

Greenhouse Gas (GHG) Emissions Report June 2020

1. Introduction

Eastleigh Borough Council has adopted the Department for Energy and Climate Change (DECC) request that, as from July 2011, Local Authorities report greenhouse gas (GHG) emissions from their own estates and services using a standard DEFRA methodology and format.

This report covering the period of 2019/20 is the first produced since the July 2019 Climate and Environmental Emergency Declaration and associated Strategy and Action Plan published in November 2019. The new strategy includes a commitment for the Council to move to an industry leading comprehensive approach to Greenhouse Gas Reporting. Section 6 sets out differences between the new and old methodologies, the most significant of which being additional figures relating to procurement. For transparency and to continue benchmarking with other Local Authorities the old methodology will also continue to be reported for the time being.

Based on the old methodology the Council has continued to reduce emissions, this change related to a reduction in electricity usage and this more than offsets an increase in gas consumption at the Places Leisure CHP plant. The new methodology indicates a significant change in Council emissions from 2018/19, this predominately relates to a higher level of construction spend than in the previous year, at this stage it should not be considered a trend.

2. Emissions Summary

Table 1 summarises Eastleigh Borough Council's GHG emissions for the past two years against the new Climate & Environmental Emergency methodology base year of 2018/19 in tCO_{2e}

| | 2019/20 | 2018/19 |
|--|----------------|----------------|
| Scope 1 (Gas, Oil, Fuel) | 1825 | 1774 |
| Scope 2 (Elec, Street Lights, Water, Biomass) | 407 | 494 |
| Scope 3 (Business Travel, Commute & Procurement) | 5347 | 8305 |
| Total gross emissions | 7619 | 10573 |
| | | |
| Carbon credits | 332 | 333 |
| Total net emissions | 7287 | 10240 |

Table 1 - GHG emissions summary tCO_{2e} (not weather corrected)

Table 2 summarises Eastleigh Borough Council's GHG emissions for the past five years against the old DEFRA methodology baseline year of 2007/08 in tCO_{2e}

| | 2019/20 | 2018/19 | 2017/18 | 2016/17 | 2007/08 |
|--------------------------------------|-------------|-------------|-------------|-------------|-------------|
| Scope 1 (Gas, Oil, Fuel) | 1826 | 1774 | 1579 | 1790 | 2036 |
| Scope 2 (Elec, Street Lights, Water) | 396 | 484 | 674 | 819 | 753 |
| Scope 3 (Business Travel) | 32 | 35 | 20 | 39 | 104 |
| Total gross emissions | 2254 | 2293 | 2273 | 2648 | 2893 |
| | | | | | |
| Carbon credits | 332 | 333 | 450 | 549 | 0 |
| Total net emissions | 1922 | 1960 | 1823 | 2099 | 2892 |
| %reduction from 2007/08 | 34% | 32% | 37% | 27% | |

Table 2 - GHG emissions summary tCO_{2e} (not weather corrected)

3. Company Information

Eastleigh Borough Council is a district Council within Hampshire providing a range of services to a resident population of 131,819. The registered address is Eastleigh House, Upper Market Street, Eastleigh, Hampshire, SO50 9YN

4. Reporting Period

This report is for the financial year 1 April 2018 to 31 March 2019.

5. Changes in Emissions

Emissions have dropped for this period over the previous year for some of the following reasons:

- Embodied emissions through procurement is the most significant element of the new methodology, these emissions can vary significantly due to changing council activities. Over time it should become apparent the impact improved Council procurement activities will have on GHG emissions.
- Electricity consumption has reduced over the whole portfolio which is due to the carbon intensity of electricity reducing and also considerable savings made at Places Leisure Eastleigh and Eastleigh House.
- Gas consumption has increased due to the CHP system being turned on at the Fleming Park Energy Centre that supplies heat to Places Leisure Eastleigh and now the Hendy Car Showroom.
- There is a reduction in fuel consumption by our fleet of trucks and maintenance vehicles due to fleet improvements.

6. Measuring and Reporting approach

The majority for this report is created based on the DEFRA "Environmental reporting Guidelines", which includes mandatory greenhouse gas emissions reporting guidance. In response to the Climate and Environmental Emergency the Council has where possible begun reporting emissions related to the climate. In addition to the DEFRA reporting, Tables 1&3 now include reporting for:

- Biomass – Historical data available
- Staff Travel to work – Commuting data based on 2019 staff travel survey, will become annual assessment
- Other GHGs from building use (e.g. F-gases from air conditioning) - Methodology under development
- Procurement – Initial methodology utilised
- Council Land use (carbon Sequestration) - Methodology under development

- Offsets Credits Purchased – None purchased to date

7. Organisational Boundary

We have used the financial control approach as recommended in the guidance to define our organisational boundary. Our scope includes emissions from buildings and transport used for the delivery of our services.

8. Operational Scope

Table 3 shows what is included in each scope measured in tCO₂e.

| | 2019/20 | 2018/19 | 2017/18 | 2016/17 | 2007/08 |
|-------------------------------------|-------------|--------------|-------------|-------------|-------------|
| Scope 1 (Direct Emissions) | | | | | |
| Gas | 772 | 672 | 573 | 674 | 989 |
| Oil | 0 | 4 | 4 | 4 | 29 |
| Fuel | 1053 | 1098 | 1002 | 1112 | 1017 |
| Total | 1825 | 1774 | 1579 | 1790 | 2035 |
| Scope 2 (Indirect emissions) | | | | | |
| Electricity | 370 | 453 | 640 | 783 | 743 |
| Street Lighting | 14 | 15 | 19 | 22 | - |
| Water | 12 | 16 | 16 | 15 | 11 |
| Biomass | 11 | 10 | 15 | 5 | 9 |
| Total | 407 | 494 | 690 | 825 | 763 |
| Scope 3 (Indirect other) | | | | | |
| Business Travel | 32 | 35 | 20 | 39 | 104 |
| Staff Travel to work | 8 | - | - | - | - |
| Other building GHGs | - | - | - | - | - |
| Procurement | 5347 | 8270 | - | - | - |
| Total | 5387 | 8305 | 20 | 39 | 104 |
| Total gross emissions | 7619 | 10573 | 2280 | 2654 | 2902 |
| Credits | | | | | |
| Green Tariff | 265 | 272 | 390 | 469 | - |
| PV Export Only | 67 | 61 | 60 | 81 | - |
| Council Land Use | - | - | - | - | - |
| Offset Credits Purchased | 0 | 0 | 0 | 0 | 0 |
| Total | 332 | 333 | 450 | 549 | 0 |
| Total net emissions | 7287 | 10240 | 1830 | 2105 | 2902 |

Table 3 - Breakdown of Scope 1,2 & 3 tCO₂e (not weather corrected), Items with * have been added as part of the new Climate and Environmental Emergency Methodology

The CO₂e conversion factors used in calculating the GHG have been taken from the DEFRA web based tool “Government conversion factors for company reporting”.

The figures have not been weather corrected.

9. Geographical Breakdown

All Eastleigh Borough Council's activities are in the UK.

10. Targets

The Council has declared a Climate Emergency and will put in place measures to ensure that the Council's own operations and functions achieve carbon neutrality by 2025.

11. Base Year

The Council will continue to report against DECC baseline year for 2007/08, however the target for Net Zero will be based on 2018/19.

Since last years reported figures no recalculation of the baseline has been made due to the sale or acquisition of Council properties.

12. Intensity Measurement

We have chosen the intensity measurement of tCO₂e per full time equivalent (FTE) member of staff and per £M income as most relevant to local government. The intensity measure has been applied to both the CEE and DEFRA model for reporting.

| CEE Method | 2019/20 | 2018/19 |
|----------------------------------|---------|---------|
| tCO ₂ e per FTE | 15.21 | 23.08 |
| tCO ₂ e per £M income | 108.61 | 148.38 |

| DEFRA Method | 2019/20 | 2018/19 | 2017/18 | 2016/17 | 2015/16 |
|----------------------------------|---------|---------|---------|---------|---------|
| tCO ₂ e per FTE | 4.01 | 4.41 | 4.29 | 4.68 | 4.37 |
| tCO ₂ e per £M income | 28.64 | 28.38 | 21.21 | 35.02 | 30.25 |

13. External Assurance Statement

The Council has not received independent external assurance over our reported emissions.

14. Carbon Offsetting

The Council has not purchased any carbon offsets.

15. Green Tariffs

The Council purchases green energy for most of its sites from EDF, as of the start of 20/21 all sites are now on a green electricity tariff. We are also looking at an option for Green Gas.

16. Electricity Generation

The Council began a programme of installing solar PV in 2011 and this year generated a total of 348MWh across its whole portfolio.

| | 2019/20 | 2018/19 | 2017/18 | 2016/17 | 2015/16 |
|--------------|---------|---------|---------|---------|---------|
| kWh Consumed | 87,736 | 133,152 | 130,938 | 114,357 | 120,119 |
| kWh Exported | 260,642 | 215,081 | 171,503 | 196,020 | 200,456 |

| | | | | | |
|------------------------|----------------|----------------|----------------|----------------|----------------|
| Total Generated | 348,378 | 348,233 | 302,441 | 310,377 | 320,575 |
|------------------------|----------------|----------------|----------------|----------------|----------------|