

Carbon Action Plan for the city of Portsmouth

Calendar Year 2019

Abbreviations & acronyms

Abbreviation or Acronym	Definition
BaU	Business as Usual
CAP	Carbon Action Plan (this document)
CO ₂ e	Carbon Dioxide Equivalent
GHG	Greenhouse Gas
HVO	Hydro-treated Vegetable Oil
LED	Light-emitting Diodes
PCC	Portsmouth City Council
t	Tonnes

Introduction

This Carbon Action Plan (CAP) is the first annual report detailing carbon emissions from the city of Portsmouth. This CAP describes the methods used, historical and current emissions, actions Portsmouth City Council (PCC) are taking, and a projection of future emissions. It is supported by the overarching Climate Change Strategy which details PCCs guiding principles and strategic priority areas.

Throughout this CAP, the term “carbon” is used but it is an umbrella term that refers to many greenhouse gasses (GHGs). These GHGs are converted to one measure, called “carbon dioxide equivalent” or “CO₂e”.

This CAP provides the GHG inventory for the calendar year 2019 and the corresponding carbon reduction actions refer to those that have been implemented during this financial year or are planned to be implemented by PCC. Actions included within this CAP are correct up to December 2022. New actions after this time will be included in future iterations of this CAP.

Methodology

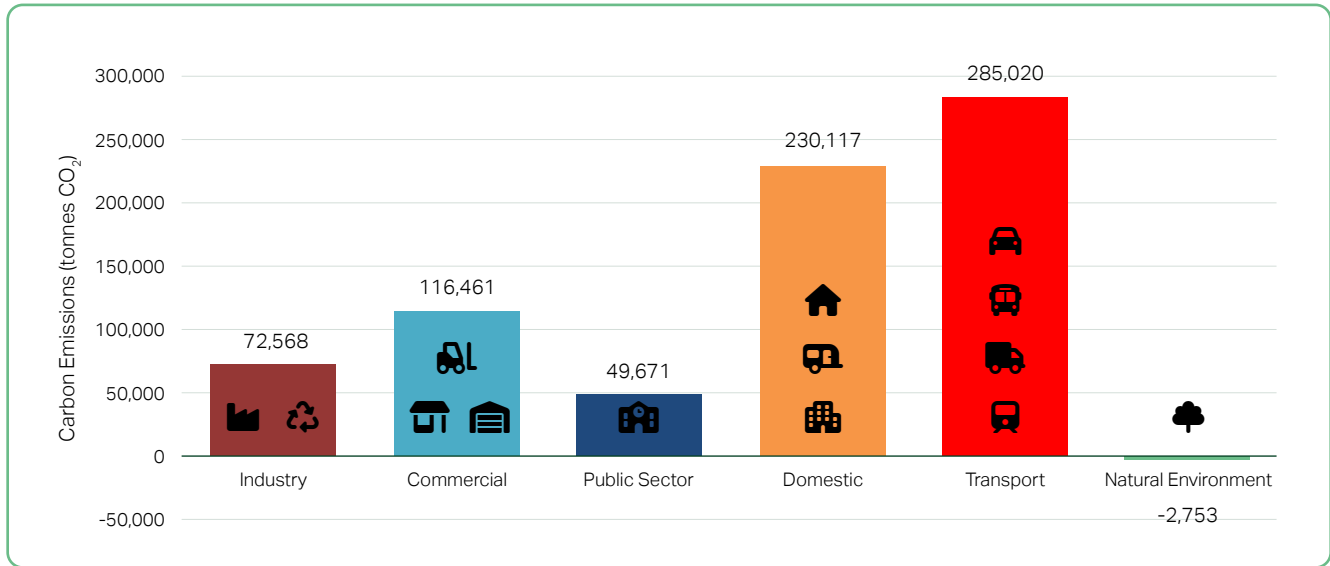
The first half of this CAP describes current and historical carbon emissions. City-wide GHG emissions data has been sourced directly from the UK local authority and regional carbon dioxide emissions national statistics¹.

The second half of this CAP describes future projections of carbon emissions which are based upon a baseline projection called “business-as-usual” (BaU) which we use to test the impact of new carbon reduction actions.

¹ BEIS (2021) 2005 to 2019 Local Authority Carbon Dioxide (CO₂) Emissions Dataset (revised). Available: <https://data.gov.uk/dataset/723c243d-2f1a-4d27-8b61-cd-b93e5b10ff/uk-local-authority-and-regional-carbon-dioxide-emissions-national-statistics-2005-to-2019>

Portsmouth City GHG Emissions Inventory 2019

Current Carbon Emissions from 2019

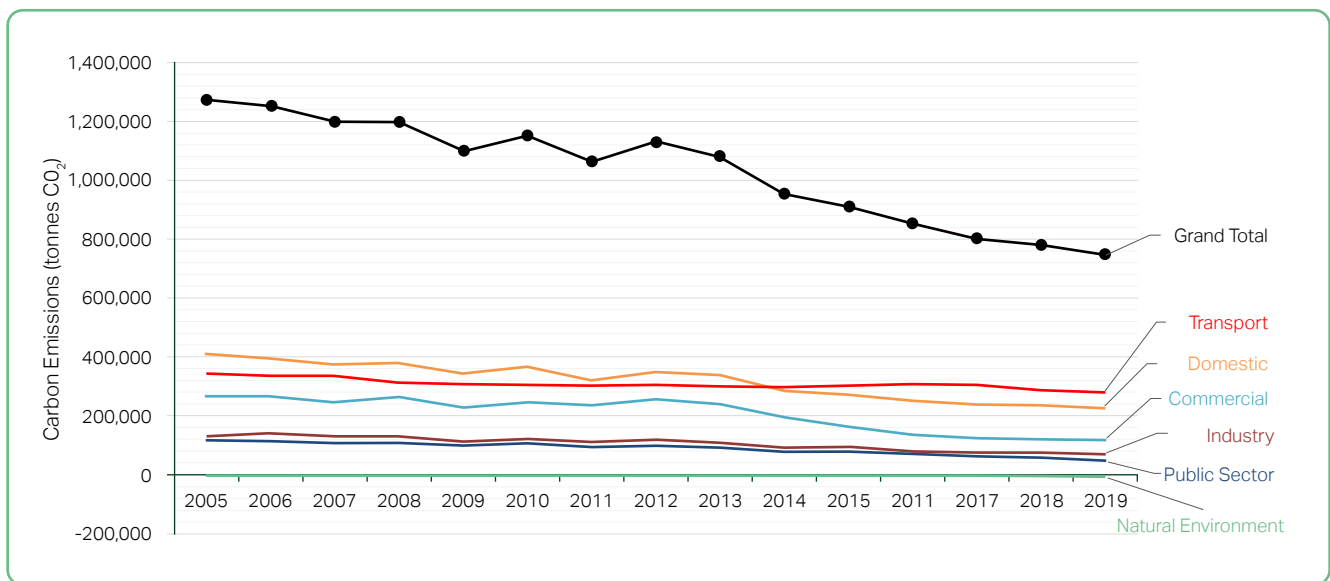


Portsmouth's net emissions for 2019 were 751,084 tCO₂e

In 2019, we increased the carbon stored in the ground and vegetation by 2,753 tCO₂e

Travel is the greatest source of carbon emissions in Portsmouth, contributing 38%

Historical Carbon Emissions from 2005-2019



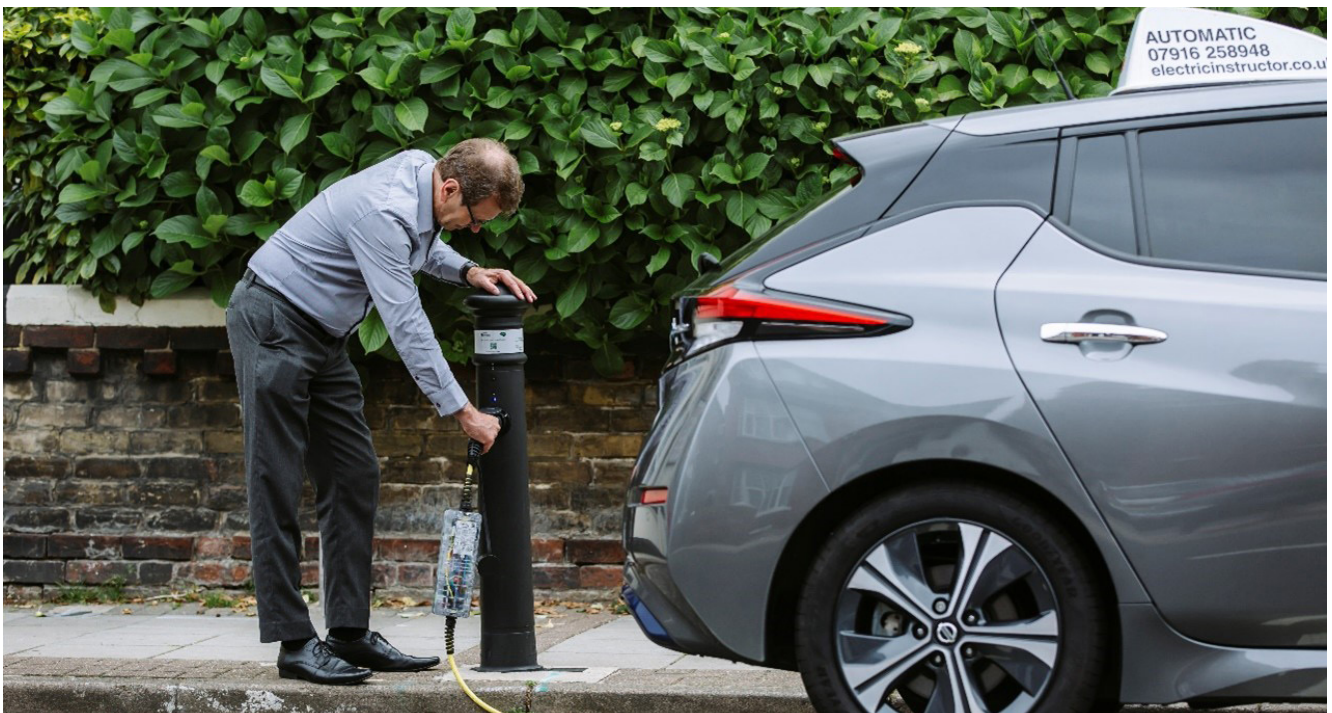
Emissions have reduced by 525,150 tCO₂e - a 41% decrease from 2012

Emissions have decreased by 4% from 2018







Transport is the hardest sector to decarbonise

Carbon Reduction Actions Undertaken in 2019

- 36 on-street residential **electric vehicle charging points were installed**, enabling more lower carbon transport options
- Four sites were provided with **carton collection banks** enabling recycling of these wastes.
- The first phase of food waste collection began, sending over 400 tonnes to an anaerobic digester.



Stocktake of Carbon Reductions Actions Planned from 2019 to 2030

Industry Sector							Average Yearly Impact
Carton recycling banks	Kerbside food waste collection	Kerbside battery collection	Plastic recycling banks				- 58 tCO ₂ e
Commercial Sector							Average Yearly Impact
No existing carbon reduction actions							0 tCO ₂ e
Public Sector							Average Yearly Impact
Installing solar panels on PCC buildings	Replacing PCC-owned and leased vehicle fleet with electric vehicles	Replacing paper flyers for QR PCC event codes to reduce paper and printing	PCC architects became Passivhaus certified designers, accreditation for low-carbon building				- 248 tCO ₂ e
Domestic Sector							Average Yearly Impact
Solar panels	Heat pumps	Insulation	Smart heating controls	LED light bulbs	Draught-proofing devices		- 158 tCO ₂ e
Transport							Average Yearly Impact
Zero emissions taxi licensing requirements for the Clean Air Zone	South-East Hampshire Rapid Transit (bus lanes, cycling and walking paths)	On-street electric vehicle charge points					- 5,992 tCO ₂ e
Car club	Conversion of refuse collection vehicles to HVO fuel	East-west cycling corridor					
Expanded Park and Ride services	Active Pompey Neighbourhoods	Breeze App					
E-scooters	School Streets	Beryl Bikes					
Natural Environment							Average Yearly Impact
Annually, at least 360 more trees will be planted in our parks and 120 more in streets.							- 33 tCO ₂ e

This year's City CAP is a stocktake of where we are now and where we will be with what PCC have committed to. Future CAPs will endeavour to improve the quality and completeness of data, and design and implementation new carbon reduction actions.