

City of Bradford Metropolitan Council Greenhouse Gas Report 2017-18

Background

Bradford Council operates a diverse array of public services serving a population of over half a million citizens. The Council is committed to reducing its overall carbon emissions by 40% using 2005 as a baseline year and is also participating in the UK Carbon Reduction Commitment (CRC) - an energy efficiency scheme to reduce emissions from heat and electricity. The scope of this report is much wider than the CRC; including schools, transport, travel, street lighting and additional greenhouse gases such as nitrous oxide and methane. These are included in the totals and are expressed as CO₂ equivalents (CO₂e).

Our emissions are listed under 3 scopes;

- **Scope 1** – directly produced emissions
- **Scope 2** – indirectly produced emissions
- **Scope 3** – emissions outside our control but associated with our activities

Our Greenhouse Gas Footprint

In this report we have looked at the emissions associated with activities within our financial control or in the case of schools within financial administration.

Table 1 City of Bradford Metropolitan District Council GHG emissions 2009 - 2016

| Year | | 2009-2010 | 2010-2011 | 2011-2012 | 2012-2013 | 2013-2014 | 2014-2015 | 2015-2016 | 2016-2017 | 2017-2018 | |
|--------------------------------------|-----------------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|--|
| | | Kilograms CO2e | | | | | | | | | |
| Scope 1 emissions | | | | | | | | | | | |
| | Owned Transport | 7,759,214 | 7,511,394 | 6,727,393 | 6,386,688 | 6,313,332 | 6,305,810 | 5,973,493 | 6,083,228 | 6,199,796 | |
| | Industrial Coal | 948,619 | 163,555 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Gas Oil* | 2,601,099 | 2,307,426 | 1,265,792 | 492,487 | 175,973 | 266,716 | 274,507 | 369,706 | 229,687 | |
| | Kerosene | 0 | 0 | 0 | 78,395 | 0 | 0 | 82,313 | 9,002 | 6,510 | |
| | Wood pellet | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | Wood Chip | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6,942 | |
| | Gas | 26,309,975 | 29,363,398 | 25,739,719 | 30,600,586 | 28,022,736 | 27,578,414 | 24,837,004 | 20,465,524 | 13,565,990 | |
| | Liquid gas | | 0 | 994 | 0 | | | 3,792 | 4,625 | 1,106 | |
| | Total | 37,618,907 | 39,345,773 | 33,733,898 | 37,558,157 | 34,512,041 | 34,150,940 | 31,171,109 | 26,932,086 | 20,010,031 | |
| Scope 2 emissions | | | | | | | | | | | |
| | Purchased electricity | 44,657,272 | 45,104,181 | 44,015,439 | 46,013,831 | 45,400,193 | 44,188,680 | 40,174,914 | 35,630,439 | 22,946,749 | |
| Scope 3 emissions | | | | | | | | | | | |
| | Business travel | 2,489,765 | 1,150,740 | 1,268,392 | 1,259,203 | 995,216 | 1,183,832 | 1,040,607 | 983,033 | 930,926 | |
| | Transmission losses | 3,535,974 | 3,632,053 | 3,761,346 | 3,634,935 | 3,881,865 | 3,864,029 | 3,316,979 | 3,222,780 | 1,956,071 | |
| Total emissions (Tonnes CO2e) | | 88,302 | 89,233 | 82,779 | 88,466 | 84,789 | 83,387 | 75,704 | 66,768 | 45,844 | |

* Buildings only

Emissions released directly through fossil fuel combustion such as motor vehicles or boilers are shown under Scope 1. Indirect emissions released by generating electricity are listed under Scope 2. Business travel is a significant release of emissions which includes rail and air travel

as well as travel in private vehicles owned by staff. Because the assets are not owned by the Council these emissions are listed under Scope 3. Also under Scope 3 are electricity transmissions losses from the national grid for which we have no direct control over.

What haven't we reported?

This report does not include fugitive emissions from air conditioning units or refrigeration units due to lack of data. We have included schools emissions from gas and electricity where data is available however this report does not include emissions from schools that have moved to academy status or free schools. There are some discretionary (Scope 3) emissions that have been left out of this report. These are;

- Emissions arising from our supply chain of goods and materials e.g. fuel used delivering supplies
- Staff travel to their workplace,
- Domestic energy used by staff working at home
- Emissions from waster to landfill