

City of Bradford Metropolitan Council Greenhouse Gas Report 2016-17

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
		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
	Industrial Coal	948,619	163,555	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
	Kerosene	0	0	0	78,395	0	0	82,313	9,002
	Wood pellet	0	0	0	0	0	0	0	0
	Wood Chip	0	0	0	0	0	0	0	0
	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
	Liquid gas		0	994	0			3,792	4,625
	Total Scope 1	37,618,907	39,345,773	33,733,898	37,558,157	34,512,041	34,150,940	31,171,109	26,932,086
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
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
	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
Total emissions (Tonnes CO2e)									
	Tonnes	88,302	89,233	82,779	88,466	84,789	83,387	75,704	66,768

* 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