-owned car travel	Mileage records. Annual mileage, fuel type and vehicle size provided.	Excellent	Very Low (<1%)
Site petrol	Annual litres of fuel.	Excellent	Very Low (<1%)

Dataset	Source of data and comments	Accuracy	Materiality
Grey fleet car travel	Register provided by payroll. Annual mileage, fuel type and vehicle size provided.	Excellent	Very Low (<1%)
Refrigeration & A/C	Service records/invoices.	Excellent	Very Low (<1%)
Council-owned van travel	Mileage and fuel records.	Excellent	Very Low (<1%)
Water	Utility bills and meter readings. Wastewater was estimated assuming 95% of the water supplied is returned to the sewer (same percentage Southern Water uses for billing).	Good	Very Low (<1%)
Rail travel	Journey details from expense claims.	Excellent	Very Low (<1%)
Flights	Journey details from expense claims.	Excellent	Very Low (<1%)
Taxi Travel	Journey details from expense claims.	Excellent	Very Low (<1%)

Materiality is determined by the percentage contribution of each element to the overall footprint. Data has been derived from utility bills, expense claims and internal records.

Most of the data accuracy is excellent, apart from the Park and Ride bus service and water (rated 'good').

The Park and Ride bus service is contracted out to Stagecoach. The annual mileage has been estimated based on the routes taken and the number of services running over the year. Data accuracy could be improved by recording annual fuel consumption of each bus.

Water data has only been provided for four sites and these do not include any of the public conveniences or leisure centres. Therefore, further improvements still need to be made with regard to recording water consumption.

2.6. Data provided for the carbon footprint appraisal

The data provided by WCC for the appraisal is presented in Annex A.

2.7. Greenhouse gas removals

Within the calculation of WCC's carbon footprint, there are no business processes resulting in the reduction of greenhouse gases from the atmosphere to be deducted from the calculation.

3. Carbon Footprint Results

3.1. Summary of results

The total carbon footprint for WCC for the period ending 31st March 2016 was 4,593.44 tCO₂e.

Table 5 provides a summary of results for WCC's carbon footprint calculation by scope and source activity. As the management of WCC's two leisure centres is contracted out, the associated energy consumption is recorded as scope 3 emissions.

Table 5: Results of WCC's carbon footprint assessment by scope, business unit and source activity

Scope	Activity	Tonnes CO ₂ e
Scope 1	Site gas consumption	515.66
	Site gas oil	76.81
	Council-owned car travel	31.52
	Site petrol	28.29
	Refrigeration & A/C	6.39
	Council-owned van travel	4.71
Scope 1 Sub Total		663.38
Scope 2	Electricity generation	1,629.79
Scope 2 Sub total		1,629.79
Scope 3	Leisure centres (electricity & gas)	1,192.45
	Depot contract lorry travel	625.55
	Depot contract car & van travel	255.63
	Electricity transmission & distribution ¹	134.56
	Business car travel ²	46.13
	Park & Ride bus service	38.09
	Water (and wastewater)	3.94
	Business rail travel	3.66
	Business flights	0.16
Business taxi travel	0.10	
Scope 3 Sub Total		2,300.28
Total tonnes of CO₂e		4,593.44
Tonnes of CO₂e per employee		9.47
Tonnes of CO₂e per capita		0.038

The following charts (Figures 2 and 3) show the breakdown of the total GHG emissions produced by WCC. It can be seen that 49.3% of the total emissions is produced as a result of electricity consumption. The other two significant factors are gas consumption and depot contract lorry travel, contributing to 26.3% and 13.6% of the total emissions respectively. (The depot contract travel relates to travel that Biffa and the Landscape Group undertake for WCC-related work).

¹ For properties WCC have operational control over (i.e. does not include the leisure centres).

² Includes both cash opt out car travel and grey fleet car travel.

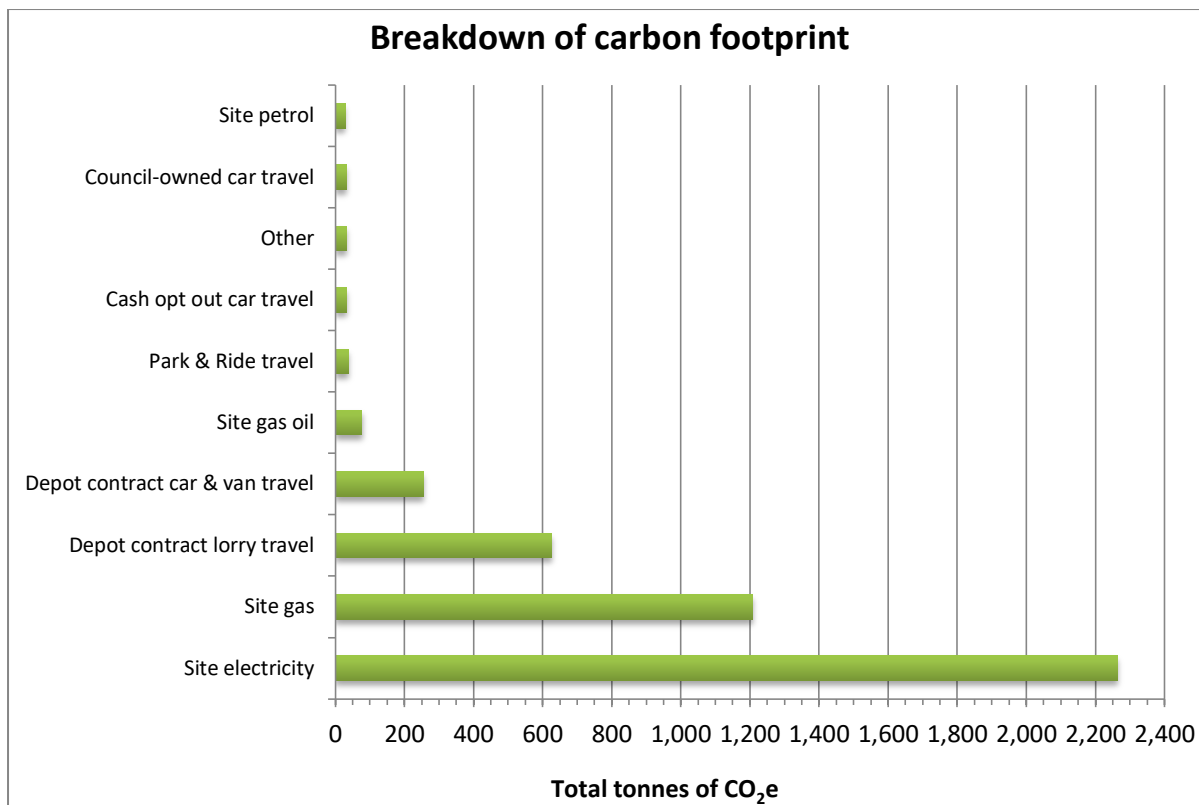


Figure 2: Contribution in tonnes of CO₂e of each element of WCC's carbon footprint ^{3 4}

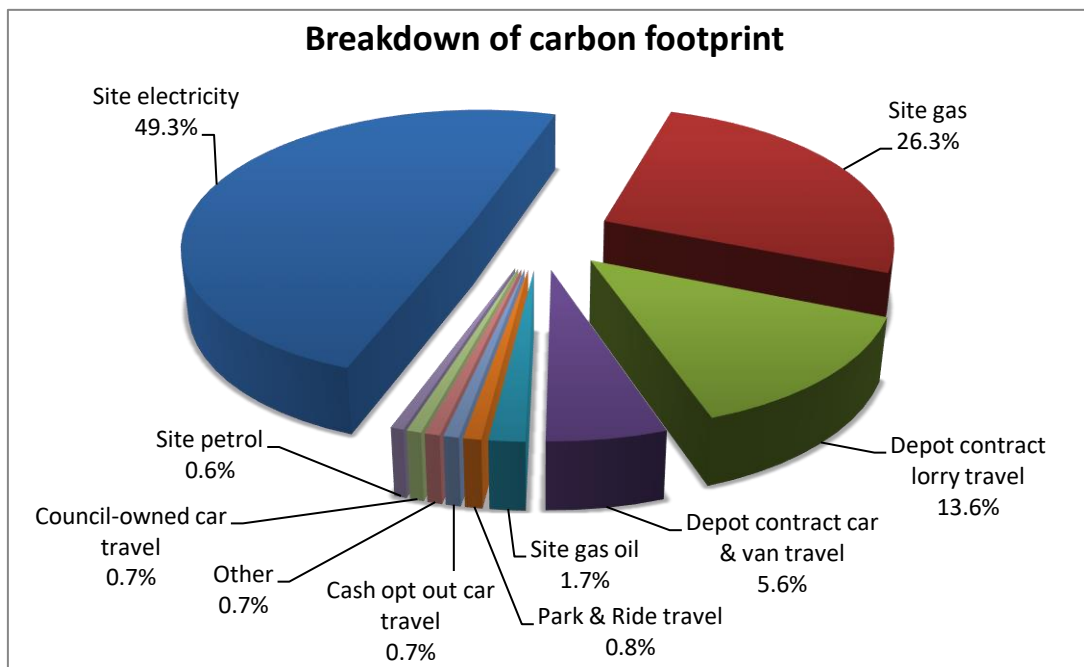


Figure 3: Percentage contribution of each element of WCC's carbon footprint

³ 'Other' includes: council-owned van travel, grey fleet travel, refrigeration & A/C, rail & taxi travel, flights and water.

⁴ Gas and electricity include the leisure centres' emissions (scope 3).

3.2. Emissions from energy usage at site facilities

Figure 4 shows the distribution of site GHG emissions (from electricity and gas usage) across WCC's assets. 'Other council assets' account for the majority of emissions (42.1%) – this encompasses the street lighting and over 50 properties (e.g. the Guildhall and city offices). However, combined, the two leisure centres (River Park and Meadowside) account for almost as many emissions. It would therefore be more effective of time and resources to focus on how to make the leisure centres more efficient and reduce the energy demand there.

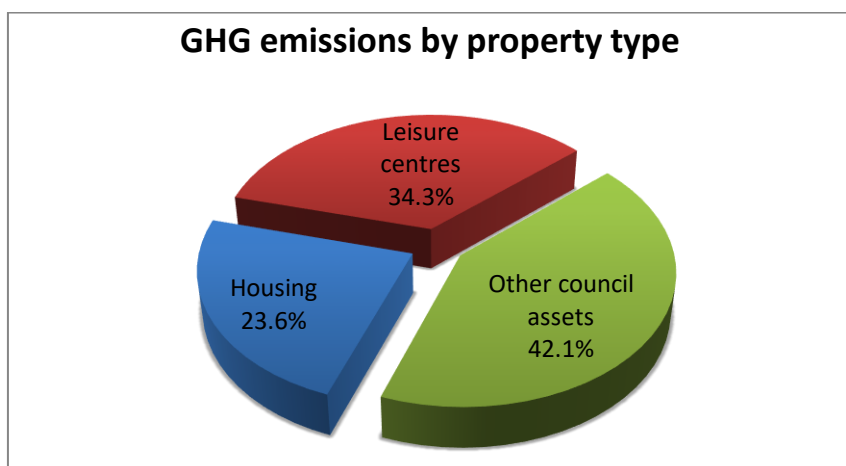


Figure 4: Breakdown of site CO₂e emissions by property type

From analysing the annual energy consumption of the Council's properties (excluding sheltered housing), it can be seen that River Park Leisure Centre is the highest energy consuming site and the Brooks car park is the second highest (Table 6).

Almost 60% of River Park Leisure Centre's energy consumption is from gas use, which is significantly higher than other properties (Figure 5). This is because of swimming pool heating, specific heating requirements of fitness rooms, longer opening hours and higher occupancy rates. The Brooks car park has no heating requirements; electricity is used for lighting the car park and stairwells.

Table 6: CO₂e emissions as a result of site energy consumption for the 10 highest energy consuming sites (excluding sheltered housing)⁵

Site	Electricity (tCO ₂ e)	Natural Gas (tCO ₂ e)	Total tCO ₂ e
River Park Leisure Centre	455.54	670.42	1,125.96
Car Park - Brooks	320.63	n/a	320.63
Guildhall	204.94	41.57	246.51
City Offices	127.83	31.19	159.02
Car Park - Tower Street	129.83	n/a	129.83
Kings Court	98.41	8.13	106.54
Car Park Chesil	82.45	n/a	82.45
Meadowside Leisure Centre	44.48	22.02	66.49
Bar End Depot	20.89	12.83	33.72
Street Lighting	31.89	0.89	32.78
Total	1,516.87	787.05	2,303.92

⁵ Top 10 emitters shown – see Annex for complete breakdown of energy consumption for all sites.

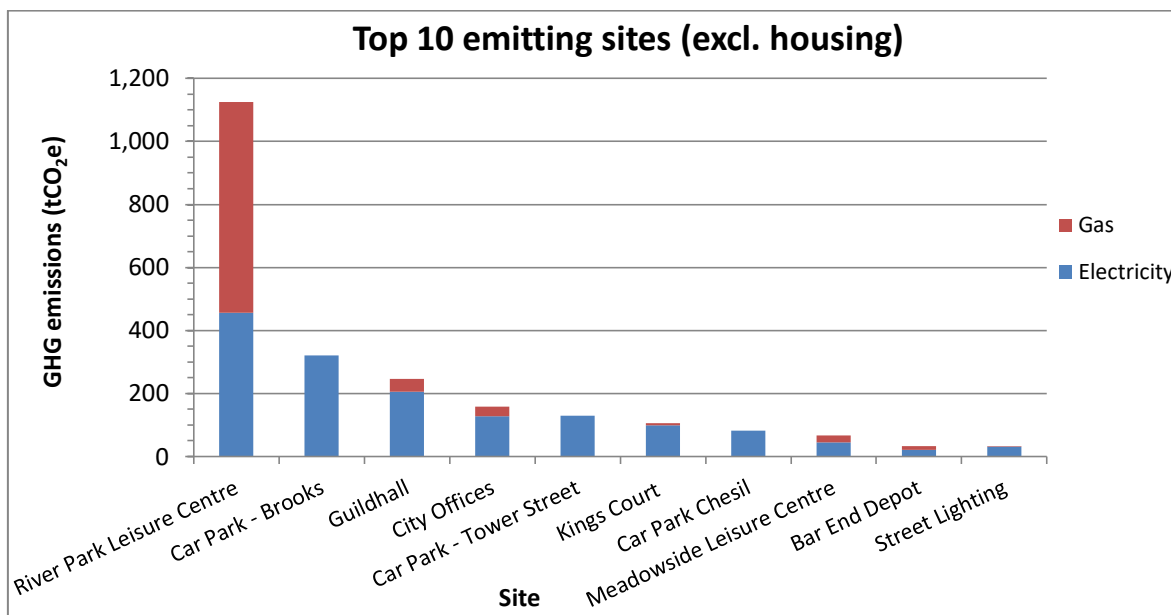


Figure 5: CO₂e emissions per site and per energy type for the top 10 emitting sites (excl. sheltered housing)

When comparing the energy consumption of the top four office-type buildings (occupied by Council staff), it was found that the Guildhall produces the most emissions per employee, whereas the City Offices produces the lowest (Figure 6 and Table 7). This is likely due to different operating hours, as well as different activities that occur on-site (e.g. the Guildhall has function rooms and a cafe).

Table 7: CO₂e emissions from site energy consumption on a per employee basis

Site	No. of employees	Total tCO ₂ e	tCO ₂ e per employee
Guildhall	44	246.51	5.60
City Offices	314	159.02	0.51
Kings Court	105	106.54	1.01
Hyde Lodge	10	14.28	1.43
Total/Average (for tCO₂e per employee)	473	526.34	1.11

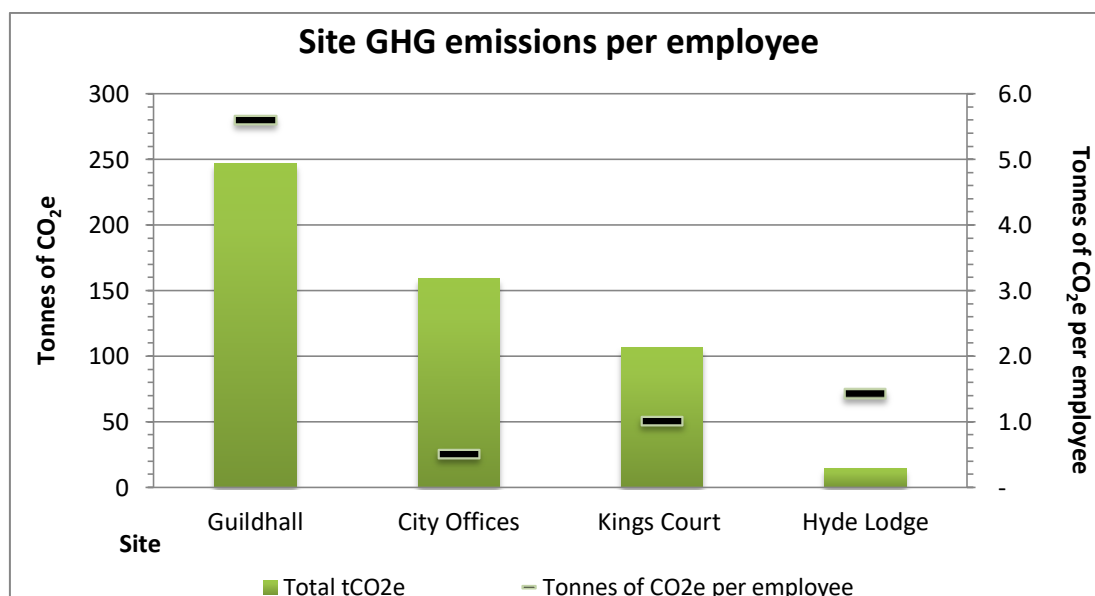


Figure 6: CO₂e emissions on a per site and employee basis

In terms of the energy consumption for WCC's sheltered housing schemes and communal areas, Normandy Court was the site producing the highest amount of emissions and Makins Court the second highest (Table 8). For both sites the majority of emissions are from gas consumption, which is significantly higher than the other sites (Figure 7). It is recommended that further analysis is undertaken to check that the billing is accurate and identify where any savings can be made.

Table 8: Top 10 emitting sheltered housing sites

Site	Electricity (tCO ₂ e)	Natural Gas (tCO ₂ e)	Total tCO ₂ e
Normandy Court	15.05	95.51	110.55
Makins Court	19.24	77.84	97.08
Whitewings House	37.43	43.14	80.57
Danemark Court	22.85	47.49	70.34
Matilda Place	14.70	35.27	49.97
Victoria House	0.41	41.49	41.90
Eastacre	9.35	23.14	32.49
Richard Moss House	27.26	0.00	27.26
Brittany House	23.56	0.00	23.56
Bartholomew Close	22.91	0.00	22.91
Total	192.75	363.88	556.64

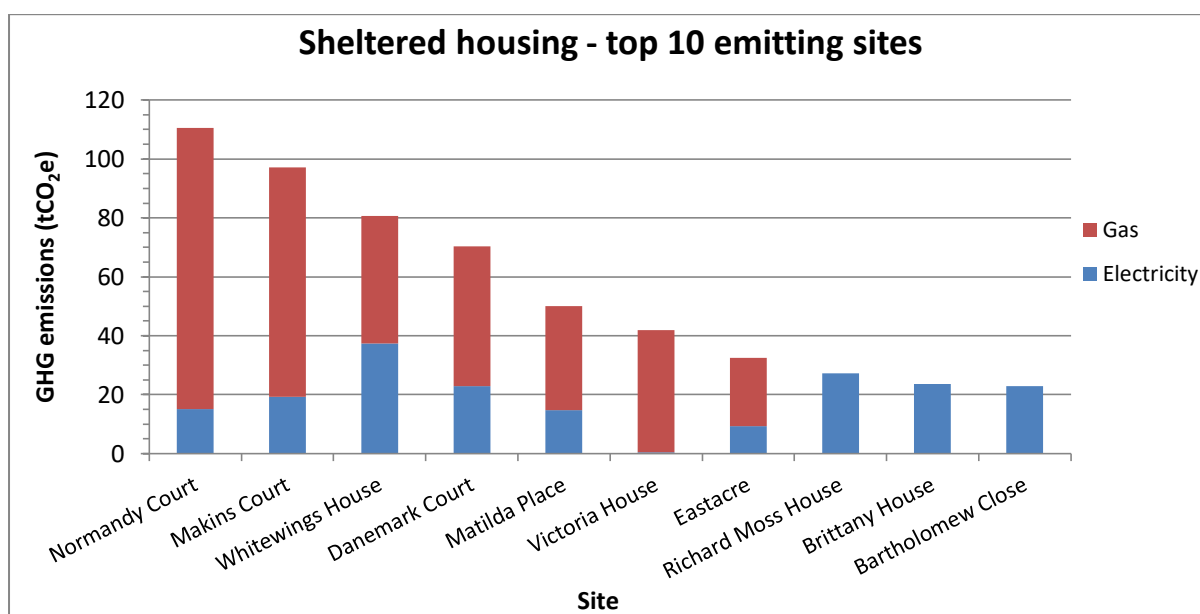


Figure 7: CO₂e emissions per site and energy type for the top 10 emitting sheltered housing sites

The detailed results are given in Annex A.

3.3. Emissions from transport & travel

Figure 8 and Table 9 show the GHG emissions resulting from travel. It can be seen that the largest contributor is depot contract lorry travel, accounting for 62.2% of the total transport emissions. This relates to travel that Biffa and the Landscape Group undertake for WCC-related work. In comparison the amount of CO₂e caused by 'other' travel (council-owned van travel, rail, taxi travel and flights) is very low at less than 1% combined.

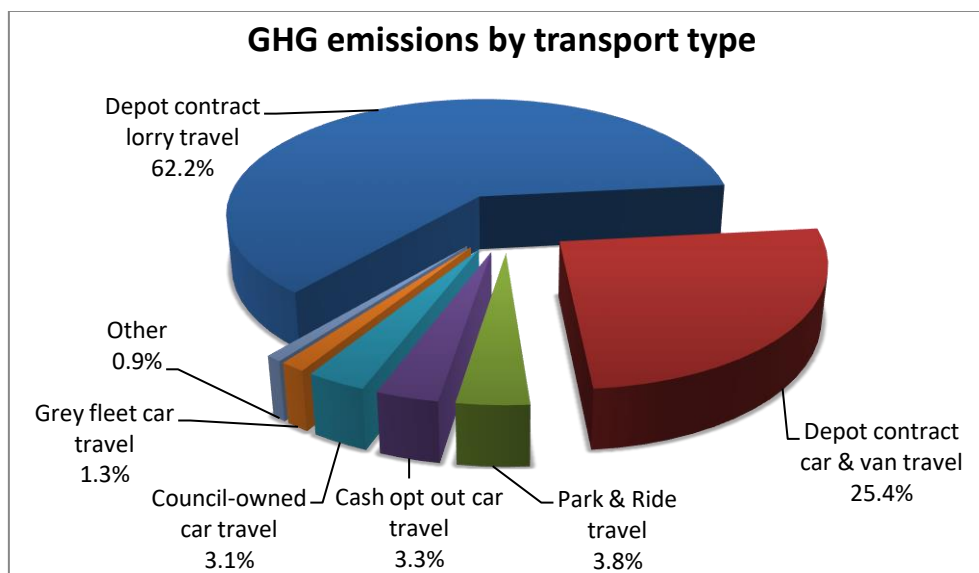


Figure 8: Percentage contribution of each element to transportation emissions

**Other includes; council-owned van travel, rail & taxi travel and flights*

Table 9: CO₂e emissions due to transportation

Type of Travel	Tonnes of CO ₂ e
Depot contract lorry travel	625.55
Depot contract car & van travel	255.63
Park & Ride travel	38.09
Cash opt out car travel	32.82
Council-owned car travel	31.52
Grey fleet car travel	13.31
Other	8.64
Total	1,005.56

The detailed results are given in Annex A.

3.4. Other emissions

WCC use gas oil and petrol to power equipment such as large ride-on lawnmowers, strimmers and blowers etc. The associated emissions are provided in Table 10.

Table 10: CO₂e emissions due to other fuel use

Type of fuel	Tonnes of CO ₂ e
Gas oil	76.81
Petrol	28.29
Total	105.10

The emissions associated with water consumption (supply and wastewater treatment) have been calculated for four of WCC's sites (Table 11). Due to a lack of data monitoring, these currently do not include the public conveniences or the leisure centres, which would be significant users. It is important that improvements are made to the monitoring of water consumption across all of the sites.

Table 11: CO₂e emissions due to water usage

Site	Water supplied (m ³)	Tonnes of CO ₂ e
Guildhall	2,062	2.10
City Offices	1,280	1.30
West Wing	507	0.52
Abbey House	24	0.02
Totals	3,873	3.94

During the data period, the Courtyard Bar was the only site that required a top up of refrigerant gas (Table 12).

Table 12: CO₂e emissions as a result of on-site refrigerant gas replenishment

Location	Amount Refilled (kg)	Refrigerant type	tCO ₂ e
Courtyard Bar	3.6	R407C	6.39

4. Comparison and benchmarking

4.1. Comparison to base year emissions

This is the eighth carbon footprint assessment WCC has carried out. There have been several changes this year in how the carbon footprint has been calculated. As mentioned previously, WCC have chosen to change its control approach to 'operational control'. This means that the leisure centres are now reported in Scope 3. The consumption data for street lighting now only represents the lights that the Council have operational control over, which is significantly lower than previous year data which related to all street lights within WCC's district. Furthermore, WCC have expanded their scope to include the energy associated with sheltered housing and communal areas of which they have operational control. The previous year (2014/15) and the base year (2009/10) were recalculated to incorporate this change. WCC decided to change the base year from 2008/09 to 2009/10 due to the availability and reliability of energy data for sheltered housing and communal areas.

Table 13 and Figure 9 show historical emissions per activity, as well as WCC's total carbon footprint, tonnes of CO₂e per employee and tonnes of CO₂e per capita.

Table 13: WCC's carbon footprint comparison and percentage change

Tonnes of CO ₂ e for footprint year ending in					
Element	2010	2015	2016	% change on baseline year (2010)	% change on previous year
Site electricity	2,795.32	2,557.74	2,264.36	-19.0%	-11.5%
Site gas	1,290.79	1,222.98	1,208.10	-6.4%	-1.2%
Depot contract lorry travel	803.95	876.66	625.55	-22.2%	-28.6%
Depot contract car & van travel	n/a	50.27	255.63	n/a	+408.5%
Site gas oil	Unknown	82.51	76.81	n/a	-6.9%
Park & Ride bus service	13.55	38.31	38.09	+181.2%	-0.6%
Cash opt out car travel	n/a	47.29	32.82	n/a	-30.6%
Other *	445.48	31.68	32.27	-92.8%	+1.9%
Council-owned car travel	39.61	38.19	31.52	-20.4%	-17.5%
Site petrol	Unknown	25.42	28.29	n/a	+11.3%
Total tonnes of CO₂e	5,388.70	4,971.06	4,593.44	-14.8%	-7.6%
Tonnes of CO₂e per employee	9.45	9.84	9.47	+0.2%	-3.8%
Tonnes of CO₂e per capita	0.047	0.042	0.038	-18.6%	-8.0%

* 'Other' includes: grey fleet car, council-owned van, motorbike, rail and taxi travel, flights, water and refrigerants.

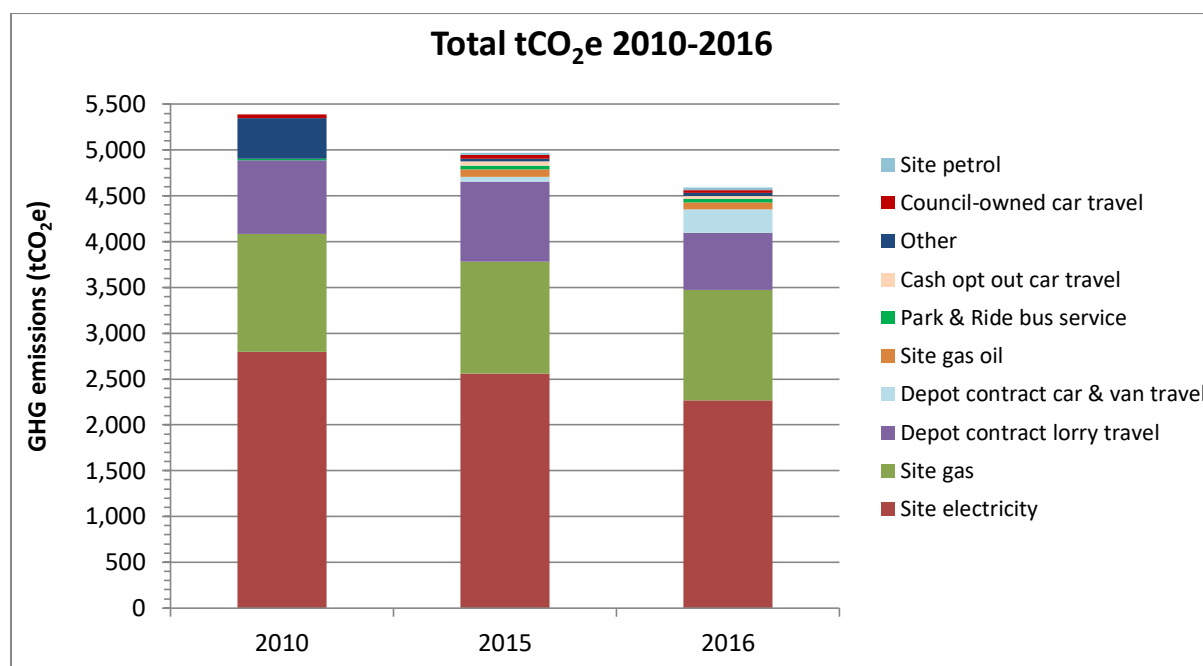


Figure 9: Detailed emissions comparison for the various aspects of WCC's carbon footprint

WCC's carbon footprint has decreased by 7.6% compared to the previous year (Table 13 and Figure 9). This is largely as a result of an 11.5% decrease in emissions from electricity consumption (293 tCO₂e). The main reason behind this significant emissions reduction is a 230,000 kWh decrease in electricity consumption at WCC's operational sites (i.e. non-sheltered housing). Notable sites include:

- Friarsgate car park – was closed completely on 31st March 2015, resulting in a reduction of approximately 60 tCO₂e from the previous year.
- Chesil car park – the lighting upgrade to LED was completed in November 2015. This has resulted in a 21.5% reduction in consumption (45,000 kWh), which approximately equates to 30 tCO₂e.
- City Offices – a 15% reduction in electricity consumption (approximately 34 tCO₂e).
- Meadowside Leisure Centre – installation of LED lighting and PIR sensors in the lower use areas has resulted in an 18.6% reduction in electricity use (approximately 14 tCO₂e).

Another contributing factor to the reduction in electricity emissions is a lower emission factor this year. The emission factor has reduced by 6.5% from the previous year to account for a larger proportion of renewable energy within the national grid.

Gas consumption has also reduced compared to the previous year due to Winter 2015/16 being milder. Heating controls and usage have also been optimised and are being monitored regularly at the City Offices and Guildhall. The gas consumption at Meadowside Leisure Centre, however, increased from the previous year, which the leisure centre manager attributes to higher levels of usage and increased gym membership.

In total, business travel by car (company car, cash opt-out and grey fleet) reduced by approximately 58,000 miles from last year. The electric company cars were used 50.8% more than the previous year (based on miles travelled).

This year the travel data provided by Biffa appears to be more accurate, as annual mileage and fuel used has been provided per vehicle (31 lorries and 4 vans). Biffa continues its endeavours to monitor and reduce idling times, as well as investigate ways to improve their data.

The amount of travel undertaken by the Landscape Group (included within depot contract car & van travel) has significantly increased from the previous year (approximately 150 tCO₂e). When queried, the supplier said that they had to purchase more vehicles in order to fulfil all the jobs for WCC. I recommend that a review should be carried out on the jobs that have been requested and determine where savings can be made (e.g. by looking at the necessity of the activities, whether the frequency is at an effective level, and whether travel is conducted in an efficient way, consolidating journeys).

Overall, when normalised against the population figure for Winchester, the Council’s GHG emissions have shown a reduction from the previous year and the base year (Figure 10).

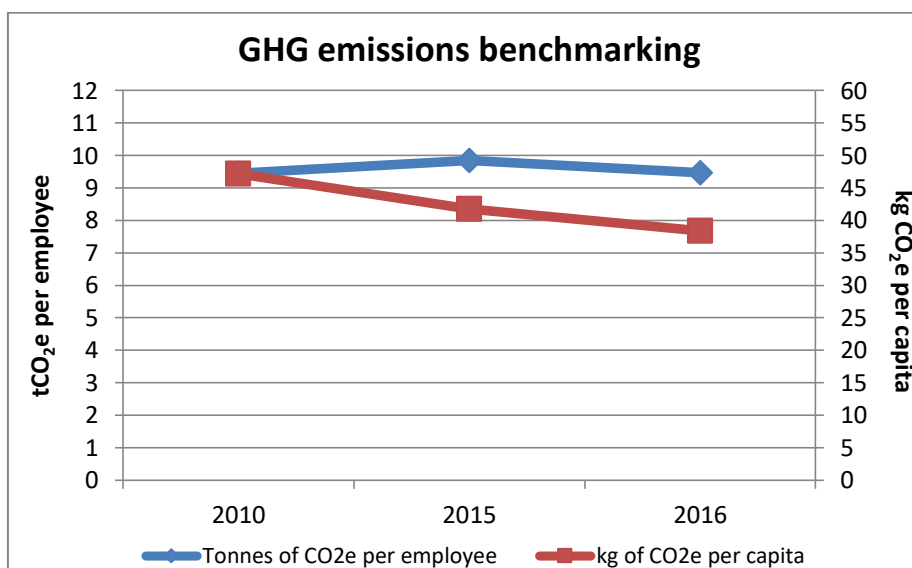


Figure 10: Carbon footprint of Winchester City Council for internal benchmarks

Carbon Footprint Ltd recommends that organisations use the base-year GHG inventory as a benchmark to measure against. When using the base-year GHG inventory as a benchmark, organisations can set realistic reduction targets and measure their progress year on year. This can also provide excellent marketing opportunities, where real figures can demonstrate your commitment towards helping fight climate change.

5. Carbon Footprint Standard

5.1. Brand endorsement

Winchester City Council, in conjunction with Carbon Footprint Ltd, has assessed its carbon footprint and shown a reduction of 14.8% based on its absolute emissions against the baseline year. By achieving this Winchester City Council has qualified to use the Carbon Footprint Standard branding. This can be used on all marketing materials, including web site and customer tender documents, to demonstrate your carbon management achievements.



The Carbon Footprint Standard is recognition of your organisations commitment to carbon management. The text to the right hand side of the logo demonstrates what level you have achieved in line with international best practice.

6. References

1. Defra / DECC's GHG Conversion Factors for Company Reporting (June 2015)
2. Guidelines to Defra's Greenhouse Gas (GHG) Conversion Factors for Company Reporting – annexes (June 2013)
3. The Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard, Revised Edition (March 2004)

A Annex A - Supplied Data and Emissions Breakdown

This annex shows the data that Winchester City Council has supplied Carbon Footprint Ltd for the calculation of its emissions. At the end of each table one or several columns have been added that display the emissions and calculations associated for each item of data provided by Winchester City Council. It should be noted that the latter has been calculated by Carbon Footprint Ltd, and not provided by Winchester City Council.

A.1 Data Used for Scope 1 Emissions Assessment

This section contains the data related to the direct emissions attributable to Winchester City Council. These include the energy usage in Winchester City Council's buildings (excluding purchased electricity, since this corresponds to Scope 2, indirect emissions), any Council-owned vehicle transport and any of the other 6 greenhouse gases produced.

Table 14: Data supplied and emissions breakdown for other fuel use

Type of fuel	Litres	Tonnes of CO ₂ e
Gas oil	26,406	76.81
Petrol	12,890	28.29
Total	39,296	105.10

Table 15: Data supplied and emissions breakdown for refrigerant gas replenishment

Location	Amount Refilled (kg)	Refrigerant type	tCO ₂ e
Courtyard Bar	3.6	R407C	6.39

Table 16: Data supplied and emissions breakdown for energy usage

ID	Site Name	No. of staff	Natural Gas (kWh)	Natural Gas (tCO ₂ e)
WCC	Abbey House	1	49,682	9.16
WCC	City Offices Annex	314	13,066	2.41
WCC	City Offices		156,042	28.78
WCC	Guildhall	44	225,356	41.57
WCC	Kings Court	105	44,094	8.13
WCC	Museum - The Square	2	26,389	4.87
WCC	Hyde Lodge - Basement - Wardens Office	10	4,236	0.78
WCC	Hyde Lodge - Ground - Central Control - New Meter		16,330	3.01
WCC	Hyde Lodge - First/Top - Meeting Rooms & Storage		14,676	2.71
WCC	Bar End Depot	8	69,576	12.83
WCC	Street Lighting		4,806	0.89
Sub Total			624,253	115.14
Housing	Airlie Corner		2,285	0.42
Housing	Barnes House		39,146	7.22
Housing	Chester Road		3,998	0.74
Housing	Chiltern Court CT Block		17,373	3.20
Housing	Danemark Court		257,487	47.49
Housing	Drummond Close		3,228	0.60
Housing	Eastacre		125,476	23.14
Housing	Firmstone Road 27a Common Room		12,544	2.31
Housing	Godson House		13,222	2.44
Housing	Greens Close Communal Supply		4,677	0.86
Housing	Harwood Place		9,931	1.83
Housing	Hyde Gate Common Room		16,964	3.13
Housing	King Harold Court Block 1		24,180	4.46
Housing	Lawn House		10,849	2.00
Housing	Makins Court Landlords Supply 2		422,021	77.84
Housing	Matilda Place		191,193	35.27
Housing	Normandy Court Blk A		115,407	21.29
Housing	Normandy Court Blk B		132,778	24.49
Housing	Normandy Court Blk C		85,376	15.75
Housing	Normandy Court Blk D		110,678	20.41

ID	Site Name	No. of staff	Natural Gas (kWh)	Natural Gas (tCO ₂ e)
Housing	Normandy Court Blk E		73,558	13.57
Housing	Simmonds Court		12,586	2.32
Housing	Spring House		24,231	4.47
Housing	The Valley		3,417	0.63
Housing	Victoria House		224,920	41.49
Housing	Whitewings House		233,907	43.14
Sub Total			2,171,432	400.52
Grand Total			2,795,685	515.66

Table 17: Data supplied and emissions breakdown for Council-owned van travel

ID	Registration Plate	Make	Model	Engine cc	Fuel	Travel Distance (miles)	Annual litres fuel	tCO ₂ e
Neighbourhood wardens	HN12 OSO	Renault	Kangoo Maxi	1500	Diesel (retail)	5,527	599.26	1.55
Neighbourhood wardens	HN12 CVU	Renault	Kangoo Maxi	1500	Diesel (retail)	6,468	671.43	1.73
Neighbourhood wardens	LV15 VRF	Renault	Kangoo Maxi	1500	Diesel (retail)	5,291	551.12	1.42
Total						17,286		4.71

Table 18: Data supplied and emissions breakdown for Council-owned car travel

ID	Registration	Engine	Fuel Type	Annual Distance (Miles)	tCO ₂ e
WCC	LN11 ZJY	1600	Diesel (retail)	251	0.06
WCC	HN11 JFA	1600	Diesel (retail)	36	0.01
WCC	RX14 UTU	1600	Diesel (retail)	258	0.06
WCC	HJ15 BYD	2000	Diesel (retail)	3,227	0.91
WCC	HN14 AWF	1600	Diesel (retail)	153	0.04
WCC	LK14 ZBR	1600	Diesel (retail)	422	0.10
WCC	HV61 OZF	2000	Diesel (retail)	270	0.08
WCC	HJ15 HWL	2000	Diesel (retail)	270	0.08
WCC	LS65 EXF	1600	Diesel (retail)	953	0.22
WCC	HV61 VFY	1200	Diesel (retail)	163	0.04
WCC	HN15 OBZ	1400	Diesel (retail)	740	0.17
WCC	HN62 MMO	1400	Petrol (retail)	337	0.11
WCC	HN65 HKM	1600	Diesel (retail)	119	0.03
WCC	HX63 ZPC	1600	Diesel (retail)	535	0.12
WCC	HJ15 DZW	1598	Diesel (retail)	1,772	0.41

ID	Registration	Engine	Fuel Type	Annual Distance (Miles)	tCO ₂ e
WCC	LS12 MHX	1600	Diesel (retail)	908	0.21
WCC	LS15 XJJ	1600	Diesel (retail)	908	0.21
WCC	EO12 FRU	1000	Petrol (retail)	3,162	0.81
WCC	HN64 LNW	1000	Petrol (retail)	3,162	0.81
WCC	HN64 LHH	900	Petrol (retail)	1,063	0.27
WCC	HN1 1DFL	1500	Diesel (retail)	580	0.13
WCC	HN14 OSR	1500	Diesel (retail)	580	0.13
WCC	HX15 PYU	1500	Petrol (retail)	678	0.22
WCC	HG65 EPL	2000	Diesel (retail)	62	0.02
WCC	HT14 BUH	1600	Diesel (retail)	4,024	0.93
WCC	HF14WWR	1000	Petrol (retail)	1,708	0.44
WCC	AV14 FJX	1600	Diesel (retail)	642	0.15
WCC	HY14 HLM	1400	Petrol (retail)	325	0.10
WCC	DL64 OPW	1500	Diesel (retail)	2,508	0.58
WCC	HY62 PBF	1600	Diesel (retail)	43	0.01
WCC	HV15 ZGX	2200	Diesel (retail)	195	0.07
WCC	DN62 XLC	1500	Diesel (retail)	771	0.18
WCC	LS14 UAA	1600	Diesel (retail)	559	0.13
WCC	HG10 VXW	1600	Diesel (retail)	995	0.23
WCC	HG14 ORS	1400	Petrol (retail)	882	0.28
WCC	RN14 RYR	1600	Diesel (retail)	279	0.06
WCC	RO13 MBF	2000	Diesel (retail)	809	0.23
WCC	HV63 YZG	1600	Diesel (retail)	1,395	0.32
WCC	HN12 EWF	1600	Diesel (retail)	550	0.13
WCC	HY63 FEV	1600	Diesel (retail)	209	0.05
WCC	WU13 TWF	1600	Diesel (retail)	400	0.09
WCC	AY61 WFD	1400	Diesel (retail)	222	0.05
WCC	HY10 UDK	1300	Diesel (retail)	556	0.13
WCC	HJ64 LGY	1400	Diesel (retail)	1,492	0.34
WCC	HY12OVA	1300	Diesel (retail)	470	0.11
WCC	HG11 UJH	2000	Diesel (retail)	181	0.05
WCC	KV63 PXL	1600	Diesel (retail)	2,431	0.56
WCC	VN1 11B	2000	Diesel (retail)	168	0.05
WCC	BF14 KUT	1700	Diesel (retail)	85	0.02
WCC	HG63 OPF	1600	Diesel (retail)	695	0.16
WCC	HJ63 XET	2000	Diesel (retail)	935	0.26

ID	Registration	Engine	Fuel Type	Annual Distance (Miles)	tCO ₂ e
WCC	WR62 GWD	1198	Diesel (retail)	86	0.02
WCC	HY15 NWK	1600	Diesel (retail)	2,795	0.65
WCC	HV12 XOE	2000	Diesel (retail)	415	0.12
WCC	GX65 HHO	2000	Diesel (retail)	415	0.12
WCC	HY61 KLP	1600	Diesel (retail)	569	0.13
WCC	LL64 NGE	1500	Diesel (retail)	1,688	0.39
WCC	K004 VSX	1600	Petrol (retail)	95	0.03
WCC	HN13 LXN	1600	Diesel (retail)	1,218	0.28
WCC	HV62YMP	2000	Diesel (retail)	278	0.08
WCC	RV64 TMU	1600	Diesel (retail)	283	0.07
WCC	WP64 EOX	1500	Diesel (retail)	10,674	2.47
WCC	HJ62 GOE	2000	Diesel (retail)	2,249	0.64
WCC	HJ65 KPX	2000	Diesel (retail)	1,758	0.50
WCC	HG05 CUH	1900	Diesel (retail)	73	0.02
WCC	LT12 VFU	1600	Diesel (retail)	462	0.11
WCC	HK61 EMF	1600	Diesel (retail)	380	0.09
WCC	HV15 FKB	1500	Diesel (retail)	853	0.20
WCC	HN61 YKD	1600	Diesel (retail)	180	0.04
WCC	HN15 JYZ	2000	Diesel (retail)	636	0.18
WCC	HK61 ELU	1200	Diesel (retail)	332	0.08
WCC	HK15 FOV	1400	Diesel (retail)	1,029	0.24
WCC	RJ63 XEX	2000	Diesel (retail)	3,078	0.87
WCC	HG62 JUW	2000	Diesel (retail)	332	0.09
WCC	DY13 WTO	1400	Diesel (retail)	2,243	0.52
WCC	HV59 RVO	1600	Diesel (retail)	140	0.03
WCC	DY64 YNP	1500	Diesel (retail)	1,111	0.26
WCC	RE62 LKN	1600	Diesel (retail)	328	0.08
WCC	HV65 MXP	1400	Diesel (retail)	184	0.04
WCC	HN09 KHB	1900	Diesel (retail)	585	0.17
WCC	RE14 WFX	1600	Diesel (retail)	1,072	0.25
WCC	HV59 SZD	2000	Diesel (retail)	133	0.04
WCC	BU63 XJP	1000	Petrol (retail)	217	0.06
WCC	HG13 LXO	1395	Petrol (retail)	1,505	0.38
WCC	HN15 HZB	1600	Diesel (retail)	409	0.09
WCC	HX63 HCN	1700	Diesel (retail)	3,616	1.02
WCC	HN11 AZJ	1400	Diesel (retail)	149	0.03

ID	Registration	Engine	Fuel Type	Annual Distance (Miles)	tCO ₂ e
WCC	MM15 CHO	1500	Diesel (retail)	309	0.07
WCC	GY09 YXS	1900	Diesel (retail)	201	0.06
WCC	HV13 EVB	1600	Diesel (retail)	3,403	0.79
WCC	HN62 MMO	1400	Petrol (retail)	84	0.03
WCC	HK12 HBL	1600	Diesel (retail)	2,952	0.68
WCC	HN65 OZM	1600	Diesel (retail)	229	0.05
WCC	HV14ZWX	2500	Petrol Hybrid	131	0.04
WCC	HV59 VBZ	1900	Diesel (retail)	328	0.09
WCC	HJ65 HGA	1600	Diesel (retail)	112	0.03
Facilities Van	KV11 CMU	1500	Diesel (retail)	1,135	0.26
Neighbourhood Wardens	YC61 JZH	1500	Diesel (retail)	584	0.12
Parking	DX13 RBU	1500	Diesel (retail)	19,500	4.52
Parking	KP11 AOV	1500	Diesel (retail)	11,150	2.57
Parking	HY65 YUF	1600	Diesel (retail)	2,735	0.90
Parking	WJ11 HTF	n/a	Electric	5,300	n/a
Staff Elec Car	HV64 HRE	n/a	Electric	7,675	n/a
Total				141,532	31.52

A.2 Data Used for Scope 2 Emissions Assessment

This section contains the data associated to the energy indirect emissions attributable to Winchester City Council. The table below shows the purchased electricity, heat or steam usage in Winchester City Council's buildings.

Table 19: Data supplied and emissions breakdown for purchased electricity usage

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
WCC	Abbey Grounds Store		2,051	0.95
WCC	Abbey House	1	7,017	3.24
WCC	Bank House - Common Area		2,282	1.05
WCC	Bowls Pavillion, Gordon Road		186	0.09
WCC	Car Park - Brooks		640,820	296.18
WCC	Car Park Misc - Bar End Park & Ride/St Catherines		34,974	16.16
WCC	Car Park Misc - Barfield Close		19,682	9.10
WCC	Car Park Misc - Cattle Market CCTV		1,779	0.82
WCC	Car Park Misc - Discovery Centre		0	0.00
WCC	Car Park Misc - Gladstone Street		5,635	2.60
WCC	Car Park Misc - Lower Lane Hut Bish Walt		765	0.35
WCC	Car Park Misc - Middle Brook St		7,524	3.48
WCC	Car Park Misc - Middle Brook St Pump		803	0.37
WCC	Car Park Misc - 'Old St Catherines Hut'		4,742	2.19
WCC	Car Park Misc - Tower Street		245,433	113.44
WCC	Car Park - Tower Street - Attendants Room & Public Convenience		14,036	6.49
WCC	Car Park Misc - Worthy Lane Att Hut		0	0.00
WCC	Car Park Chesil m/s Car Park - Day		121,290	56.06
WCC	Car Park Chesil m/s Car Park - Night		43,492	20.10
WCC	Car Park - Friarsgate m/s - Day		1,875	0.87
WCC	Car Park - Friarsgate m/s - Night		813	0.38
WCC	Car Park - Park and Ride South - Otterbourne/Hockley		8,026	3.71
WCC	Cricket Pavillion - Low		4,910	2.27
WCC	Cricket Pavillion - Norm		93	0.04
WCC	City Offices Annex	Included in below figure	14,974	6.92

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
WCC	City Offices	314	240,498	111.16
WCC	Guildhall	44	409,593	189.31
WCC	F2	1	27,924	12.91
WCC	Footbridge Bishops Waltham		1,592	0.74
WCC	Kings Court	105	196,676	90.90
WCC	Magdalen Hill Cemetery Lodge		2,896	1.34
WCC	Market Traders Meter (Brooks)		14,393	6.65
WCC	Market Traders Meter (2)		2,047	0.95
WCC	Museum - The Square	2	13,894	6.42
WCC	Museum - Westgate	0	3,491	1.61
WCC	Museum - Westgate	As above	6,793	3.14
WCC	6 Middlebrook Street		659	0.30
WCC	8 Middle Brook Street/Office Above Bejams/ Car Parks		6,078	2.81
WCC	Public Convenience - Station Road Alresford		4,420	2.04
WCC	Public Convenience - Houchin Street, Bishops Waltham		13,496	6.24
WCC	Public Convenience - Denmead - Kidmore Lane		2,247	1.04
WCC	Public Convenience - Market Street		25,505	11.79
WCC	Public Convenience - Worthy Lane		6,852	3.17
WCC	Public Convenience - Warwick Way, Wickham		6,549	3.03
WCC	Public Convenience - Abbey Grounds Green Box, Ladies & Gents		11,472	5.30
WCC	Public Convenience - Discovery Centre		4,650	2.15
WCC	Showcases		4,296	1.99
WCC	Sports Pavillion Bar End Road 1		0	0.00
WCC	Sports Pavillion 2 Milland Road - Low		2,065	0.95
WCC	Sports Pavillion 2 Milland Road - Norm		4,715	2.18
WCC	SPORTS PAVILLION BAR END.		1,034	0.48
WCC	St Georges Street Lighting - Low		1,624	0.75
WCC	St Georges Street Lighting - Norm		815	0.38
WCC	Weeke Pond		2,725	1.26
WCC	Baring Close		1,208	0.56
WCC	Beech Grove		612	0.28
WCC	Bighton		5,731	2.65
WCC	Woodman Close/Church Farm Cottages		2,618	1.21
WCC	Couch Green		885	0.41

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
WCC	Couch Green, Martyr Worthy		13,668	6.32
WCC	Cricket Close		3,803	1.76
WCC	Hazeldene Gardens		1,166	0.54
WCC	Hilly Close		184	0.09
WCC	Hobbs Close		17,411	8.05
WCC	Hobbs Close Pump House		1,955	0.90
WCC	Kiln Lane		3,652	1.69
WCC	Long Priors		15,726	7.27
WCC	Long Road		13,501	6.24
WCC	North Drive		10,917	5.05
WCC	Northington Road		29,299	13.54
WCC	Old Alresford, Basingstoke Road		322	0.15
WCC	Park Lane		27,009	12.48
WCC	Pound Lane		928	0.43
WCC	Widley Walk, Purbrook		10,081	4.66
WCC	St. Andrews Green		437	0.20
WCC	The Brook		1,402	0.65
WCC	The Brook		2,376	1.10
WCC	The Goodens - Peak		249	0.12
WCC	The Goodens - Off Peak		735	0.34
WCC	The Pastures		247	0.11
WCC	The Pastures		1,227	0.57
WCC	The Pastures		796	0.37
WCC	Trampers Lane, Birch Hill		1,045	0.48
WCC	Trampers Lane, Wine Cross		9,546	4.41
WCC	Woodlane Close		1,099	0.51
WCC	Woodlane Close		7,151	3.31
WCC	Woodlane Close		4,350	2.01
WCC	Granville Place		689	0.32
WCC	Itchen View		3,193	1.48
WCC	Itchen View - Water Treatment Plant		6,269	2.90
WCC	Elm Crescent		6,456	2.98
WCC	Oak Close		6,240	2.88
WCC	Southbrook Place, Rook Lane		6,410	2.96

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
WCC	Railway Cottages, Station Road		5,876	2.72
WCC	Hallway, Hollands Close - Day		963	0.45
WCC	Hallway, Hollands Close - Night		392	0.18
WCC	Hyde Lodge - Basement - Wardens Office	10	6,821	3.15
WCC	Hyde Lodge - Ground - Central Control - New Meter	As above	6,472	2.99
WCC	Hyde Lodge - First/Top - Meeting Rooms & Storage	As above	2,253	1.04
WCC	Basepoint		54,897	25.37
WCC	Bar End Depot	8	41,746	19.29
WCC	Kingswalk, Landlords Supply		23,864	11.03
WCC	Kingswalk, 2nd & 3rd Floor Office		0	0.00
WCC	West Hill Cemetery		1,288	0.60
WCC	Registrars Office		2,872	1.33
WCC	Bishops Waltham Depot - Rear		6	0.00
WCC	Barfield Close - Ex TJ Waste		370	0.17
WCC	Unmetered ticket machines		30,015	13.87
WCC	Unmetered CCTV Bishops Waltham		1,319	0.61
WCC	Unmetered Lighting Bishops Waltham 1		570	0.26
WCC	Unmetered Lighting Bishops Waltham 2		14	0.01
WCC	Ticket Machines Wickham Square		1,771	0.82
WCC	High Street Feeder Pillar 1		589	0.27
WCC	High Street Feeder Pillar 2		3,472	1.60
WCC	High Street Feeder Pillar 3		6,275	2.90
WCC	High Street Feeder Pillar 4		8,323	3.85
WCC	High Street Feeder Pillar 5		2,505	1.16
WCC	Street Lighting		63,737	29.46
Sub Total			2,689,204	1,242.92
Housing	Airlie Corner		1,385	0.64
Housing	Albert Court		17,747	8.20
Housing	Alresford Road 118 - 120 Linkway		3	0.00
Housing	Alresford Road 90 - 92 Linkway		1	0.00
Housing	Ashburton Close 1 - 2		638	0.29
Housing	Ashburton Close 3 - 4		602	0.28
Housing	Ashburton Close 5 - 6		391	0.18
Housing	Barnes House		0	0.00

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
Housing	Blanchard Road 26 - 32 Link Stairway		857	0.40
Housing	Blanchard Road 36 - 40 Link Stairway		868	0.40
Housing	Braxton House, Winnall Manor Road		12,934	5.98
Housing	Brittany House		47,090	21.76
Housing	Charles Close Flats 15 - 20		393	0.18
Housing	Charles Close Flats 21 - 23		441	0.20
Housing	Charles Close Flats 24 - 27		236	0.11
Housing	Charles Close Flats 28 - 33		838	0.39
Housing	Charles Close Flats 34 - 37		326	0.15
Housing	Charles Close Flats 56 - 78		295	0.14
Housing	Charles Close Flats 9 - 14		674	0.31
Housing	Chester Road		5,925	2.74
Housing	Chiltern Court 9 - 16		883	0.41
Housing	Chiltern Court CT Block		1,100	0.51
Housing	Chiltern Court CT Block		2,140	0.99
Housing	Chiltern Court Flats 1 - 8		1,254	0.58
Housing	Colbourne Court		5,375	2.48
Housing	Colson Close		1,071	0.50
Housing	Colson Close Flats 1 - 6		1,299	0.60
Housing	Colson Close Flats 13 - 16		393	0.18
Housing	Colson Close Flats 17 - 20		1,031	0.48
Housing	Colson Close Flats 7 - 12		1,132	0.52
Housing	Craddock House		13,518	6.25
Housing	Cripstead Lane		1,490	0.69
Housing	Crockford House		1,714	0.79
Housing	Dalzell Worthy Road		845	0.39
Housing	Danemark Court		45,670	21.11
Housing	Dennett House		16,629	7.69
Housing	Doctors Lane Alarm System		215	0.10
Housing	Drummond Close		1,738	0.80
Housing	Earle House		14,695	6.79
Housing	Eastacre		1,990	0.92
Housing	Eastacre		1,259	0.58
Housing	Eastacre		14,669	6.78

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
Housing	Eastacre		760	0.35
Housing	Eastgate Street 31-35 Estab Supply		2,175	1.01
Housing	Eastgate Street No 27		4,689	2.17
Housing	Fairdown Close		157	0.07
Housing	Fairdown Close Lids Supply No 6		2	0.00
Housing	Firmstone Road 22 Wardens Common Room		113	0.05
Housing	Firmstone Road 22 Wardens Common Room		186	0.09
Housing	Firmstone Road 27a Common Room		11,199	5.18
Housing	Firmstone Road Flats 105 - 115		537	0.25
Housing	Firmstone Road Flats 117 - 127		477	0.22
Housing	Firmstone Road Flats 129 - 139		759	0.35
Housing	Firmstone Road Flats 141 - 151		538	0.25
Housing	Firmstone Road Flats 153 - 163		669	0.31
Housing	Firmstone Road Flats 31 - 33		626	0.29
Housing	Firmstone Road Flats 69 - 79		516	0.24
Housing	Firmstone Road Flats 81 - 91		529	0.24
Housing	Firmstone Road Flats 93 - 103		824	0.38
Housing	Firmstone Road Staircases		550	0.25
Housing	Firmstone Road Staircases		444	0.21
Housing	Firmstone Road Staircases		254	0.12
Housing	Firmstone Road Staircases		119	0.06
Housing	Firmstone Road Staircases		328	0.15
Housing	Firmstone Road Staircases		373	0.17
Housing	Fleming Place Flats 19-20		420	0.19
Housing	Fleming Place Flats 21 - 22a		522	0.24
Housing	Fleming Place Flats 23-24A		488	0.23
Housing	Fordor Court, 41 St Cross Road		18,418	8.51
Housing	Fraser Road 31-33B		464	0.21
Housing	Fraser Road 35-37B		276	0.13
Housing	Fraser Road 39-41b		463	0.21
Housing	Fraser Road 43 - 45b		295	0.14
Housing	Fraser Road 47-49		228	0.11
Housing	Fraser Road 51-53b		521	0.24
Housing	Fraser Road 55-57b		355	0.16

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
Housing	Fulflood Court		2,251	1.04
Housing	Godson House		25,004	11.56
Housing	Greens Close Communal Supply		2,364	1.09
Housing	Greens Close, Link Stairway 11-17		828	0.38
Housing	Greens Close, Link Stairway 1-7		800	0.37
Housing	Greens Close, Link Stairway 19-25		754	0.35
Housing	Greens Close, Link Stairway 27-33		842	0.39
Housing	Greyfriars Ent 1, Eastgate Street		1,517	0.70
Housing	Greyfriars Ent 2, Eastgate Street		1,980	0.92
Housing	Harwood Place		2,267	1.05
Housing	Harwood Place Block 10a		558	0.26
Housing	Harwood Place Block 10b		989	0.46
Housing	Harwood Place Block 10c		377	0.17
Housing	Harwood Place Block 10d		586	0.27
Housing	Harwood Place Block 10e		324	0.15
Housing	Harwood Place Block 8a		906	0.42
Housing	Harwood Place Block 8b		450	0.21
Housing	Harwood Place Block 9B		834	0.39
Housing	Harwood Place Flats 32-35		378	0.17
Housing	Hyde Gate Common Room		2,447	1.13
Housing	Hyde Gate Flats 11-14		1,097	0.51
Housing	Hyde Gate Flats 15-18		679	0.31
Housing	Hyde Gate Flats 2-3		497	0.23
Housing	Hyde Gate Flats 4-9		706	0.33
Housing	Hyde Gate Floodlighting, King Alfred Place		4,917	2.27
Housing	Hyde Lodge		4,172	1.93
Housing	Hyde Lodge Flats 23-26		8,107	3.75
Housing	Hyde Lodge Flats 3 - 8		2,884	1.33
Housing	Hyde Street, No 69, Landlords Supply		72	0.03
Housing	James Howell Court, Bere Road		3,090	1.43
Housing	King Alfred Place Flats 21- 23		375	0.17
Housing	King Alfred Place Flats 24 - 28		872	0.40
Housing	King Harold Court Block 1		9,059	4.19
Housing	King Harold Court Block 2		451	0.21

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
Housing	King Harold Court Block 3		8,608	3.98
Housing	King Harold Court Block 4		741	0.34
Housing	Lawn House		1,744	0.81
Housing	Lawn House Block 2		1,752	0.81
Housing	Lawn House Block 3		1,894	0.88
Housing	Lawn House Block 4		2,172	1.00
Housing	Lawn House Block 5		1,542	0.71
Housing	Lawn House Block 6		1,782	0.82
Housing	Lawn House Comm Centre		3,015	1.39
Housing	Lent Hill Court		21,907	10.13
Housing	Lisle Court Block A		6,004	2.77
Housing	Lisle Court Block B		679	0.31
Housing	Lower Brook Street 2-23 A		333	0.15
Housing	Makins Court Landlords Supply 2		38,444	17.77
Housing	Matilda Place		29,387	13.58
Housing	Meon House		3,127	1.45
Housing	Mildmay Court Flats 1 - 7		0	0.00
Housing	Mildmay Court Flats 1-6		1,866	0.86
Housing	Mildmay Court Flats 1-6		3,309	1.53
Housing	Mildmay Court Flats 1-6		4,217	1.95
Housing	Mildmay Court Flats 18-26		14,482	6.69
Housing	Milland Road 16-19		1,424	0.66
Housing	Milland Road 17-20		1,175	0.54
Housing	Milland Road 22-25		1,005	0.46
Housing	Milland Road 26-33		1,586	0.73
Housing	Milland Road 34-37		738	0.34
Housing	Milland Road Common Room		3,060	1.41
Housing	Monks Road STR Lighting		362	0.17
Housing	Monks Road STR Lighting		47	0.02
Housing	Normandy Court Blk A		6,086	2.81
Housing	Normandy Court Blk B		4,525	2.09
Housing	Normandy Court Blk C		8,560	3.96
Housing	Normandy Court Blk D		4,491	2.08
Housing	Normandy Court Blk E		6,407	2.96

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
Housing	Orchard Close Block 2 Flats 25-28		596	0.28
Housing	Orchard Close Block 3 Flats 21-24		760	0.35
Housing	Orchard Close Block 4 Flats 17-20		559	0.26
Housing	Orchard Close Block 5 Flats 29-32		682	0.32
Housing	Orchard Close Block 8 Flats 1-4		844	0.39
Housing	Orchard Close Block 8 Flats 5-8		614	0.28
Housing	Parmiter House Wales Street		1,837	0.85
Housing	Paulet Place Landlords Supply		746	0.34
Housing	Penton Place on Milland Road		605	0.28
Housing	Penton Place on Milland Road		1,094	0.51
Housing	Pound Road Block 6 A		416	0.19
Housing	Pound Road Block 6 B Fls 11		419	0.19
Housing	Pound Road Block 7		853	0.39
Housing	Pound Road Block 7 A		412	0.19
Housing	Pound Road Block 7 Flats 41-47		638	0.29
Housing	Pound Road Flats 14 - 20		358	0.17
Housing	Pound Road Flats 2 - 12		323	0.15
Housing	Pound Road Flats 21 - 27		324	0.15
Housing	Pound Road Flats 22 - 28		547	0.25
Housing	Pound Road Flats 30 - 36		573	0.26
Housing	Pound Road Flats 37 - 39		461	0.21
Housing	Pound Road Flats 38 - 44		351	0.16
Housing	Quarry Road Flats 59 - 65		9	0.00
Housing	Ramsay Road Block 11 F		284	0.13
Housing	Richard Moss House		54,480	25.18
Housing	Riverside House		836	0.39
Housing	Riverside House		1,106	0.51
Housing	Riverside House		567	0.26
Housing	Bartholomew Close		45,794	21.17
Housing	Robertson Road Flats 1 - 2a		206	0.10
Housing	Robertson Road Flats 11-12		400	0.18
Housing	Robertson Road Flats 13 - 14a		321	0.15
Housing	Robertson Road Flats 3-4		431	0.20
Housing	Robertson Road Flats 5-6		321	0.15

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
Housing	Robertson Road Flats 7-8		455	0.21
Housing	Robertson Road Flats 9-10		142	0.07
Housing	Simmonds Court		2,372	1.10
Housing	Simmonds Court Flats 5-8		473	0.22
Housing	Simmonds Court Flats 1-4		548	0.25
Housing	Simmonds Court Flats 9-12		1,242	0.57
Housing	Somerville Road 10 - 12a		449	0.21
Housing	Somerville Road 14 - 16a		368	0.17
Housing	Somerville Road 6 - 8a		401	0.19
Housing	Spicers Court Landlords Supply		1,418	0.66
Housing	Spring House		3,950	1.83
Housing	Spring House Close Flats 11-12		519	0.24
Housing	Spring House Close Flats 13-18		997	0.46
Housing	Spring House Close Flats 1-4		602	0.28
Housing	Spring House Close Flats 19-24		820	0.38
Housing	Spring House Close Flats 25-30		608	0.28
Housing	Spring House Close Flats 31-36		1,123	0.52
Housing	Spring House Close Flats 5-10		612	0.28
Housing	St Bedes Court		1,242	0.57
Housing	St James Terrace No 3 Landlords Supply		487	0.23
Housing	St Johns Street No 10 Landlords Supply		2,147	0.99
Housing	Stanmore Library		0	0.00
Housing	Sussex Street 84 - 86		143	0.07
Housing	Sussex Street No 86		41,878	19.36
Housing	Test House Milland Road		2,828	1.31
Housing	The Valley		2,419	1.12
Housing	The Valley, Block 1		547	0.25
Housing	The Valley, Block 2		504	0.23
Housing	The Valley, Block 3		536	0.25
Housing	The Valley, Block 4		569	0.26
Housing	The Valley, Block 5		586	0.27
Housing	The Valley, Block 6		488	0.23
Housing	The Valley, Block 7		582	0.27
Housing	The Valley, Block 8		516	0.24

ID	Site Name	No. of staff	Grid Electricity (kWh)	Electricity Generation (tCO ₂ e)
Housing	The Valley, Block 9		1,004	0.46
Housing	Thurmond Crescent Flats 41 - 46		1,423	0.66
Housing	Thurmond Crescent Flats 47 - 52		802	0.37
Housing	Thurmond Crescent Flats 53 - 58		888	0.41
Housing	Thurmond Crescent Flats 59 - 64		1,087	0.50
Housing	Thurmond Crescent Flats 65 - 70		685	0.32
Housing	Thurmond Crescent Flats 71 - 76		811	0.37
Housing	Trussell Crescent Blk 1		3,359	1.55
Housing	Trussell Crescent Blk 2		3,287	1.52
Housing	Victoria House		13	0.01
Housing	Victoria House		811	0.37
Housing	Wales Street		1,068	0.49
Housing	Water Lane Landlords Supply Block 5		645	0.30
Housing	Whitewings House		74,800	34.57
Housing	Windsor House, Lawn Street		1,843	0.85
Housing	Windsor House, Lawn Street		2,487	1.15
Housing	Windsor House, Lawn Street		1,956	0.90
Housing	Woolford Close Flats 10 - 15		998	0.46
Housing	Woolford Close Flats 16-25		1,533	0.71
Housing	Woolford Close Flats 1-9		1,809	0.84
Housing	Woolford Close Flats 32-37		1,291	0.60
Housing	Woolford Close Flats 38-47		1,053	0.49
Housing	Woolford Close Flats 6-7		1,099	0.51
Sub Total			837,023	386.86
Total		485	3,526,227	1,629.79

A.3 Data Used for Scope 3 Emissions Assessment

The tables below demonstrate the Council's employee business travel (not including staff commuting), any outsourced transport, and emissions from the transmission and distribution of purchased energy.

Table 20: Data supplied and emissions breakdown for depot contract car travel

Contractor	Registration Plate	Make & Model	Engine CC	Fuel Type	Annual Mileage	Annual Litres Fuel	tCO ₂ e
Landscape Group	BK62LVR	Ford Fiesta	1400	Diesel (retail)	5,020	418	1.08
Landscape Group	BD60SVU	AUDI A3	1995	Diesel (retail)	19,500	2,270	5.87
Landscape Group	YP13FXF	Volvo V40	1560	Diesel (retail)	33,285	2,750	7.11
Biffa	VC65 XPN	VW Passat	1600	Diesel (retail)	13,000	2,080	5.37
Total					70,805	7,518	19.43

Table 21: Data supplied and emissions breakdown for depot contract van travel

Contractor	Registration Plate	Make	Model	Engine CC	Fuel	Travel Distance (miles)	Annual litres fuel	tCO ₂ e
Landscape Group	AV60KPP	Ford	Transit single cab tipper	2400	Diesel (retail)	11,869	2,967	7.67
Landscape Group	BF65PBU	Ford	Transit tipper	2200	Diesel (retail)	8,741	2,185	5.65
Landscape Group	BG61YFU	Ford	Transit single cab tipper caged	2400	Diesel (retail)	16,492	4,123	10.65
Landscape Group	BG63KVO	Ford	Transit tipper	2200	Diesel (retail)	12,061	3,015	7.79
Landscape Group	BK61JFX	Ford	Transit single cab tipper	2400	Diesel (retail)	20,251	5,063	13.08
Landscape Group	BK61JHE	Ford	Transit single cab tipper	2400	Diesel (retail)	8,989	2,247	5.81
Landscape Group	BK62VHA	Ford	Transit single cab tipper	2200	Diesel (retail)	13,965	3,491	9.02
Landscape Group	BN61XKW	Ford	Transit single cab tipper	2400	Diesel (retail)	7,942	1,986	5.13
Landscape Group	BP11UUC	Ford	Transit connect	1753	Diesel (retail)	1,457	364	0.94
Landscape Group	BT61HMV	Ford	Ranger single cab XL	2500	Diesel (retail)	8,962	2,241	5.79
Landscape Group	DN63KTJ	Ford	Transit chassis cab	2200	Diesel (retail)	13,583	3,396	8.77
Landscape Group	DX16VXC	Vauxhall	Movano tipper	2300	Diesel (retail)	159	40	0.10
Landscape Group	DX62FSA	Johnstons	Johnstons VT650	4500	Diesel (pure)	13,656	3,414	9.14
Landscape Group	DX62FSY	Johnstons	Johnstons VT650	4500	Diesel (pure)	22,170	5,542	14.83
Landscape Group	DY13NKX	Vauxhall	Movano 35 FWD 2.3CDTI Tipper	2300	Diesel (retail)	19,644	4,911	12.69

Contractor	Registration Plate	Make	Model	Engine CC	Fuel	Travel Distance (miles)	Annual litres fuel	tCO ₂ e
Landscape Group	SH15WYL	Vauxhall	Movano B/tail	2300	Diesel (retail)	246	62	0.16
Landscape Group	FJ64FPD	Scarab	Minor	2900	Diesel (retail)	6,413	1,603	4.14
Landscape Group	HJ09MGY	Citroen	Berlingo	1560	Diesel (retail)	10,085	2,521	6.51
Landscape Group	KM10NJJ	Vauxhall	Movano single cab tipper caged	2464	Diesel (retail)	12,298	3,075	7.94
Landscape Group	SH15WUE	Vauxhall	Movano B/tail	2300	Diesel (retail)	4,785	1,196	3.09
Landscape Group	WU12EVV	Peugeot	Boxer single cab beavertail	2200	Diesel (retail)	16,823		6.77
Landscape Group	WU12EVW	Peugeot	Boxer single cab beavertail	2200	Diesel (retail)	12,496		5.03
Landscape Group	WU12EVX	Peugeot	Boxer single cab beavertail	2200	Diesel (retail)	11,097		4.46
Landscape Group	WU12EVY	Peugeot	Boxer single cab beavertail	2200	Diesel (retail)	11,621		4.68
Landscape Group	WX12CWF	Peugeot	Partner	2200	Diesel (retail)	11,931		4.80
Landscape Group	WX12EDV	Peugeot	Boxer beavertail	2200	Diesel (retail)	11,930		4.80
Landscape Group	WX13ENU	Peugeot	Boxer single car tipper	2200	Diesel (retail)	19,653		8.33
Landscape Group	DY65YCC	Vauxhall	Movano tipper	2300	Diesel (retail)	4,290		1.84
Landscape Group	GU65DHM	Ford	Transit tipper	2200	Diesel (retail)	4,489		1.84
Landscape Group	BD60UVO	Ford	Transit ARB body	2400	Diesel (retail)	15,477		6.23
Landscape Group	BF65WZP	Ford	Transit custom van	2200	Diesel (retail)	3,257		1.12
Landscape Group	DX16WBV	Vauxhall	Movano S/Cab Tipper	2300	Diesel (retail)	3,926		1.69
Landscape Group	GU65DFA	Ford	Transit S/C Tipper	2200	Diesel (retail)	4,022		1.65
Landscape Group	MV16GHB	Ford	Transit C/Cab Bin Lift	2200	Diesel (retail)	3,875		1.52
Landscape Group	MV63SJU	Ford	Transit C/Cab Caged Tipper	2200	Diesel (retail)	11,413		4.63
Landscape Group	DS14TYH	Ford	Transit connect 200	1600	Diesel (retail)	36,053		8.27
Biffa	GK61 FKE	Fiat	Doblo	1900	Diesel (retail)	15,669	1,820	4.70
Biffa	MV54WRZ	Ford	Ranger	1900	Diesel (retail)	16,900	2,100	5.43
Biffa	NY14FJJ	Peugeot	Partner	1600	Diesel (retail)	26,200	3,640	9.41
Biffa	GF61 LLO	Mercedes	Sprinter	1600	Diesel (retail)	24,759	3,910	10.10
Total						479,647	64,912	236.21

Table 22: Data supplied and emissions breakdown for depot contract lorry travel

ID	Registration Plate	Engine cc	Type of Lorry	Travel Distance (Miles)	Annual litres fuel	tCO ₂ e
Landscape Group	DK57FWF	4500	ALL HGVs (UK average)	16,174	Unknown	23.78
Biffa	AY58FEM	6370	Rigid >17t	5,604	5,137	13.27
Biffa	GK12TYA	4250	Rigid >7.5-17t	3,463	3,174	8.20
Biffa	GK61XTC	2998	Rigid >3.5-7.5t	6,412	5,877	15.19
Biffa	GK61XTE	4250	Rigid >17t	8,226	7,540	19.48
Biffa	VU10HWM	7146	Rigid >17t	11,046	10,124	26.16
Biffa	VU10HWN	7146	Rigid >17t	10,198	9,347	24.15
Biffa	VU10HWO	7146	Rigid >17t	5,270	4,830	12.48
Biffa	VU11HPO	7146	Rigid >17t	6,094	5,586	14.43
Biffa	VU61HKT	7146	Rigid >17t	9,995	9,161	23.67
Biffa	VU61HKV	7146	Rigid >17t	10,356	9,492	24.53
Biffa	VU61HKW	7146	Rigid >17t	7,833	7,180	18.55
Biffa	VU61HKX	7146	Rigid >17t	10,388	9,521	24.60
Biffa	VU61HKY	7146	Rigid >17t	7,257	6,651	17.19
Biffa	VU61HKZ	7146	Rigid >17t	7,199	6,598	17.05
Biffa	VU61HLA	7146	Rigid >17t	9,724	8,913	23.03
Biffa	VU61HLC	7146	Rigid >17t	7,920	7,259	18.76
Biffa	VU61HLD	7146	Rigid >17t	7,900	7,241	18.71
Biffa	VU61HLE	7146	Rigid >17t	7,543	6,913	17.86
Biffa	VU61HLF	7146	Rigid >17t	6,410	5,875	15.18
Biffa	VU61HLG	7146	Rigid >17t	5,300	4,858	12.55
Biffa	VU61HLH	7146	Rigid >17t	7,315	6,704	17.32
Biffa	VU61HLJ	7146	Rigid >17t	7,630	6,993	18.07
Biffa	VU61HLK	7146	Rigid >17t	6,976	6,394	16.52
Biffa	VU61HLM	7146	Rigid >17t	12,239	11,218	28.99
Biffa	VU61HLN	7146	Rigid >17t	11,129	10,200	26.36
Biffa	VU61HLO	7146	Rigid >17t	7,551	6,921	17.88
Biffa	VU61HLP	7146	Rigid >17t	7,242	6,638	17.15
Biffa	VU61HLR	7146	Rigid >17t	8,198	7,514	19.42
Biffa	VU61HLV	7146	Rigid >17t	8,426	7,723	19.95
Biffa	VU61HLW	7146	Rigid >17t	8,432	7,729	19.97
Biffa	VU61HLX	7146	Rigid >17t	14,818	13,581	35.09
Total				270,268	232,890	625.55

Table 23: Data supplied and emissions breakdown for staff business travel by employee owned car (grey fleet)

Type	Registration Plate	Engine CC	Fuel Type	Annual Mileage	tCO ₂ e
Casual	HY15 AEE	1200	Petrol (retail)	398	0.10
Casual	P958 GKR	1200	Petrol (retail)	151	0.04
Casual	GL58 ACV	1200	Petrol (retail)	88	0.02
Casual	HK14 HCU	1000	Petrol (retail)	4,650	1.19
Casual	HY53 YLF	1200	Diesel (retail)	498	0.12
Casual	FR12 BNY	1600	Diesel (retail)	146	0.03
Casual	EJ58 LMK	1800	Petrol (retail)	21	0.01
Casual	HD05 HVV	1200	Petrol (retail)	957	0.24
Casual	HV15 NJO	1200	Petrol (retail)	1,804	0.46
Casual	RV04 ZMY	1368	Petrol (retail)	155	0.04
Casual	HM13 MGU	2500	Diesel (retail)	51	0.02
Casual	SX53 FUT	1600	Diesel (retail)	89	0.02
Casual	GX13 LXL	136	Diesel (retail)	136	0.03
Casual	OV06 UEJ	2000	Petrol (retail)	500	0.16
Casual	HN61 XRB	1600	Petrol (retail)	77	0.02
Casual	GU05 SZZ	1600	Petrol (retail)	329	0.11
Casual	HJ57 VMF	1200	Petrol (retail)	49	0.01
Casual	CP08 CAT	1600	Petrol (retail)	1,079	0.35
Casual	YE60 UDH	1600	Diesel (retail)	145	0.03
Casual	HV15 XWH	1500	Diesel (retail)	137	0.03
Casual	HJ03 PBY	1590	Petrol (retail)	71	0.02
Casual	WV08FHD	1400	Petrol (retail)	108	0.03
Casual	HK64 NFY	2000	Diesel (retail)	101	0.03
Casual	LR14 XET	1000	Petrol (retail)	825	0.21
Casual	KY60 YXF	1600	Petrol (retail)	151	0.05
Casual	HV14 JWM	1000	Petrol (retail)	126	0.03
Casual	WP11 HFW	1600	Diesel (retail)	96	0.02
Casual	S35 JRV	1600	Petrol (retail)	696	0.22
Casual	MX57 YSN	2200	Diesel (retail)	321	0.12
Casual	FX02 WMU	2401	Diesel (retail)	197	0.07
Casual	DK58 YKS	1600	Petrol (retail)	70	0.02
Casual	RO13 NXM	3200	Petrol (retail)	173	0.08

Type	Registration Plate	Engine CC	Fuel Type	Annual Mileage	tCO ₂ e
Casual	HV03 PCF	1200	Petrol (retail)	273	0.07
Casual	HJ05 ZYG	1400	Diesel (retail)	8,988	2.08
Casual	DV08 ULY	2200	Diesel (retail)	1,127	0.41
Casual	HY63 OSL	1200	Petrol (retail)	1,120	0.29
Members	HJ06 TVN	1800	Petrol (retail)	680	0.22
Members	LR60 UFM	1600	Petrol (retail)	123	0.04
Members	FL62 XLD	1600	Petrol (retail)	336	0.11
Members	HN59 UTG	2400	Diesel (retail)	60	0.02
Members	HV13 UVO	1200	Petrol (retail)	4,241	1.08
Members	HV60 ONM	3000	Diesel (retail)	2,154	0.78
Members	YK09 YNB	2000	Diesel (retail)	923	0.26
Members	HN64 HJU	1600	Petrol (retail)	809	0.26
Members	HY13 RVJ	1000	Petrol (retail)	529	0.14
Members	T4 PKM	2000	Petrol (retail)	493	0.16
Members	R25 DCM	2700	Diesel (retail)	1,244	0.45
Members	HY59 UHB	1200	Petrol (retail)	720	0.18
Members	HY15 UKN	1400	Petrol (retail)	1,254	0.40
Members	HV09 DFE	1300	Petrol (retail)	842	0.21
Members	YP08 KZO	1500	Diesel (retail)	4,618	1.07
Members	R11 FEL	2000	Petrol (retail)	242	0.08
Members	HK08 HWB	2000	Diesel (retail)	1,138	0.32
Members	EOU14 AHU	1582	Diesel (retail)	3,199	0.74
Total				49,508	13.31

Table 24: Data supplied and emissions breakdown for staff business travel by cash opt out car

Registration Plate	Engine cc	Fuel Type	Annual Distance (Miles)	tCO ₂ e
RA07 FXC	1100	Diesel (retail)	507	0.12
HY15 AEE	1200	Petrol (retail)	548	0.14
WD59 EFG	1000	Petrol (retail)	434	0.11
NG54 CBF	1600	Petrol (retail)	1,105	0.35
RV54 FJU	1300	Petrol (retail)	121	0.03
WF54 PBZ	2000	Diesel (retail)	2,409	0.68
HV13 BBE	1601	Diesel (retail)	20	0.005

Registration Plate	Engine cc	Fuel Type	Annual Distance (Miles)	tCO ₂ e
P665 KPX	1600	Petrol (retail)	3,164	1.01
HG06VWP	1200	Petrol (retail)	626	0.16
GU09 PUJ	1400	Diesel (retail)	3,053	0.71
X984 EKX	2000	Petrol (retail)	60	0.02
HY63 YNT	1560	Diesel (retail)	494	0.11
YT09 FDN	1600	Petrol (retail)	271	0.09
RY51 MUM	1400	Diesel (retail)	454	0.10
DN10 NDJ	1400	Petrol (retail)	31	0.01
HY64 VSC	1300	Petrol (retail)	1,395	0.36
LL04 KRG	2143	Diesel (retail)	822	0.30
HY63 EOE	1200	Petrol (retail)	197	0.05
DG59 KOX	1400	Petrol (retail)	1,510	0.48
RE59 UAU	1598	Diesel (retail)	3,039	0.70
WR59 BUW	2000	Diesel (retail)	159	0.04
GV08 BZA	2000	Diesel (retail)	1,330	0.38
HN60 NMK	1400	Diesel (retail)	230	0.05
LU02 DAY	1200	Petrol (retail)	1,566	0.40
KN59 WNW	1600	Diesel (retail)	4,891	1.13
HV12 VKM	2200	Diesel (retail)	1,057	0.38
HG58 FKW	1600	Petrol (retail)	743	0.24
RJ60 CKV	1200	Petrol (retail)	1,639	0.42
HK10 YNE	1200	Petrol (retail)	37	0.01
SX53 FUT	1600	Diesel (retail)	739	0.17
VA53 KLF	1400	Diesel (retail)	745	0.17
RV03RXL	2000	Petrol (retail)	27	0.01
RK64 XEV	1999	Diesel (retail)	34	0.01
FY12 LUA	1576	Diesel (retail)	66	0.02
HF56 BWZ	2200	Diesel (retail)	960	0.35
LD60 UDV	1600	Diesel (retail)	346	0.08
HF14MKM	1600	Diesel (retail)	2,352	0.54
HG56 HNN	1600	Petrol (retail)	234	0.08
HJ57 VMF	1200	Petrol (retail)	482	0.12
YB07 VPU	2000	Diesel (retail)	1,527	0.43
DY14 ABU	1900	Diesel (retail)	1,900	0.54

Registration Plate	Engine cc	Fuel Type	Annual Distance (Miles)	tCO ₂ e
HG58 5ZD	1400	Diesel (retail)	1,568	0.36
RG07 KFA	2700	Diesel (retail)	1,675	0.61
LT06 XBR	3000	Diesel (retail)	721	0.26
AU53 CVN	999	Petrol (retail)	126	0.03
SC05 ZHN	1400	Petrol (retail)	1,886	0.60
VE54 LUP	1900	Diesel (retail)	13	0.004
HN04 ULF	1400	Petrol (retail)	4,319	1.39
VK12 SSX	1400	Petrol (retail)	730	0.23
DV05 ONP	1800	Petrol (retail)	159	0.05
HK54 GRU	1600	Petrol (retail)	52	0.02
250XXD	1900	Petrol (retail)	1,681	0.54
DA61 PDV	1400	Petrol (retail)	281	0.09
HY06 NAO	1400	Petrol (retail)	393	0.13
N107 TVC	2000	Petrol (retail)	424	0.14
K504 EJJ	1200	Petrol (retail)	204	0.05
HY10OUS	1400	Diesel (retail)	2,926	0.68
HK60 LHX	1400	Diesel (retail)	1,201	0.28
VK58YMU	1400	Diesel (retail)	233	0.05
HY60 JDF	1300	Diesel (retail)	873	0.20
AF56UNH	2200	Diesel (retail)	3,749	1.36
HY10 OTK	1400	Petrol (retail)	3,185	1.02
EF61 CHZ	1600	Diesel (retail)	781	0.18
GJ60 NGN	1400	Petrol (retail)	292	0.09
CE59 OJR	1400	Diesel (retail)	1,089	0.25
EJ58 CDK	1300	Petrol (retail)	109	0.03
NJ56 HGF	2000	Diesel (retail)	59	0.02
HN03 HAE	1000	Petrol (retail)	140	0.04
HG54 WZF	1600	Diesel (retail)	1,363	0.32
PE11 KBX	1700	Diesel (retail)	1,684	0.48
HT04 WMG	1200	Diesel (retail)	594	0.14
HK07 PFP	1600	Diesel (retail)	7,275	1.68
YD16 EHM	1598	Diesel (retail)	81	0.02
HN65 NVV	1000	Petrol (retail)	1,066	0.27
DF62 LJO	1400	Diesel (retail)	1,323	0.31

Registration Plate	Engine cc	Fuel Type	Annual Distance (Miles)	tCO ₂ e
GV54TKF	1100	Diesel (retail)	252	0.06
FV03 ECD	2100	Petrol (retail)	128	0.06
WM04 TRX	2000	Diesel (retail)	1,221	0.35
HY52 ZKN	1400	Petrol (retail)	1,079	0.35
HY65 ULE	1600	Diesel (retail)	2,308	0.53
HN05 RZS	1800	Petrol (retail)	406	0.13
RA55 HLR	1295	Petrol (retail)	133	0.03
FH53 ZVM	249	Petrol (retail)	249	0.06
RV65 YTY	1500	Diesel (retail)	580	0.13
KU11 GXM	2000	Petrol (retail)	242	0.08
GU64 FTO	770	Diesel (retail)	770	0.18
S41 KGM	1600	Diesel (retail)	6,815	1.58
HT06 BWB	2000	Diesel (retail)	891	0.25
YT56XAH	1200	Diesel (retail)	2,401	0.56
YY11VPR	1461	Diesel (retail)	1,700	0.39
YL64 AWF	1500	Diesel (retail)	1,006	0.23
MT08CLJ	2200	Diesel (retail)	189	0.07
HV05MPX	2000	Petrol (retail)	4,701	1.51
RA05 CCE	1200	Diesel (retail)	4,391	1.02
BG06 7HF	2000	Diesel (retail)	6,958	1.97
HV12 RUR	1198	Petrol (retail)	513	0.13
BV58NFC	1400	Petrol (retail)	377	0.12
OU59 YVS	1600	Diesel (retail)	93	0.02
Total			120,982	32.82

Table 25: Data supplied and emissions breakdown for staff business travel by train

Train Type	No. of Passenger Trips	Origin	Destination	Return Trip?	Distance (km)	tCO ₂ e
National rail	3	Alton	London	Yes	81.8	0.02
National rail	2	Andover	London	Yes	114.0	0.02
National rail	4	Basingstoke	London	Yes	82.2	0.03
National rail	1	Botley	London	Yes	136.0	0.01
National rail	1	Bournemouth	London	Yes	171.0	0.02
National rail	1	Bournemouth	Nottingham	Yes	327.0	0.03

Train Type	No. of Passenger Trips	Origin	Destination	Return Trip?	Distance (km)	tCO ₂ e
National rail	3	Chippenham	London	Yes	158.0	0.04
National rail	4	Chippenham	Reading	Yes	99.2	0.04
National rail	1	Christchurch	Winchester	Yes	55.0	0.005
National rail	3	Eastleigh	Andover	Yes	39.7	0.01
National rail	2	Eastleigh	Birmingham	Yes	222.0	0.04
National rail	1	Eastleigh	Harrowgate	Yes	411.0	0.04
National rail	17	Eastleigh	London	Yes	120.0	0.18
National rail	2	Eastleigh	Oxford	Yes	101.0	0.02
National rail	1	Eastleigh	Southampton	Yes	9.5	0.001
National rail	1	Eastleigh	Swanscombe	Yes	165.0	0.01
National rail	6	Fareham	London	Yes	126.0	0.07
National rail	4	Havant	London	Yes	114.0	0.04
National rail	3	Hedge End	London	Yes	134.0	0.04
National rail	1	Hinton Admiral	Bath	Yes	105.0	0.01
National rail	2	Manchester	Liverpool	Yes	56.1	0.01
National rail	2	Micheldever	London	Yes	96.7	0.02
National rail	1	Pokesdown	Birmingham	Yes	272.0	0.02
National rail	1	Pokesdown	London	Yes	169.0	0.02
National rail	1	Poole	Bristol	Yes	110.0	0.01
National rail	1	Poole	Totton	Yes	55.6	0.01
National rail	1	Salisbury	Guildford	Yes	104.0	0.01
National rail	4	Salisbury	London	Yes	141.0	0.05
National rail	4	Sholing	London	Yes	137.0	0.05
National rail	1	Sholing	Portsmouth	Yes	26.7	0.002
National rail	1	Southampton	Bath	Yes	101.0	0.01
National rail	1	Southampton	Chippenham	Yes	95.6	0.01
National rail	9	Southampton	London	Yes	128.0	0.10
National rail	1	Southampton	Winchester	Yes	20.6	0.002
National rail	1	Southampton Airport Parkway	Bath	Yes	102.0	0.01
National rail	1	Southampton Airport Parkway	Birmingham	Yes	228.0	0.02
National rail	1	Southampton Airport Parkway	Blackpool North	Yes	424.0	0.04
National rail	4	Southampton Airport Parkway	Bristol	Yes	119.0	0.04
National rail	1	Southampton Airport Parkway	Farnborough	Yes	72.4	0.01
National rail	2	Southampton Airport Parkway	London	Yes	126.0	0.02

Train Type	No. of Passenger Trips	Origin	Destination	Return Trip?	Distance (km)	tCO ₂ e
National rail	1	Totton	London	Yes	132.0	0.01
National rail	2	Warminster	London	Yes	165.0	0.03
National rail	8	Whitchurch	London	Yes	109.0	0.08
National rail	1	Winchester	Aldershot	Yes	50.0	0.005
National rail	3	Winchester	Andover	Yes	25.7	0.01
National rail	4	Winchester	Basingstoke	Yes	30.1	0.01
National rail	1	Winchester	Bath	Yes	101.0	0.01
National rail	2	Winchester	Birmingham	Yes	208.0	0.04
National rail	1	Winchester	Bournemouth	Yes	63.9	0.01
National rail	2	Winchester	Bristol	Yes	125.0	0.02
National rail	1	Winchester	Burton on Trent	Yes	235.0	0.02
National rail	1	Winchester	Cardiff	Yes	195.0	0.02
National rail	1	Winchester	Christchurch	Yes	59.1	0.01
National rail	2	Winchester	Coventry	Yes	177.0	0.03
National rail	8	Winchester	Eastleigh	Yes	12.9	0.01
National rail	1	Winchester	Farnborough	Yes	55.8	0.01
National rail	1	Winchester	Glasgow	Yes	667.0	0.06
National rail	1	Winchester	Havant	Yes	48.2	0.004
National rail	1	Winchester	High Wycombe	Yes	94.7	0.01
National rail	2	Winchester	Kensington & Olympia	Yes	105.0	0.02
National rail	72	Winchester	London	Yes	109.0	0.71
National rail	1	Winchester	Milton Keynes	Yes	146.0	0.01
National rail	2	Winchester	Newbury	Yes	39.6	0.01
National rail	1	Winchester	Newcastle	Yes	511.0	0.05
National rail	2	Winchester	Portchester	Yes	37.5	0.01
National rail	4	Winchester	Portsmouth	Yes	43.7	0.02
National rail	1	Winchester	Reading	Yes	61.1	0.01
National rail	4	Winchester	Salisbury	Yes	38.5	0.01
National rail	1	Winchester	Southampton	Yes	20.5	0.002
National rail	2	Winchester	Theale	Yes	53.0	0.01
National rail	1	Winchester	Windsor	Yes	78.0	0.01
National rail	1	Winchester	Wrexham	Yes	312.0	0.03
National rail	1	Woolston	London	Yes	131.0	0.01
National rail	1	Chippenham	Cornwall	Yes	304.0	0.03

Train Type	No. of Passenger Trips	Origin	Destination	Return Trip?	Distance (km)	tCO ₂ e
National rail	1	Chippenham	London	Yes	158.0	0.01
National rail	1	Crewe	Ambergate	Yes	87.9	0.01
National rail	5	Crewe	Birmingham	Yes	94.3	0.04
National rail	6	Crewe	Chesterfield	Yes	86.5	0.05
National rail	4	Crewe	Hemel Hempstead	Yes	241.0	0.09
National rail	1	Crewe	Liverpool	Yes	68.1	0.01
National rail	4	Crewe	London	Yes	276.0	0.10
National rail	2	Crewe	Milton Keynes	Yes	200.0	0.04
National rail	1	Crewe	Reading	Yes	252.0	0.02
National rail	1	Crewe	Winchester	Yes	293.0	0.03
National rail	1	Crewe	Wolverhampton	Yes	75.7	0.01
National rail	1	Eastleigh	Winchester	Yes	12.3	0.001
National rail	1	Euston	Hounslow	Yes	22.4	0.002
National rail	1	Fareham	Havant	Yes	17.4	0.002
National rail	2	Hemel Hempstead	Whitchurch	Yes	112.0	0.02
National rail	1	London	Crewe	Yes	276.0	0.02
National rail	1	London	Southampton	Yes	128.0	0.01
National rail	1	Manchester	Reading	Yes	299.0	0.03
National rail	2	Milton Keynes	Hemel Hempstead	Yes	48.2	0.01
National rail	1	Newark	Whitchurch	Yes	244.0	0.02
National rail	1	Reading	Westbury	Yes	128.0	0.01
National rail	4	Shrewsbury	Birmingham	Yes	78.8	0.03
National rail	1	Southampton	Havant	Yes	35.8	0.003
National rail	1	Southampton	Manchester	Yes	361.0	0.03
National rail	2	Whitchurch	Birmingham	Yes	189.0	0.03
National rail	1	Whitchurch	Coventry	Yes	157.0	0.01
National rail	2	Whitchurch	Liverpool	Yes	333.0	0.06
National rail	1	Whitchurch	London	Yes	109.0	0.01
National rail	2	Whitchurch	Stafford	Yes	227.0	0.04
National rail	1	Whitchurch	Stoke	Yes	253.0	0.02
National rail	2	Whitchurch	Winchester	Yes	20.4	0.004
National rail	2	Winchester	Birmingham	Yes	195.0	0.04
National rail	1	Winchester	Cambridge	Yes	195.0	0.02
National rail	1	Winchester	Coventry	Yes	177.0	0.02

Train Type	No. of Passenger Trips	Origin	Destination	Return Trip?	Distance (km)	tCO ₂ e
National rail	1	Winchester	Liverpool	Yes	357.0	0.03
National rail	28	Winchester	London	Yes	110.0	0.28
National rail	1	Winchester	Newark	Yes	264.0	0.02
National rail	3	Winchester	Reading	Yes	59.4	0.02
National rail	1	Winchester	Warwick	Yes	157.0	0.01
National rail	1	Winchester	Whitchurch	Yes	20.4	0.002
National rail	1	Wolverhampton	Winchester	Yes	225.0	0.02
Total	335					3.66

Table 26: Data supplied and emissions breakdown for staff business travel by taxi

Type of Taxi	Annual cost (£)	Departure	Destination	Distance (miles)	tCO ₂ e
Regular taxi	£532.00	Tourist Information Office, Guildhall	Sparsholt College, Westley	182.4	0.05
Regular taxi	£532.00	Sparsholt College, Westley	Tourist Information Office, Guildhall	182.4	0.05
Total	£1,064.00			364.8	0.10

Table 27: Data supplied and emissions breakdown for Park & Ride bus service

Type of Bus	Distance (km)	tCO ₂ e
Local bus	350,000	38.09

Table 28: Data supplied and emissions breakdown for staff business flights

No. of passenger trips	Type	Destination	Departure	Return Trip?	Total tCO ₂ e
1	Unknown	Southampton	Manchester	Yes	0.16

Table 29: Data supplied and emissions breakdown for the transmission and distribution of purchased electricity

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
WCC	Abbey Grounds Store		2,051	0.08
WCC	Abbey House	1	7,017	0.27
WCC	Bank House - Common Area		2,282	0.09
WCC	Bowls Pavillion, Gordon Road		186	0.01
WCC	Car Park - Brooks		640,820	24.45
WCC	Car Park Misc - Bar End Park & Ride/St Catherines		34,974	1.33
WCC	Car Park Misc - Barfield Close		19,682	0.75
WCC	Car Park Misc - Cattle Market CCTV		1,779	0.07
WCC	Car Park Misc - Discovery Centre		0	0.00
WCC	Car Park Misc - Gladstone Street		5,635	0.22
WCC	Car Park Misc - Lower Lane Hut Bish Walt		765	0.03
WCC	Car Park Misc - Middle Brook St		7,524	0.29
WCC	Car Park Misc - Middle Brook St Pump		803	0.03
WCC	Car Park Misc - 'Old St Catherines Hut'		4,742	0.18
WCC	Car Park Misc - Tower Street		245,433	9.37
WCC	Car Park - Tower Street - Attendants Room & Public Convenience		14,036	0.54
WCC	Car Park Misc - Worthy Lane Att Hut		0	0.00
WCC	Car Park Chesil m/s Car Park - Day		121,290	4.63
WCC	Car Park Chesil m/s Car Park - Night		43,492	1.66
WCC	Car Park - Friarsgate m/s - Day		1,875	0.07
WCC	Car Park - Friarsgate m/s - Night		813	0.03
WCC	Car Park - Park and Ride South - Otterbourne/Hockley		8,026	0.31
WCC	Cricket Pavillion - Low		4,910	0.19
WCC	Cricket Pavillion - Norm		93	0.00
WCC	City Offices Annex	Included in below figure	14,974	0.57
WCC	City Offices	314	240,498	9.18
WCC	Guildhall	44	409,593	15.63
WCC	F2	1	27,924	1.07

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
WCC	Footbridge Bishops Waltham		1,592	0.06
WCC	Kings Court	105	196,676	7.51
WCC	Magdalen Hill Cemetery Lodge		2,896	0.11
WCC	Market Traders Meter (Brooks)		14,393	0.55
WCC	Market Traders Meter (2)		2,047	0.08
WCC	Museum - The Square	2	13,894	0.53
WCC	Museum - Westgate	0	3,491	0.13
WCC	Museum - Westgate	As above	6,793	0.26
WCC	6 Middlebrook Street		659	0.03
WCC	8 Middle Brook Street/Office Above Bejams/ Car Parks		6,078	0.23
WCC	Public Convenience - Station Road Alresford		4,420	0.17
WCC	Public Convenience - Houchin Street, Bishops Waltham		13,496	0.52
WCC	Public Convenience - Denmead - Kidmore Lane		2,247	0.09
WCC	Public Convenience - Market Street		25,505	0.97
WCC	Public Convenience - Worthy Lane		6,852	0.26
WCC	Public Convenience - Warwick Way, Wickham		6,549	0.25
WCC	Public Convenience - Abbey Grounds Green Box, Ladies & Gents		11,472	0.44
WCC	Public Convenience - Discovery Centre		4,650	0.18
WCC	Showcases		4,296	0.16
WCC	Sports Pavillion Bar End Road 1		0	0.00
WCC	Sports Pavillion 2 Milland Road - Low		2,065	0.08
WCC	Sports Pavillion 2 Milland Road - Norm		4,715	0.18
WCC	SPORTS PAVILLION BAR END.		1,034	0.04
WCC	St Georges Street Lighting - Low		1,624	0.06
WCC	St Georges Street Lighting - Norm		815	0.03
WCC	Weeke Pond		2,725	0.10
WCC	Baring Close		1,208	0.05
WCC	Beech Grove		612	0.02
WCC	Bighton		5,731	0.22
WCC	Woodman Close/Church Farm Cottages		2,618	0.10

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
WCC	Couch Green		885	0.03
WCC	Couch Green, Martyr Worthy		13,668	0.52
WCC	Cricket Close		3,803	0.15
WCC	Hazeldene Gardens		1,166	0.04
WCC	Hilly Close		184	0.01
WCC	Hobbs Close		17,411	0.66
WCC	Hobbs Close Pump House		1,955	0.07
WCC	Kiln Lane		3,652	0.14
WCC	Long Priors		15,726	0.60
WCC	Long Road		13,501	0.52
WCC	North Drive		10,917	0.42
WCC	Northington Road		29,299	1.12
WCC	Old Alresford, Basingstoke Road		322	0.01
WCC	Park Lane		27,009	1.03
WCC	Pound Lane		928	0.04
WCC	Widley Walk, Purbrook		10,081	0.38
WCC	St. Andrews Green		437	0.02
WCC	The Brook		1,402	0.05
WCC	The Brook		2,376	0.09
WCC	The Goodens - Peak		249	0.01
WCC	The Goodens - Off Peak		735	0.03
WCC	The Pastures		247	0.01
WCC	The Pastures		1,227	0.05
WCC	The Pastures		796	0.03
WCC	Trampers Lane, Birch Hill		1,045	0.04
WCC	Trampers Lane, Wine Cross		9,546	0.36
WCC	Woodlane Close		1,099	0.04
WCC	Woodlane Close		7,151	0.27
WCC	Woodlane Close		4,350	0.17
WCC	Granville Place		689	0.03
WCC	Itchen View		3,193	0.12
WCC	Itchen View - Water Treatment Plant		6,269	0.24
WCC	Elm Crescent		6,456	0.25

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
WCC	Oak Close		6,240	0.24
WCC	Southbrook Place, Rook Lane		6,410	0.24
WCC	Railway Cottages, Station Road		5,876	0.22
WCC	Hallway, Hollands Close - Day		963	0.04
WCC	Hallway, Hollands Close - Night		392	0.01
WCC	Hyde Lodge - Basement - Wardens Office	10	6,821	0.26
WCC	Hyde Lodge - Ground - Central Control - New Meter	As above	6,472	0.25
WCC	Hyde Lodge - First/Top - Meeting Rooms & Storage	As above	2,253	0.09
WCC	Basepoint		54,897	2.09
WCC	Bar End Depot	8	41,746	1.59
WCC	Kingswalk, Landlords Supply		23,864	0.91
WCC	Kingswalk, 2nd & 3rd Floor Office		0	0.00
WCC	West Hill Cemetery		1,288	0.05
WCC	Registrars Office		2,872	0.11
WCC	Bishops Waltham Depot - Rear		6	0.00
WCC	Barfield Close - Ex TJ Waste		370	0.01
WCC	Unmetered ticket machines		30,015	1.15
WCC	Unmetered CCTV Bishops Waltham		1,319	0.05
WCC	Unmetered Lighting Bishops Waltham 1		570	0.02
WCC	Unmetered Lighting Bishops Waltham 2		14	0.00
WCC	Ticket Machines Wickham Square		1,771	0.07
WCC	High Street Feeder Pillar 1		589	0.02
WCC	High Street Feeder Pillar 2		3,472	0.13
WCC	High Street Feeder Pillar 3		6,275	0.24
WCC	High Street Feeder Pillar 4		8,323	0.32
WCC	High Street Feeder Pillar 5		2,505	0.10
WCC	Street Lighting		63,737	2.43
Sub Total			2,689,204	102.62
Housing	Airlie Corner		1,385	0.05
Housing	Albert Court		17,747	0.68
Housing	Alresford Road 118 - 120 Linkway		3	0.00

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
Housing	Alresford Road 90 - 92 Linkway		1	0.00
Housing	Ashburton Close 1 - 2		638	0.02
Housing	Ashburton Close 3 - 4		602	0.02
Housing	Ashburton Close 5 - 6		391	0.01
Housing	Barnes House		0	0.00
Housing	Blanchard Road 26 - 32 Link Stairway		857	0.03
Housing	Blanchard Road 36 - 40 Link Stairway		868	0.03
Housing	Braxton House, Winnall Manor Road		12,934	0.49
Housing	Brittany House		47,090	1.80
Housing	Charles Close Flats 15 - 20		393	0.01
Housing	Charles Close Flats 21 - 23		441	0.02
Housing	Charles Close Flats 24 - 27		236	0.01
Housing	Charles Close Flats 28 - 33		838	0.03
Housing	Charles Close Flats 34 - 37		326	0.01
Housing	Charles Close Flats 56 - 78		295	0.01
Housing	Charles Close Flats 9 - 14		674	0.03
Housing	Chester Road		5,925	0.23
Housing	Chiltern Court 9 - 16		883	0.03
Housing	Chiltern Court CT Block		1,100	0.04
Housing	Chiltern Court CT Block		2,140	0.08
Housing	Chiltern Court Flats 1 - 8		1,254	0.05
Housing	Colbourne Court		5,375	0.21
Housing	Colson Close		1,071	0.04
Housing	Colson Close Flats 1 - 6		1,299	0.05
Housing	Colson Close Flats 13 - 16		393	0.01
Housing	Colson Close Flats 17 - 20		1,031	0.04
Housing	Colson Close Flats 7 - 12		1,132	0.04
Housing	Craddock House		13,518	0.52
Housing	Cripstead Lane		1,490	0.06
Housing	Crockford House		1,714	0.07
Housing	Dalzell Worthy Road		845	0.03
Housing	Danemark Court		45,670	1.74
Housing	Dennett House		16,629	0.63

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
Housing	Doctors Lane Alarm System		215	0.01
Housing	Drummond Close		1,738	0.07
Housing	Earle House		14,695	0.56
Housing	Eastacre		1,990	0.08
Housing	Eastacre		1,259	0.05
Housing	Eastacre		14,669	0.56
Housing	Eastacre		760	0.03
Housing	Eastgate Street 31-35 Estab Supply		2,175	0.08
Housing	Eastgate Street No 27		4,689	0.18
Housing	Fairdown Close		157	0.01
Housing	Fairdown Close Lids Supply No 6		2	0.00
Housing	Firmstone Road 22 Wardens Common Room		113	0.00
Housing	Firmstone Road 22 Wardens Common Room		186	0.01
Housing	Firmstone Road 27a Common Room		11,199	0.43
Housing	Firmstone Road Flats 105 - 115		537	0.02
Housing	Firmstone Road Flats 117 - 127		477	0.02
Housing	Firmstone Road Flats 129 - 139		759	0.03
Housing	Firmstone Road Flats 141 - 151		538	0.02
Housing	Firmstone Road Flats 153 - 163		669	0.03
Housing	Firmstone Road Flats 31 - 33		626	0.02
Housing	Firmstone Road Flats 69 - 79		516	0.02
Housing	Firmstone Road Flats 81 - 91		529	0.02
Housing	Firmstone Road Flats 93 - 103		824	0.03
Housing	Firmstone Road Staircases		550	0.02
Housing	Firmstone Road Staircases		444	0.02
Housing	Firmstone Road Staircases		254	0.01
Housing	Firmstone Road Staircases		119	0.00
Housing	Firmstone Road Staircases		328	0.01
Housing	Firmstone Road Staircases		373	0.01
Housing	Fleming Place Flats 19-20		420	0.02
Housing	Fleming Place Flats 21 - 22a		522	0.02
Housing	Fleming Place Flats 23-24A		488	0.02
Housing	Fordor Court, 41 St Cross Road		18,418	0.70

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
Housing	Fraser Road 31-33B		464	0.02
Housing	Fraser Road 35-37B		276	0.01
Housing	Fraser Road 39-41b		463	0.02
Housing	Fraser Road 43 - 45b		295	0.01
Housing	Fraser Road 47-49		228	0.01
Housing	Fraser Road 51-53b		521	0.02
Housing	Fraser Road 55-57b		355	0.01
Housing	Fulflood Court		2,251	0.09
Housing	Godson House		25,004	0.95
Housing	Greens Close Communal Supply		2,364	0.09
Housing	Greens Close, Link Stairway 11-17		828	0.03
Housing	Greens Close, Link Stairway 1-7		800	0.03
Housing	Greens Close, Link Stairway 19-25		754	0.03
Housing	Greens Close, Link Stairway 27-33		842	0.03
Housing	Greyfriars Ent 1, Eastgate Street		1,517	0.06
Housing	Greyfriars Ent 2, Eastgate Street		1,980	0.08
Housing	Harwood Place		2,267	0.09
Housing	Harwood Place Block 10a		558	0.02
Housing	Harwood Place Block 10b		989	0.04
Housing	Harwood Place Block 10c		377	0.01
Housing	Harwood Place Block 10d		586	0.02
Housing	Harwood Place Block 10e		324	0.01
Housing	Harwood Place Block 8a		906	0.03
Housing	Harwood Place Block 8b		450	0.02
Housing	Harwood Place Block 9B		834	0.03
Housing	Harwood Place Flats 32-35		378	0.01
Housing	Hyde Gate Common Room		2,447	0.09
Housing	Hyde Gate Flats 11-14		1,097	0.04
Housing	Hyde Gate Flats 15-18		679	0.03
Housing	Hyde Gate Flats 2-3		497	0.02
Housing	Hyde Gate Flats 4-9		706	0.03
Housing	Hyde Gate Floodlighting, King Alfred Place		4,917	0.19
Housing	Hyde Lodge		4,172	0.16

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
Housing	Hyde Lodge Flats 23-26		8,107	0.31
Housing	Hyde Lodge Flats 3 - 8		2,884	0.11
Housing	Hyde Street, No 69, Landlords Supply		72	0.00
Housing	James Howell Court, Bere Road		3,090	0.12
Housing	King Alfred Place Flats 21- 23		375	0.01
Housing	King Alfred Place Flats 24 - 28		872	0.03
Housing	King Harold Court Block 1		9,059	0.35
Housing	King Harold Court Block 2		451	0.02
Housing	King Harold Court Block 3		8,608	0.33
Housing	King Harold Court Block 4		741	0.03
Housing	Lawn House		1,744	0.07
Housing	Lawn House Block 2		1,752	0.07
Housing	Lawn House Block 3		1,894	0.07
Housing	Lawn House Block 4		2,172	0.08
Housing	Lawn House Block 5		1,542	0.06
Housing	Lawn House Block 6		1,782	0.07
Housing	Lawn House Comm Centre		3,015	0.12
Housing	Lent Hill Court		21,907	0.84
Housing	Lisle Court Block A		6,004	0.23
Housing	Lisle Court Block B		679	0.03
Housing	Lower Brook Street 2-23 A		333	0.01
Housing	Makins Court Landlords Supply 2		38,444	1.47
Housing	Matilda Place		29,387	1.12
Housing	Meon House		3,127	0.12
Housing	Mildmay Court Flats 1 - 7		0	0.00
Housing	Mildmay Court Flats 1-6		1,866	0.07
Housing	Mildmay Court Flats 1-6		3,309	0.13
Housing	Mildmay Court Flats 1-6		4,217	0.16
Housing	Mildmay Court Flats 18-26		14,482	0.55
Housing	Milland Road 16-19		1,424	0.05
Housing	Milland Road 17-20		1,175	0.04
Housing	Milland Road 22-25		1,005	0.04
Housing	Milland Road 26-33		1,586	0.06

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
Housing	Milland Road 34-37		738	0.03
Housing	Milland Road Common Room		3,060	0.12
Housing	Monks Road STR Lighting		362	0.01
Housing	Monks Road STR Lighting		47	0.00
Housing	Normandy Court Blk A		6,086	0.23
Housing	Normandy Court Blk B		4,525	0.17
Housing	Normandy Court Blk C		8,560	0.33
Housing	Normandy Court Blk D		4,491	0.17
Housing	Normandy Court Blk E		6,407	0.24
Housing	Orchard Close Block 2 Flats 25-28		596	0.02
Housing	Orchard Close Block 3 Flats 21-24		760	0.03
Housing	Orchard Close Block 4 Flats 17-20		559	0.02
Housing	Orchard Close Block 5 Flats 29-32		682	0.03
Housing	Orchard Close Block 8 Flats 1-4		844	0.03
Housing	Orchard Close Block 8 Flats 5-8		614	0.02
Housing	Parmiter House Wales Street		1,837	0.07
Housing	Paulet Place Landlords Supply		746	0.03
Housing	Penton Place on Milland Road		605	0.02
Housing	Penton Place on Milland Road		1,094	0.04
Housing	Pound Road Block 6 A		416	0.02
Housing	Pound Road Block 6 B Fls 11		419	0.02
Housing	Pound Road Block 7		853	0.03
Housing	Pound Road Block 7 A		412	0.02
Housing	Pound Road Block 7 Flats 41-47		638	0.02
Housing	Pound Road Flats 14 - 20		358	0.01
Housing	Pound Road Flats 2 - 12		323	0.01
Housing	Pound Road Flats 21 - 27		324	0.01
Housing	Pound Road Flats 22 - 28		547	0.02
Housing	Pound Road Flats 30 - 36		573	0.02
Housing	Pound Road Flats 37 - 39		461	0.02
Housing	Pound Road Flats 38 - 44		351	0.01
Housing	Quarry Road Flats 59 - 65		9	0.00
Housing	Ramsay Road Block 11 F		284	0.01

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
Housing	Richard Moss House		54,480	2.08
Housing	Riverside House		836	0.03
Housing	Riverside House		1,106	0.04
Housing	Riverside House		567	0.02
Housing	Bartholomew Close		45,794	1.75
Housing	Robertson Road Flats 1 - 2a		206	0.01
Housing	Robertson Road Flats 11-12		400	0.02
Housing	Robertson Road Flats 13 - 14a		321	0.01
Housing	Robertson Road Flats 3-4		431	0.02
Housing	Robertson Road Flats 5-6		321	0.01
Housing	Robertson Road Flats 7-8		455	0.02
Housing	Robertson Road Flats 9-10		142	0.01
Housing	Simmonds Court		2,372	0.09
Housing	Simmonds Court Flats 5-8		473	0.02
Housing	Simonds Court Flats 1-4		548	0.02
Housing	Simonds Court Flats 9-12		1,242	0.05
Housing	Somerville Road 10 - 12a		449	0.02
Housing	Somerville Road 14 - 16a		368	0.01
Housing	Somerville Road 6 - 8a		401	0.02
Housing	Spicers Court Landlords Supply		1,418	0.05
Housing	Spring House		3,950	0.15
Housing	Spring House Close Flats 11-12		519	0.02
Housing	Spring House Close Flats 13-18		997	0.04
Housing	Spring House Close Flats 1-4		602	0.02
Housing	Spring House Close Flats 19-24		820	0.03
Housing	Spring House Close Flats 25-30		608	0.02
Housing	Spring House Close Flats 31-36		1,123	0.04
Housing	Spring House Close Flats 5-10		612	0.02
Housing	St Bedes Court		1,242	0.05
Housing	St James Terrace No 3 Landlords Supply		487	0.02
Housing	St Johns Street No 10 Landlords Supply		2,147	0.08
Housing	Stanmore Library		0	0.00
Housing	Sussex Street 84 - 86		143	0.01

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
Housing	Sussex Street No 86		41,878	1.60
Housing	Test House Milland Road		2,828	0.11
Housing	The Valley		2,419	0.09
Housing	The Valley, Block 1		547	0.02
Housing	The Valley, Block 2		504	0.02
Housing	The Valley, Block 3		536	0.02
Housing	The Valley, Block 4		569	0.02
Housing	The Valley, Block 5		586	0.02
Housing	The Valley, Block 6		488	0.02
Housing	The Valley, Block 7		582	0.02
Housing	The Valley, Block 8		516	0.02
Housing	The Valley, Block 9		1,004	0.04
Housing	Thurmond Crescent Flats 41 - 46		1,423	0.05
Housing	Thurmond Crescent Flats 47 - 52		802	0.03
Housing	Thurmond Crescent Flats 53 - 58		888	0.03
Housing	Thurmond Crescent Flats 59 - 64		1,087	0.04
Housing	Thurmond Crescent Flats 65 - 70		685	0.03
Housing	Thurmond Crescent Flats 71 - 76		811	0.03
Housing	Trussell Crescent Blk 1		3,359	0.13
Housing	Trussell Crescent Blk 2		3,287	0.13
Housing	Victoria House		13	0.00
Housing	Victoria House		811	0.03
Housing	Wales Street		1,068	0.04
Housing	Water Lane Landlords Supply Block 5		645	0.02
Housing	Whitewings House		74,800	2.85
Housing	Windsor House, Lawn Street		1,843	0.07
Housing	Windsor House, Lawn Street		2,487	0.09
Housing	Windsor House, Lawn Street		1,956	0.07
Housing	Woolford Close Flats 10 - 15		998	0.04
Housing	Woolford Close Flats 16-25		1,533	0.06
Housing	Woolford Close Flats 1-9		1,809	0.07
Housing	Woolford Close Flats 32-37		1,291	0.05
Housing	Woolford Close Flats 38-47		1,053	0.04

ID	Site Name	No. of staff (if applicable)	Grid Electricity (kWh)	Electricity Transmission & Distribution (tCO ₂ e)
Housing	Woolford Close Flats 6-7		1,099	0.04
Sub Total			837,023	31.94
Total		485	3,526,227	134.56

Table 30: Data supplied and emissions breakdown for electricity and gas consumption at the leisure centres

Site Name	Grid Electricity (kWh)	Natural Gas (kWh)	Electricity Generation (tCO ₂ e)	Electricity T&D (tCO ₂ e)	Natural Gas (tCO ₂ e)	Total tCO ₂ e
Meadowside Leisure Centre	88,890	119,362	41.08	3.39	22.02	66.49
River Park Leisure Centre	852,914	3,634,710	394.21	32.55	670.42	1,097.18
River Park Leisure Centre - Tennis Court Flood Lighting	57,521	0	26.59	2.20	0.00	28.78
Totals	999,325	3,754,072	461.88	38.13	692.44	1,192.45

Table 31: Data supplied and emissions breakdown for water consumption

Site	Water supply (m ³)	Water Supply (tCO ₂ e)	Estimated wastewater %	Wastewater treatment (tCO ₂ e)	Total emissions from water consumption (tCO ₂ e)
West Wing	507	0.17	95%	0.34	0.52
Guildhall	2,062	0.71	95%	1.39	2.10
City Offices	1,123	0.39	95%	0.76	1.14
City Offices Annex	157	0.05	95%	0.11	0.16
Abbey House	24	0.01	95%	0.02	0.02
Totals	3,873	1.33		2.60	3.94