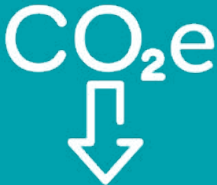



# Bristol City Council Corporate Environmental Performance Summary 2022-23

## 2022-23 Highlights

We calculated our scope 1 and 2 carbon emissions for the year – a total of **6,816 tonnes CO<sub>2</sub>e**, reduced by **2,329 tonnes** from last year



1 MWp rooftop solar array installed on TBY2 film studios, comprising of **2,300 solar panels**




**BRISTOL city leap** City Leap partnership began operating which will see over **£1 billion investment** into the city

Over **14,000 trees** planted under the One Tree per Child Project



Our renewable energy generation assets, which include solar arrays and a wind turbine, generated enough electricity to avoid **2,677 tonnes CO<sub>2</sub>e**




Climate Change Awareness e-learning training made mandatory for all staff



61% of staff in our two main offices (Temple Street and City Hall) used **active or sustainable travel** to get to work (walking, cycling or taking a bus or train.)



Our Parks teams take part in **'No Mow May'**. This allows wildflowers to grow, providing important early summer food for insects and wildlife



## 2022- 2023 In more detail

Bristol City Council has declared a climate and ecological emergency. In 2019, we set an ambitious target within the Mayor's Climate Emergency Action Plan for Bristol City Council to be carbon neutral for the emissions directly under our control by 2025. This means we will reduce as much as possible the emissions that occur as a direct consequence of our operations. This report includes our carbon performance this year in relation to this ambition.



In January 2023, the world-first Bristol City Leap partnership was launched. This will see over £1 billion of investment secured to help make Bristol carbon neutral. The partnership will initially deliver £424 million investment and avoid around 140,000 tonnes of carbon emissions across the city over the first five years of the twenty-year partnership. The partnership has already begun to assess what efficiency and carbon reduction works can be done on our own buildings and operations.

**BRISTOL**  
city leap

We completed a full update of the **Climate and Ecological Action** web pages. These now include detailed information about our actions under all our climate priorities.

In 2023, our online **Climate Change Awareness Training** became mandatory to all staff. By March 2023, 670 members of staff had completed the e-learning module with overwhelmingly positive feedback on the course.

Our **business travel policy** was updated in late 2022 to ensure staff members prioritise using active travel or virtual attendance



## Climate Emergency - Carbon Reduction

**We aim to be carbon neutral for the emissions directly under our control by 2025. Our carbon footprint as an organisation is the sum of all the emissions we emit when delivering our services. This includes emissions from heating buildings, driving vehicles and buying things. Emissions can be put into 3 categories – scope 1, 2 and 3. We are working towards classifying our emissions in this way and quantifying our scope 3 emissions. As last year, rather than give one figure for our total emissions, we have separated out and quantified our total scope 1 and 2 emissions. Our total scope 1 and 2 emissions for 2022/23 were 6,816 tonnes of CO<sub>2</sub> equivalent (CO<sub>2</sub> e).**

We are the first local authority to have the type of energy sleeving arrangement where we can use the electricity we generate from our own wind turbines and solar farm to supply around a third of our own electricity demand.

We hope to be able to develop the sleeving arrangement further in future. This will allow us to provide more of our electricity demand from locally generated renewables.

We have continued work to convert our fleet of vehicles to electric and more efficient vehicles. The battery electric fleet has increased from 12% of the total to 18%. These vehicles travelled an average 3,180 miles per year. We have also increased our hybrid fleet from 10% to 17% of the fleet. Battery and hybrid electric vehicles combined now make up 35% of the fleet.

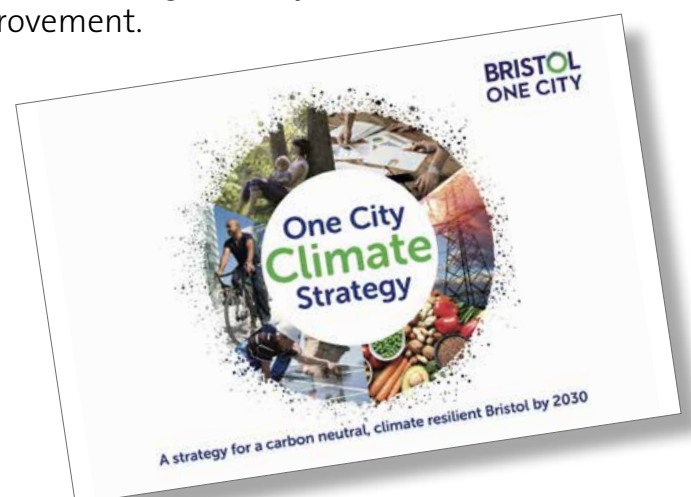
**Scope 1** - Carbon that is emitted directly from our vehicle fleet and gas usage, including in heating our buildings

**Scope 2** - Carbon that is emitted from electricity usage including streetlighting and lighting our buildings

**Scope 3** - Carbon that is emitted from the supply chain of goods and services we procure, and the waste we generate

We have improved the process by which key decisions taken by Cabinet are assessed for environmental impacts. The process now assesses and considers more accurately environmental impacts alongside other corporate objectives from the earliest part of project planning. The improved process goes live in Summer 2023. The environmental impact assessment process is part of our environmental management system which ensures legal compliance and continual improvement.

We have continued work to quantify our Scope 3 emissions, including holding a number of cross-departmental working group sessions which helped to generate a roadmap of how to fully account for all of our scope 3 emissions. We have also begun engaging with selected suppliers on how to quantify the carbon emissions arising from contracted goods and services that we purchase.



## TBY2 - The Bottle Yard's state-of-the-art second film studio facility.

In 2022, we opened TBY2 - The Bottle Yard's state-of-the-art second film studio facility. It is powered by a gigantic 1 megawatt peak (MWp) rooftop solar array consisting of more than 2,300 photovoltaic (pv) panels.

Funded by the Bristol Energy Cooperative, it's believed to be the biggest community-owned solar rooftop array in the UK. Energy produced at TBY2 will power the facility and over time, surplus energy will be utilised through the Bristol City Leap sleeved pool electricity supply model.



## Improving the sustainability of our capital project work

We piloted a framework for improving the environmental performance of our capital projects (for example building new homes and transport infrastructure projects). The framework includes a set of sustainability activities for projects to carry out to influence decision making. Feedback from the pilot was positive and we are now updating the framework based upon the findings and will phase in usage on our projects.



## Looking forward to 2023/24

- Bristol's Local Plan published with robust sustainability policies
- Bristol City Leap decarbonisation works on our estate will begin with working groups established around themes
- Accelerating electrification of our fleet
- Participation in Bristol's Carbon Neutrality Transition Team

**BRISTOL**  
CLIMATE HUB

**BRISTOL**  
CLIMATE ACTION



# Appendix

This report covers our scope 1 and 2 emissions. We are committed to quantifying our scope 3 emissions and made an initial assessment of these in 2020. Our scope 1 and 2 emissions are measured from emissions that come from our estate and operations over which we have direct control. These include our offices, libraries, museums, children’s homes, our elderly persons home, highways street lighting, our public mortuary, our two crematoria and our fleet. Schools are excluded from this figure as we do not have direct operational control over schools. Our reporting methodology follows Defra’s environmental reporting guidelines. All figures are expressed in carbon dioxide equivalent (CO<sub>2</sub> e) and government conversion factors are used where available. Scope 1 & 2 reported data is compiled of all available data at the time of publishing, actual figure may differ slightly.

	2022/23	2021/22
Scope 1 and 2 Total CO <sub>2</sub> e	6,186 tonnes CO <sub>2</sub> e	9,145 tonnes CO <sub>2</sub> e

## Energy generation

We own and operate a wind turbine, solar farm and have installed multiple solar photovoltaic arrays on our buildings. Generation of electricity and heat from this renewable energy is shown in the table. Figures are expressed in gigawatt hours (GWh).

	2022/23	2021/22
Generated Electricity Total	2,677 GWh	3,168 GWh
Generated Heat Total	508 GWh	293 GWh

### Proportion of energy generation 2022/23

