

Borough of Poole Carbon Management Programme:



'Towards a Low Carbon Poole'

On 31 January 2011, the Department of Energy & Climate Change (DECC) requested views from local authorities on a way forward on sharing information on greenhouse gas emissions from local authority own estate and operations.

In response to the comments received, DECC revised the previous request (made under National Indicator (NI) 185)) to take into account a number of issues, such as:

- ensuring the data collection and publication is in line with international reporting standards
- reducing the burden of data collection on local authorities partly through aligning the data with the CRC Energy Efficiency Scheme
- aiming to embed accountability for local authorities' own carbon emissions at local authority level

DECC signed a Memorandum of Understanding (MOU) with the Local Government Association (LGA, formerly the Local Government Group) on 9 March 2011 to recognise the pivotal role local authorities have in reducing emissions at the local level. The first milestone in the Annex to the MOU was to develop and agree an approach for sharing information on greenhouse gas emissions from councils' own estate and operations.

DECC and the LGA agreed and signed an updated MOU in July 2013 that recognises councils have a unique insight and reach into communities and can ensure carbon reduction policies and programmes benefit communities and protect the most vulnerable.

Gregory Barker, the then Minister of State for Climate Change, wrote to Chief Executives of authorities in England on 14 April 2014 requesting that authorities measure and report emissions data for the 2013-14 financial year and future financial years until future notices, resulting in this, the Borough of Poole's fifth annual emissions report.

The Council and the Management Team are committed to playing a leading role in tackling climate change in Poole. The Borough of Poole Corporate Strategy 2012-2015 declares protecting and enhancing Poole's natural and built environment and reducing Poole's carbon footprint as one of its key corporate priorities. The Council recognises that it must lead residents, businesses and public sector partners in partnership to adapt to our changing climate and reduce CO₂ emissions in Poole.

The Council signed the Nottingham Declaration on Climate Change in 2006, and takes its commitment to significantly reduce our carbon emissions very seriously. One result of this commitment was the decision to take part in the Carbon Trust's Local Authority Carbon Management Programme. Participating in the programme ensured that the Council took planned and practical steps to reduce its own impact on our changing climate. In the years 2009-2013 the Borough of Poole reduced CO₂ emissions by 17% from a 2008/9 baseline.

The measures outlined as part of the Carbon Management Programme in 2009 have been completed and the Council is well on the way to setting its own house in order, in line with UK Government Climate Change ambition. With that in mind the Council decided to fulfil its local leadership role and increase its focus on Borough-wide emissions.

To reinforce the Council's commitment to tackling Poole's Carbon Footprint the Council joined the Covenant of Mayors on 24 April 2012. The Covenant is an European Union initiative with more than 5,000 signatories worldwide and only 33 in the UK. In signing the Covenant the Council committed to bettering the EU target of a 20% reduction in Borough wide emissions by 2020. A target was set that:

The Borough of Poole will reduce Borough-wide emissions by 30% from a 2005 baseline.

The Borough's plan for reducing emissions in Poole is detailed in the Borough's Sustainable Energy Action Plan (SEAP), available on the Borough's website. The SEAP gives an indication of some of the projects which will be implemented to meet this objective. To help develop and deliver the SEAP and support the Carbon Management Programme's work the Council instigated the Poole Environment Partnership.

“Poole Environmental Partnership is committed to caring for the environment and the principle of sustainability. Our vision of Poole is of a beautiful place to live, work, learn and play that we take pride in passing on to future generations. To achieve our vision we will work together to integrate the principles of sustainability across all our activities and encourage others to do the same.”

Poole Environment Partnership Mission Statement October 2012

The partnership's role is to develop, deliver and review projects to achieve and surpass the Covenant of Mayors objectives. The development and delivery of projects is overseen by four themed action groups. These projects are sanity checked and their progress reviewed by the PEP management board.

Projects update

Since the last emissions report much work has taken place to finalise the Borough's Sustainable Energy Action Plan; setting Poole's vision to reduce Borough-wide Carbon emissions by 2020. There have been a number of projects developed from this SEAP which are ongoing to drive energy use reduction in Poole.

Green Positive Environment Action scheme



The Green PEA scheme, the Borough's innovative service for businesses, schools and community groups, is expanding after being successfully licensed to Christchurch and East Dorset Partnership. There are now 57 members of which 12 have proceeded beyond level 1 of the scheme. The combined 10 year savings of the actions implemented are more than £165,000 and 1097tCO₂. The success of the scheme has led to Green PEA achieving a Green Apple Award, Runner-Up in the Innovation Awards and a shortlisting for best community initiative at the Regen SW awards. For more information about the scheme visit www.greenpeascheme.org.uk or email greenpea@poole.gov.uk

LoToNo

LoToNo is a cross cluster, cross regional platform to help nurture emerging industries & new business models. The programme will be working across Dorset and Hampshire to show other regions how the same ingredients can be combined in different European regions to support emerging industries to prosper and grow. The Borough of Poole is one of five partners in the ground breaking European Union funded project.

District Heating

The Government is very keen to promote the development of district heating networks across Britain and Poole is keen to play its part in their deployment. Borough of Poole has been awarded funding by the Department of Energy and Climate Change to investigate the possibility of installing heat networks at various sites through out the Borough. The implementation of a heat network will enable a reduction in energy cost and emissions for the areas where it is installed, providing economic benefits for the region.

Solar Multi-Storey Car Park

Borough of Poole has installed a 135kWp Solar Array on the roof of the Civic Centre Multi Storey Car Park. These panels are linked to Electric Vehicle charging points in the Civic Centre Surface Car Park, including one rapid charging point which allows vehicles to be recharged in 40 minutes. When there is no demand from the charging points the electricity generated by the panels is used to supply the Civic Centre, reducing our energy bill. The panels have been in operation since 19 March 2015, in the four months since this date grid energy consumption at the Civic Centre has reduced by 98,725kWh, a saving of around £12,250.



Health and Wellbeing

The Carbon Management Programme has been working with Bournemouth Borough Council and the National Energy Agency (NEA) to conduct work for the Bournemouth and Poole Health and Wellbeing Board on fuel poverty. We have been working with Health professionals to help them identify individuals in Fuel Poverty and direct the necessary support towards them. As part of the work we have refreshing the health and wellbeing board's fuel poverty strategy to support the link between fuel poverty and poor health.

Upcoming Projects

There are a number of exciting and innovative projects in the pipeline to reduce Borough-wide energy emissions, driving down costs and consumption for the Council. These projects will play an important part in achieving the reduction target set out in the Sustainable Energy Action Plan and delivering a low carbon Poole.

Corporate Solar PV



Following the success of the Civic Centre MSCP Solar project Borough of Poole is now looking to install solar across its portfolio. The Council has authorised expenditure of up to £1.5million to install panels on to the 18 council owned buildings in Poole. This is expected to deliver between £76,000 and £166,000 of net gains to the Borough's Medium Term Financial Plan and reduce CO₂ emissions from the Borough's activities by 412 tonnes of CO₂ per annum.

Energy Performance Contracts

The Borough of Poole is currently exploring the possibilities of utilising an Energy Performance Contract to delivery large scale energy efficiency improvements to the Civic Centre. The contract works by providing a guarantee of the savings to be delivered by the installation of a particular technology and the technology being installed at no upfront cost to the Council. The costs are then paid back via the savings over an agreed period. This means that the technologies can be installed at little to no risk to the Council. We are hoping that the installation of these technologies will reduce the Civic Centre's energy emissions by around 25%.



Energy Supply Company

Borough of Poole is keen to explore the opportunities afforded to local authorities by the general power of competence. As part of this, officers are investigating the prospect of creating an energy supply company to provide energy to local residents. This could provide a market for any excess renewable energy generated by the Solar PV. This could also support Borough of Poole's fuel poverty aims by providing a lower cost energy option for residents.

Enerships

Borough of Poole has been working with Bournemouth University and European partners to bid for funding under the Horizon 2020 EU funding scheme. The funding from the Enerships bid, if awarded, will support the work of the Poole Environment Partnership, sharing the PEP model with European Municipalities and enabling joint working and knowledge sharing.

Poole Tidal Energy Partnership

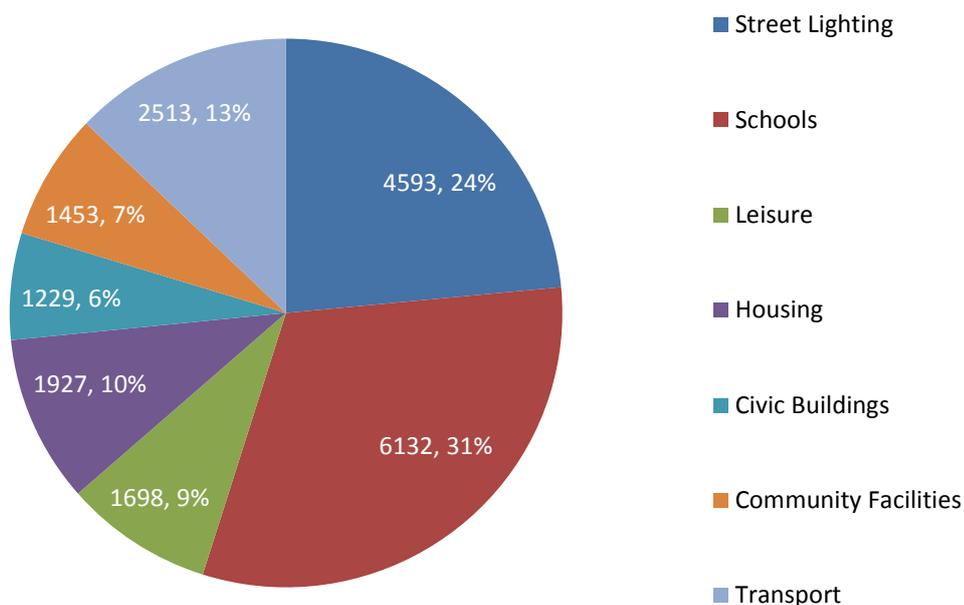
The Poole Tidal Energy Partnership has been founded as a community interest company designed to support and promote the generation of renewable energy from Poole Harbour. The partnership is currently searching for a location to showcase water source heat pump technology, utilising the large body of water that is available as an energy source for Poole.



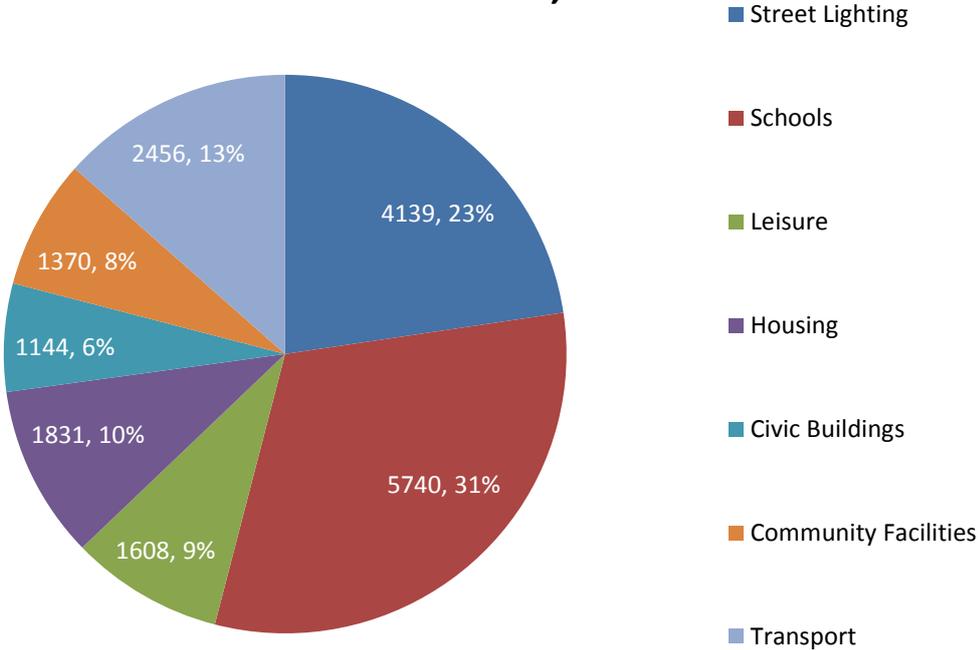
Breakdown of Council's Emissions by Activity

To assist in the understanding of the Greenhouse Gases Report we have provided a breakdown of the emissions by service (Community Buildings include Public Conveniences, Homes and Day Centres, Children/Youth Centres, Museums and Libraries). Each year Government updates the conversion factors used to calculate CO₂ emissions from the base figures (kWh for electricity and gas, litres for liquid fuels such as petrol and diesel). This year has seen a considerable increase in the CO₂ emitted per kWh of electricity. Therefore we have included a pie chart calculating the emissions for this year using last year's conversion factors to show that energy use has fallen despite the reported emissions increase.

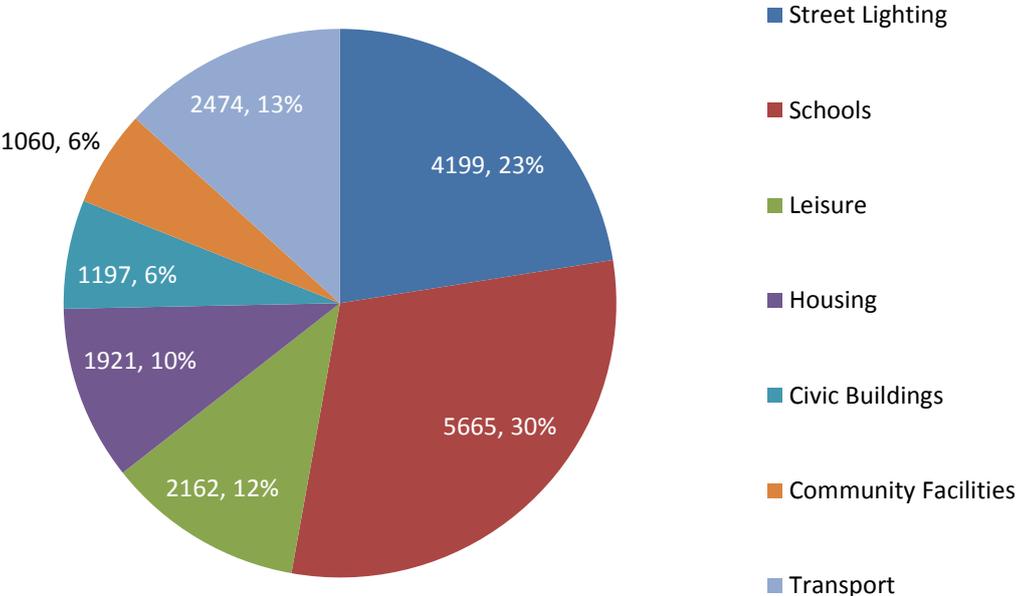
Council Emissions 2014/15 (tCO₂) Total = 19,544



Council Emissions 2014/15 (tCO₂) using 2013/14 conversion factors Total = 18,288



Council Emissions 2013/14 (tCO₂) Total = 18,678



Greenhouse Gases Report

GHG emissions data for period 1 April 2007 to 31 March 2015				
	Global tonnes of CO ₂ e			
	Scope 1 ¹	Scope 2	Scope 3	Total
Base Year 2007/8	8,470.138	13,268.714	1,040.034	22,778.886
2008/9	9,746.211	14,403.483	1,036.985	25,186.679
2009/10	8,695.374	13,912.646	923.899	23,531.919
2010/11	8,715.245	13,349.008	860.813	22,925.066
2011/12	8,955.012	15,167.355	615.560	24,737.927
2012/13	8,800.396	11,485.633	362.920	20,648.949
2013/14	7,905.233	10,781.546	248.009	18,934.788
2014/15	6,461.451	12,742.880	339.917	19,544.248

	GHG emissions 2014/15 in tonnes of CO ₂ e	Specific exclusions and % this represents for the relevant scope
Scope 1		
Gas consumption	4,888.692	
Other fuels burnt	0	
Owned transport	1,572.759	
Fugitive ² emissions	0	These represent less than 0.5% of the council's emissions and have not been recorded.
Total scope 1	6,461.451	
Scope 2		
Purchased electricity	12,742.880	
Total scope 2	12,742.880	
Significant Scope 3³		
Business travel	339.917	
Total scope 3	339.917	

Supporting Explanations

1. The Borough of Poole is a Unitary Authority with main offices at the Civic Centre, Poole, Dorset, BH15 2RU employing around 5,000 people
2. This report covers the period 1 April 2013 – 31 March 2014
3. We have followed the Government's guidance on how to measure and report our Greenhouse Gas emissions.
4. We have used the financial control⁴ method to determine our organisational boundary.
5. We have measured our scope 1, scope 2 emissions and our business travel emissions
6. Our base year in 2007/8 which we set using a fixed base year approach as part of the Council's participation in the Carbon Trust's Carbon Management Programme.

For Further Information please contact:

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¹ Scope 1 emissions are from fuels burnt by the Borough of Poole, i.e gas for heating or fleet fuel consumption. Scope 2 emissions are from the generation of electricity used by the Borough of Poole and Scope 3 emissions are from things not directly under the control of the Borough i.e business mileage.

² Fugitive emissions are emissions from leaks, eg. Air Conditioning/Refrigeration leaks

³ Due to record keeping methods contractor emissions have been included in Scope 1

⁴ The financial control method assigns the Council's organisational boundary as operations over which the council has the ability to direct the financial and operating activities of.