



BRISTOL CLIMATE ACTION



Bristol City Council Climate Emergency Action Plan 2022-2025

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Foreword

The Climate Emergency and the required speed and extent of action means we all need to play our part and coordinate with others. This action plan describes what Bristol City Council is doing to lead the way to a carbon neutral Bristol and adapt to the impacts of climate change. We want to inspire others by reducing the greenhouse gas emissions within our control. We also want to help the city make progress in areas of work where we are the lead body or can convene and engage with people to make action happen.

Our action so far

With partners, we produced an ambitious One City Climate Strategy which sets out a framework for a carbon neutral and climate resilient Bristol by 2030.

We're leading on heat decarbonisation by creating the £1billion City Leap Energy Partnership and extending our district heat network. We're working to reduce emissions from our operations and developing tools that will enable the city to be more resilient to overheating. We're

sharing stories of people tackling climate change and offering grant funding to community groups for climate and nature action. We're championing the huge opportunity for investment in a low carbon economy and encouraging this to be directed to Bristol. We're developing our Bristol Avon Flood Strategy to protect homes and businesses in the city centre from flooding, supporting major coastal defences and wetland creation through the Avonmouth and Severnside Ecology and Flood Defence Project and building flood resilience into the River Frome catchment.

Council action alone will not be enough. We know this is a fraction of the work the One City Climate Strategy demonstrates is necessary for Bristol to be carbon neutral and climate resilient by 2030. To achieve this, the capital cost for heat and transport infrastructure alone would be around £9 billion - a factor outside our direct control.

Although there are uncertainties around national and international action, I'm certain the transformation we want by 2030 will benefit everyone. Building

improved transport and energy networks and insulating homes will create jobs in manual and service industries. A mass transit system and improved air quality will be beneficial for our health. The investments coming will improve our lives. Approaching this work with fairness and the need for a 'just transition' at the front of our minds is essential. The transition will just not happen without that.



Councillor Kye Dudd, Cabinet Member for Climate, Ecology, Waste and Energy

1. Introduction

We know that climate change is already happening in the UK, with the first two decades of this century the warmest 20-year period in 300 years ¹, and the summers of 2018 and 2022 the hottest since records began in 1884. Extreme weather events are also becoming more frequent, severe and longer in duration. While we will do all that we can to tackle the growth of greenhouse gas emissions, we must also accept the practical need to adapt to the impacts of climate change and the challenges this presents.

IMPACTS
 Cities and towns across the UK are already experiencing the impacts of climate change. The negative impacts of climate change for urban areas may include:

 <p>HEAT Increased energy demand for summer cooling</p>	 <p>SEA LEVEL RISE Increased risk of coastal flooding</p>	 <p>HEAVY RAINFALL Increased risk of river and surface water flooding</p>
 <p>HEALTH Increased risk to health from heat stress</p>	 <p>DROUGHT Risk to water supplies from drought</p>	 <p>DRAINAGE Increased disruptions to urban drainage system</p>
 <p>TRANSPORT Increased disruption to transport due to heat e.g. rail buckling</p>	 <p>ENVIRONMENT Increased risk to biodiversity (plants and animals)</p>	 <p>ENERGY Infrastructure such as gas pipes are at high risk from flooding events.</p>

Met Office UK Climate Resilience Programme: [Bristol City Pack](#)

¹Slingo, J.. (2021) Latest scientific evidence for observed and projected climate change. In: The third UK Climate Change Risk Assessment Technical Report (Chapter 1, page 18)

Purpose

The purpose of this updated plan is to describe the carbon reduction and climate resilience actions Bristol City Council has committed to take in the coming years, most of which are already underway. It does not include the actions which we would like to take but for which we have not yet identified funding. These will be described in greater detail in the next iteration of the plan.

Action plans like this allow us to share what we are doing so everyone can see:

- the action Bristol City Council is taking to tackle the climate emergency
- the level of our commitment to delivering change today and preparing for tomorrow
- our integrated approach to tackling the climate and ecological emergency alongside other city priorities which maximises co-benefits
- the progress we are making at Bristol City Council.

We have successfully delivered our previous action plan – the Mayor’s Climate Emergency Action Plan. The progress that has been made since that plan was published is described below.

We will keep updating our action plans regularly to add the new things we are doing and remove the things that we have completed. We will consult more people on our next plan so that we get more views on the action citizens and stakeholders want us to take.

Work to date

Bristol City Council has been working on climate change for many years, reducing our own emissions, helping the city to reduce its emissions and improving the city's resilience to the impacts of climate change. We have significant commitments to bring down our own emissions and are working towards these, within our financial budget.

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 that we will reduce as much as possible the emissions that occur as a direct consequence of our operations, for example using diesel in our vans, as well as the emissions associated with the electricity that we buy such as the electricity used in the buildings we control. We have projects underway to work towards this commitment.

We also committed to quantifying our indirect emissions and made an initial assessment in 2020. These emissions come from the goods and services that Bristol City Council buys and the works that we commission such as building new transport infrastructure. At the same time, we are reducing them through our new Healthy and Sustainable Procurement Policy and trialling the use of new sustainability criteria for our major projects. Our endorsement of the One City Climate Strategy means that we aim to achieve carbon neutrality for these emissions by 2030, as other city organisations are doing.

Our commitments on climate change are reflected in our new [corporate strategy](#).



Bristol City Council owned wind turbines (2 x 2.5MW) and 1.8MW solar farm at Avonmouth



Electric vans for loan through our EV Centre of Excellence

What Bristol City Council can do

This action plan sets out the things we intend to do now – those things that are our responsibility or where we are best placed to act. It includes the changes we are making to our own operations such as replacing all our streetlighting with low energy LED bulbs, but it also contains the large-scale changes we are making to the city, for example installing around 3.5 miles of segregated bus lanes since 2015. It includes work we are doing in partnership with others like the City Leap Energy Partnership to create investment in low carbon energy infrastructure for the city. It also includes the work we are doing to play our part in the city's climate strategy – the [One City Climate Strategy](#).

We endorsed the One City Climate Strategy and are leading on several elements:

- Heat decarbonisation theme
- Communications and engagement aspect
- Overall coordination of the strategy, via the City Office.
- Building resilience to urban heat (high temperatures and heatwaves)

But the actions to achieve that city strategy are different and bigger than this Bristol City Council Climate Emergency Action Plan. The One City Climate Strategy is a city document commissioned by the One City Environment Board and is not owned by Bristol City Council. The city's strategy has a much greater and wider range of actions which require leadership and action from many more people and organisations. It would not be possible to achieve the city's strategy through Bristol City Council's action plan alone.

This action plan describes our contribution to the much larger city level action.

2. Making progress

We're working on projects to reduce our own emissions as well as projects that will help to reduce the emissions and increase the resilience of the wider city. Some of these actions to support the city were set out in our previous action plan – the Mayor's [Climate Emergency Action Plan](#) and an update on just these actions is included below. There is much more the city council has delivered to help tackle climate change.

One of the most important key actions in that plan was to develop and deliver a One City Climate Strategy, working with City Office partners. Bristol City Council paid for the production of the One City Climate Strategy, published in February 2020. We also funded the associated pieces of research and [evidence](#) upon which the strategy was based. The One City Climate Strategy is now being used as a framework to guide the action and communicate the investment needed to achieve Bristol's climate goals.

The One City Climate Strategy was launched in Spring 2020 just as the COVID-19 pandemic was taking hold. Clearly, the

pandemic has affected everyone's lives. However, Bristol City Council has made good progress in carrying out our existing plans and playing our part in the One City Climate Strategy.

Below is an update on the rest of the progress made against the previous plan. This is given according to the themes of the city's climate strategy and includes a few additional actions that were not foreseen in the previous plan such as the pedestrianisation work resulting from the pandemic.

Engaging with people

- We offered to lead the Communication and Engagement aspect of the One City Climate Strategy, on behalf of the city.
- A key action was to deliver a public engagement programme. In 2020 we launched the [Bristol Climate Hub](#) website which offers personalised suggestions on what people can do to benefit the environment.
- We have ongoing communications guided by the latest environmental communications research focussing on a different area each month. We're celebrating and acknowledging what people across the city are doing. We created and promoted a [series of videos](#) telling the stories of Bristol residents who are doing things that they enjoy that are also good for the climate.
- We are using research to inform our communication, so it is relevant to all Bristol communities.
- Another key action was to train city leaders, councillors and council staff in climate change to enable them to respond to the Climate Emergency in everything they do. We developed our own in-house climate awareness training in 2020 which has been offered to all current Bristol councillors and all Bristol City Council staff. This has now been supplemented with ecological awareness training and more detailed training courses for professionals including buying sustainably.

- Councillor and staff training on the Climate and Ecological Emergencies, including bespoke workshops, continues, led by a dedicated Learning and Development Advisor for climate change.
- We hosted the 24 Hours of Climate Reality event for city partners in 2019. Climate Emergency has also been a regular topic of conversation between city partners at formal and informal meetings including the autumn 2021 City Gathering.
- We funded a [Citizens' Assembly](#) which made recommendations on how to decarbonise the heating of homes
- We continued in January 2022 with our #OneNewHabit campaign which encouraged people to make positive changes for themselves which would also benefit the climate.



Transport

- We introduced a bus gate on Bristol bridge to safeguard public transport routes through the city centre.
- We pedestrianised sections of the Old City, Cotham Hill, Clifton Village and King Street.
- We made improvements to Anchor Road Bus priority and bus stop infrastructure.
- We completed a major reworking of Temple Gate including improvements to walking, cycling and public transport infrastructure.
- We made walking and cycling improvements at Airport Road, Stoke Park Path, Wedmore Vale/Northern Slopes, Old Market, Whitehouse Street, Victoria Park and Mina Road.
- We installed 4 School Streets to improve safety and improve emissions around schools.
- We supported bus operators in the west of England to introduce 99 gas buses.
- We are offering a package of measures to support people and businesses to move away from driving more polluting vehicles as part of the Clean Air Zone.

- We supported the introduction of the m1 metrobus service.
- We created a zero tail pipe emissions delivery hub to consolidate freight deliveries within Bristol city centre. Zedify is now commercially viable and trading in the city, along with a number of other similar distributors.
- We supported e-scooter trials.
- We delivered a Cycling and Walking Infrastructure Plan, Joint Local Transport Plan and Bus Service Improvement Plan with West of England Combined Authority and local authority partners.



Pupil and Bristol City Council Travel Plan officer at a School Streets scheme at Minerva Primary Academy.

Buildings

- A key action was to create the City Leap Energy Partnership to attract £1 billion of investment in the city's energy system. Following a procurement process, we selected Ameresco Limited as our strategic partner to form the City Leap Energy Partnership. This 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.
- City Leap will, amongst other things, deliver energy efficiency measures, renewables and decarbonisation projects to the council's corporate estate reducing our emissions and also delivering energy efficiency and renewable energy measures to the council's social housing.
- We commissioned the Climate Resilient Estate project to describe how our estate could be climate resilient by 2030.

Heat decarbonisation

- The City Leap Energy Partnership will help deliver significant low carbon energy infrastructure at scale including expanding our heat networks and installing heat pumps.

- In addition to establishing the City Leap Energy Partnership, we continue to expand our district heat network at Redcliffe, Old Market, Bedminster, Temple, Ashton Gate, City Centre, Frome Gateway and Spike Island, with numerous buildings connected and a 3 megawatt water source heat pump operating at Castle Park – the largest water source heat pump in the UK. We will continue to explore a wide range of technologies to provide low carbon heat such as extracting heat from old mine workings.
- We have a new council officer dedicated to developing and coordinating our action plan for heat decarbonisation of homes across Bristol.

Electricity

- We offer council officer time to exploring new technologies, plans and investments to support the changes needed to the electricity network to support the One City Climate Strategy.



Hope Rise modular housing in St George

Business

- We co-funded with the West of England Combined Authority an event during the United Nations COP26 climate conference to support businesses to become net zero by 2030. We showcased the organisations with net zero plans and produced videos to inspire more businesses to take action.
- We launched the Bristol Climate Ask – a commitment for organisations to reach net zero by 2030.
- We continue to work with the West of England Combined Authority and alongside neighbouring councils to ensure existing and new funding programmes



Mayor Rees at Conference of the Parties (COP26) in Glasgow

will lead to everyone being able to access the opportunities of a low carbon economy for example through the Green Recovery Fund and the Retrofit Accelerator.

Public services

- A key action was to call on government for increased powers and resources and to lead through national policies and taxation. We raised the need for more resources in our response to the government’s Spending Review in 2021.
- Bristol represents the Core Cities at the government’s newly established Local Authority Net Zero Forum enabling dialogue with government departments on achieving net zero.
- We supported the West of England Combined Authority in the completion of their own Climate and Ecological Strategy and Action Plan which was published in 2022. The priorities within the strategy complement Bristol’s One City Climate and Ecological Emergency Strategies and the ambition for the West of England to be net zero by 2030 matches Bristol’s timescale for being carbon neutral by 2030.

- As outlined in the introduction above, we have made significant reductions to our own emissions. We have also introduced a new [Healthy and Sustainable Procurement Policy](#) and begun to change our accounting practices to better quantify the emissions that come from the goods, services and works that we buy.

Data

- Since 2020 Bristol City Council has reported the city’s emissions to internationally recognised standards through the Carbon Disclosure Project (CDP). In 2020 and again in 2021 Bristol was awarded an ‘A’ rating by CDP making it one of the 95 top-ranking global cities. We have just submitted the data for 2022.
- We continue to account for and publish our own emissions data in our annual corporate [Environmental Performance Summary](#) and within our wider [corporate performance report](#).
- Developed and published the [Keep Bristol Cool Mapping Tool](#).

3. Bristol City Council's Climate Emergency Action Plan

How our action plan links to our corporate strategy

Our recent [corporate strategy](#) reflects that we have declared a Climate Emergency and endorsed the One City Climate Strategy. It includes carbon neutrality and climate resilience priorities within our environment and sustainability theme.

Corporate Strategy Priority ENV1 - Carbon neutral

Carbon neutral is where the carbon emissions of one thing (for example an individual, an organisation, a city or a product) have either been eliminated or balanced by removals of greenhouse gases (including through compensating for those emissions by making equivalent reductions of carbon dioxide in the atmosphere locally or internationally). Our approach as an organisation is to eliminate our carbon emissions as much as possible before considering any balancing through compensation.

We have already halved the council's operational emissions since 2015 and we have set a very ambitious target to tackle the other half - aiming to be carbon neutral by 2025. This is happening through a range of projects and services across the organisation. The development of some of these projects began before we made our 2019 commitment to be carbon neutral by 2025. For example, a particularly significant action is our City Leap Energy Partnership which will be a major contributor to achieving carbon neutrality for our scope 1 and 2 emissions as well as being a contribution to the wider city's carbon neutrality. We also have ongoing programmes for maintenance of streetlights and our buildings and the Budget set in Spring 2022 allocated £19 million of capital funding to help reduce emissions from the council's buildings and fleet. The plan also includes our work on making the homes we own more energy efficient - a total commitment of £97 million over the next few years.

Some of our current projects were proposed in the 2019 action plan and began afterwards; these include our climate emergency training for councillors and staff.

As we have endorsed the One City Climate Strategy, our plan also includes actions that will help the city to achieve carbon neutrality by 2030. Again, many of these relate to long-standing programmes of work such as developing the heat network and installing solar panels on schools. Other projects have been started more recently as part of our £5 million Climate and Ecological Emergency Programme. These include projects to make our procurement and the major projects that we build more sustainable, to further the city's work on sustainable food and to support community climate action. Our action plan includes the elements of the One City Climate Strategy that we lead: heat decarbonisation, communications and engagement and the overall coordination of the strategy.

Work on carbon neutrality is not limited to this priority. Environmental sustainability is a building block of our corporate strategy and tackling the climate and ecological emergencies cuts across all of our work. Some actions arising from other corporate strategy priorities such as the Cleaner Bristol, Lower Carbon Homes and Safe and Active Travel priorities also contribute significantly to the city's carbon neutrality, and we have included these in our action plan. Some of these actions are described against the themes of the One City Climate Strategy in the section below.

Where do our corporate emissions come from?

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. We are working towards classifying our emissions in this way and quantifying our scope 3 emissions.

Scope 1 carbon that is emitted directly from the council's 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 emissions from sources that the council does not own or control, such as business travel, goods and services that we buy and building materials when constructing new council homes.

Bristol City Council Operational Emissions – 2020 - 21

Activities	tonnes CO ₂ e
Buildings	5,832
Highways electricals	3,438
Council fleet	1,200
Business car mileage in employees' own vehicles	331
Total	10,801
Wind and solar electricity and heat generation	4,883

We have many different types of buildings and uses of energy with the largest ones being streetlighting, heating and lighting our offices and operating crematoria.

The city's emissions

Bristol City Council are only responsible for around 0.5% of the city's total scope 1 and 2 emissions. In addition to establishing a baseline and reporting our own emissions, in 2019 we produced a carbon emission [baseline](#) report for the city of Bristol, describing the city's current carbon emissions and where they would be by 2030 if no new actions were taken.

Corporate Strategy Priority ENV 4 - Climate resilience

Our actions here relate to ensuring the delivery of critical services and key functions during severe weather events, near-term actions to provide the right enabling conditions for change and building longer-term climate resilience to major climate risks, especially flooding, storms, drought, and extreme heat.

Our work on nature recovery and tackling the ecological emergency covered in our [Ecological Emergency Action Plan](#) is also

relevant due to the impact of long-term climate stresses on species and habitats.

The particularly significant pieces of work in relation to this priority are the Bristol Avon Flood Strategy, Avonmouth and Severnside Flood Defences, work on the development of planning policies in the Local Plan and the [Keep Bristol Cool](#) project which provides a framework for us and other city partners to carry out work on heat resilience.

We are also developing guidance to ensure that we build in climate resilience when developing our new capital projects, including infrastructure and buildings.

Work on climate resilience is not limited to this priority, tackling the Climate and Ecological Emergencies cuts across all of our work. Numerous actions arising from our Good Growth and Lower Carbon Homes corporate strategy priorities also contribute significantly to the city's resilience and have been included in this plan.

Some of our work spans both lowering emissions and adapting to climate change. For example, our climate emergency training for councillors and staff covers both topics and now also includes how to tackle the Ecological Emergency. The training is part of our environmental management system which is an ongoing part of the way we manage our organisation. Similarly, we are now connecting colleagues so that we can work on and monitor the progress of all our climate neutrality and resilience work and ecological emergency work as a whole.

The progress on climate and ecological emergency is overseen by a strategic board composed of the Chief Executive, Director of Finance, the Cabinet member responsible for climate, ecology, energy and waste and the Cabinet member for finance. This monitoring of Bristol City Council's internal work and progress is separate from the oversight of the One City Climate Strategy, which is led by the One City Environment Board with independent monitoring by the Bristol Advisory Committee on Climate Change.

Why do we need to be resilient to climate change?

In February 2020, we published a [Preliminary Climate Resilience Assessment](#) as part of the evidence base for the One City Climate Strategy. The assessment gathered evidence to look at the risk and sensitivity of Bristol’s physical, social, environmental and economic systems to various climate hazards.

It assessed how the risk to the systems would change over the coming decades. It drew on data from the latest UKCP18 climate projections, particularly two climate scenarios: a medium emissions scenario where global greenhouse gases slow with mitigation and a high emissions scenario where emissions grow unmitigated, leading to more extreme climate change.

Looking at the high emission scenario, by 2080 when today’s school children will be retiring summer rainfall could have reduced by up to 62% while winter rainfall may have increased by up to 51%. Bristol’s coastline could have seen a rise in sea level of 72cm and maximum summer temperatures could have become 8.9°C hotter.

These figures are based on projected change compared to the baseline period of 1981-2000 - see Met Office’s [Bristol City Pack](#).

		2030s	2050s	2080s	
	Summer Average Air Temperature (°C)	+1.0 to +2.2	+1.7 to +3.9	+3.1 to +7.6	↑
	Summer Maximum Air Temperature (°C)	+1.1 to +2.6	+2.0 to +4.5	+3.5 to +8.9	↑
	Winter Average Air Temperature (°C)	+0.7 to +1.6	+1.1 to +2.6	+1.7 to +4.6	↑
	Winter Minimum Air Temperature (°C)	+0.7 to +1.7	+1.2 to +2.9	+1.8 to +5.1	↑
	Annual Average Air Temperature (°C)	+0.8 to +1.6	+1.3 to +2.7	+2.2 to +5.1	↑
	Summer Precipitation Rate (%)	-7 to -29	-12 to -42	-23 to -62	↓
	Winter Precipitation Rate (%)	+6 to +19	+9 to +27	+16 to +51	↑
	Sea Level Change (m)	+0.14 to +0.19	+0.24 to +0.36	+0.42 to +0.72	↑

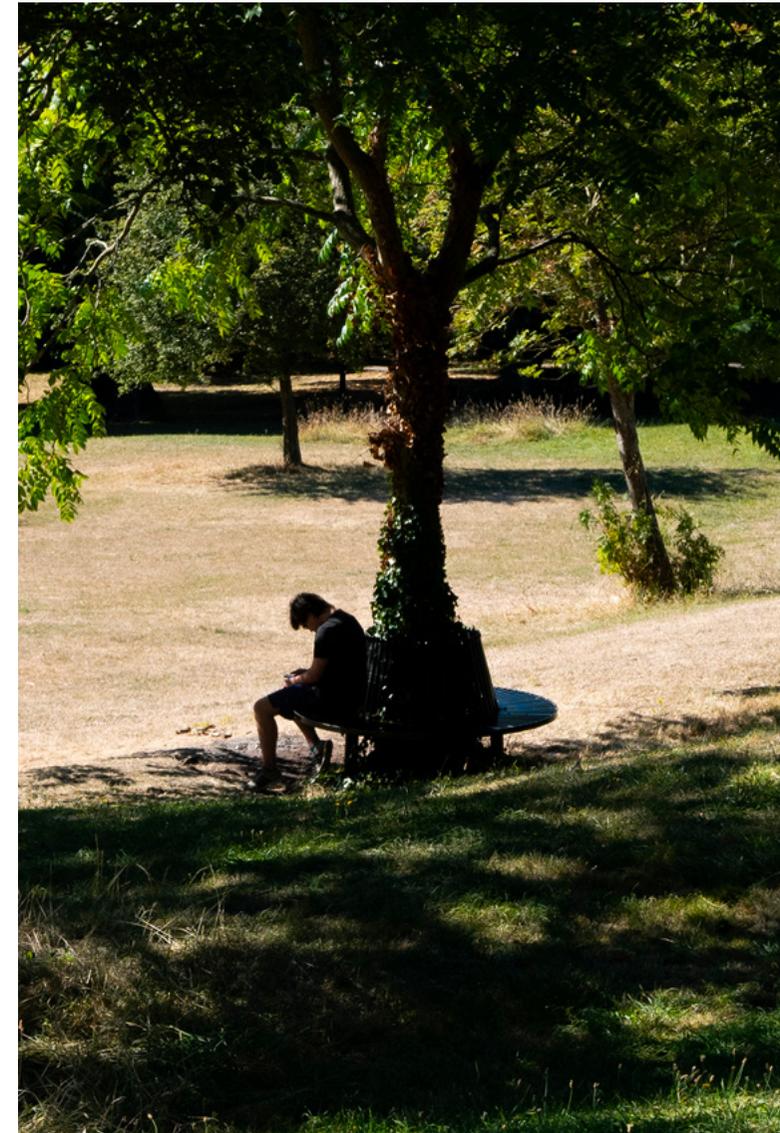
Met Office UK Climate Resilience Outputs: Bristol City Pack

This summer has seen heatwaves and recording-breaking temperatures across much of Europe including the UK and Bristol. Over the last five years we have seen prolonged high temperatures and official heatwaves. Impacts included buildings overheating, decreased worker productivity, highways affected by high temperatures, open spaces under pressure and impact on vulnerable people and pressure on health and social care systems with spikes in calls to the NHS helpline, hospital admissions and mortality. Heatwaves will increase in frequency, intensity and duration so impacts will increase in the future.

We have been looking into urban heat risks, how these vary across the city today and how climate change will increase extreme heat. We worked with experts from the Tyndall Centre for Climate Change and from the Met Office, funded by the UK Climate Resilience Programme on the [Bristol Heat Pack](#). This provides information on how extreme heat events in Bristol may change this century due to climate change, the impacts and how to build resilience to extreme heat.

The negative impacts of extreme heat on human health do not occur equally across a population. Older people, under 5's and those with underlying conditions are especially at risk of struggling to keep themselves cool and hydrated during a heatwave. Knowing who is most vulnerable to urban heat risks and where they live provides vital evidence to help build resilience to both current and future heat.

This summer we produced a new [Keep Bristol Cool](#) mapping tool. It includes a heat vulnerability index that identifies the most vulnerable locations in the city by bringing together information on Bristol's population, people's homes and the local environment. It also includes a set of climate maps which provides information on warm nights and hot days for the 2030s, 2070s and baseline data (1981-1999). This new tool and a forthcoming urban heat resilience framework will help policy makers, decision makers and practitioners build greater resilience in the city.



Brandon Hill, Summer 2022



Natural flood management scheme in Southmead

Bristol is also at risk of flooding from a range of sources. Climate change is likely to increase the frequency and intensity of this hazard making the city more vulnerable to flooding. There have been several small flood events in recent years but major flooding has been avoided. The greatest risk is that of tidal flooding from the River Avon.

Today, around 1,200 existing properties are at risk of flooding from the River Avon. This is projected to rise to around 4,500 existing properties by the year 2125 due to the

impacts of climate change. The Bristol Avon Flood Strategy sets out our plans to manage this risk now and in the future.

There are a further 3,440 properties at risk from surface water flooding across the city. One of the ways we seek to reduce this risk is through the introduction of sustainable drainage systems (SuDS), such as the highway SuDS schemes we have delivered in Southmead and the plans for a large scale SuDS retrofit programme as part of the Frome Catchment Innovation Programme.

Bristol Water's supply area has historically been resilient to drought and is not currently deemed as a water scarce area. Significant drought is not considered as a highly likely hazard in Bristol at this time but with the projected impacts of climate change it is likely to become a greater issue. Bristol Water's current 25 year Water Resources Management Plan plans for a 1 in 200 year severe drought with a new plan scheduled for 2024.

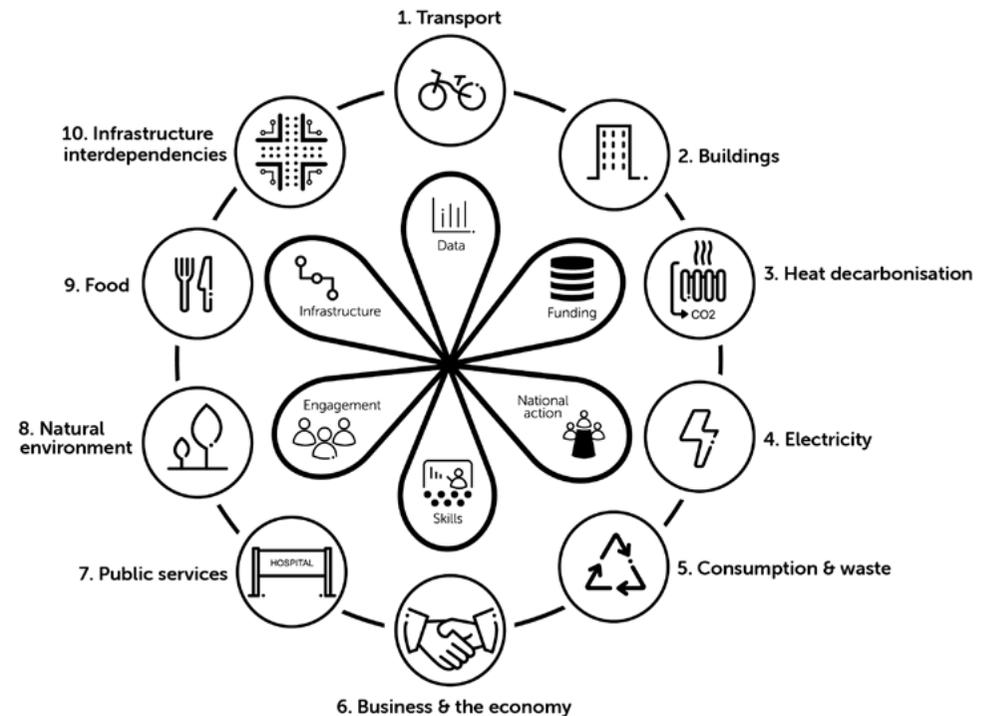
4. How we contribute to the One City Climate Strategy

Our actions are set out in a table as an appendix to this document. In the previous section, we talked about how our actions relate to our new corporate strategy priorities. In this section, we describe our actions in more detail and list them below against the One City Climate Strategy themes to give an overview of how our actions contribute to that strategy. The actions that relate to our own internal operations are listed under ‘Council Operations’. The actions that relate to helping the wider city to make progress are listed as ‘City’.

Five of the biggest actions we are working on are:

- We are spending £12 million to complete the replacement of all our streetlights with energy efficient bulbs and a new operating system.
- We will continue to power more of our office buildings with locally produced renewable electricity.
- We have committed to spending £97 million to making the homes we own more energy efficient and generating electricity through installing solar panels on some roofs.
- The innovative City Leap Energy Partnership will launch in 2022. We anticipate this will deliver around £424 million of energy efficiency and generation projects to our corporate estate in its first 5 years and avoid around 140,000 tonnes of carbon emissions across the city over the first five years of the partnership.
- We will be replacing the 2 high energy consumption gas cremators at Canford Crematorium with electric ones.

Here is a diagram showing the One City Climate Strategy themes and enabling conditions which we have used to describe our actions.



Transport

Council Operations

When council vehicles are due to be replaced, we are replacing the smaller vans and cars with electric ones and installing charge points. We will still need to buy larger vehicles with diesel engines until the electric alternatives become more affordable, so we are planning our approach and future funding strategy.

City

We are in the process of creating more segregated walking and cycling routes through the city centre and improving bus routes. There are a number of projects underway on key roads into the city which will give buses priority and improve the walking and cycling experience. We are working with partners to create two new railway stations at Portway and Ashley Down. We will also continue helping individuals, businesses and communities to make more of their journeys by walking, cycling or bus through our tailored travel support and bike loans.

We are piloting Bristol's first 'Liveable Neighbourhood' in East Bristol which will aim to make streets safer, giving people the confidence to walk and cycle more regularly and allowing communities to flourish.

We operate a significant number of electric vehicle charging points across the city. We are also loaning electric vehicles and providing advice and support to businesses wishing to replace their vehicles through the Electric Vehicle Centre of Excellence.

We have secured £500,000 from government as part of the Net Zero Transport City pilot, to undertake a business case for plans to decarbonise our transport network which could be put into action should further funding be made available for the work required.

Buildings

Council Operations

We are progressing plans to reduce the number of operational properties which we own. We will make energy efficiency improvements to all the buildings that we

keep and install renewable energy systems where possible.



Bristol City Council owned 'Revive' vehicle charging network electric vehicle charge point

City

As part of the £97 million commitment to making the homes we own more energy efficient, we will ensure all of these reach a minimum Energy Performance Certificate (EPC) rating of EPC C by 2030. This will be achieved through measures such as insulation.

We will continue to deliver grant funded programmes installing energy efficiency measures and low carbon heat for low-income owner-occupied homes through the Bright Green Homes scheme.

We are changing the way we build our new council housing and deliver our major projects to lower their carbon emissions, make them more climate resilient and ensure they create more space for nature. At the moment this is at the pilot stage in two major regeneration schemes.

We will install ground and air source heat pumps to provide low carbon heating systems to over 400 new homes. We are approaching net zero carbon emissions on a number of small sites developed as part of the Bristol Housing Festival. This will be

achieved by using highly insulated modular or 'off-site construction' buildings with heat pump systems and remaining emissions offset with onsite solar photovoltaic panels.

We will be consulting on our new Local Plan policy in the Autumn, including policies for new development to be carbon neutral and climate resilient.

We are developing the Bristol Avon Flood Strategy to provide effective flood defences for the city centre, currently meeting flood risk and future risk which will be increased by climate change.

Heat decarbonisation

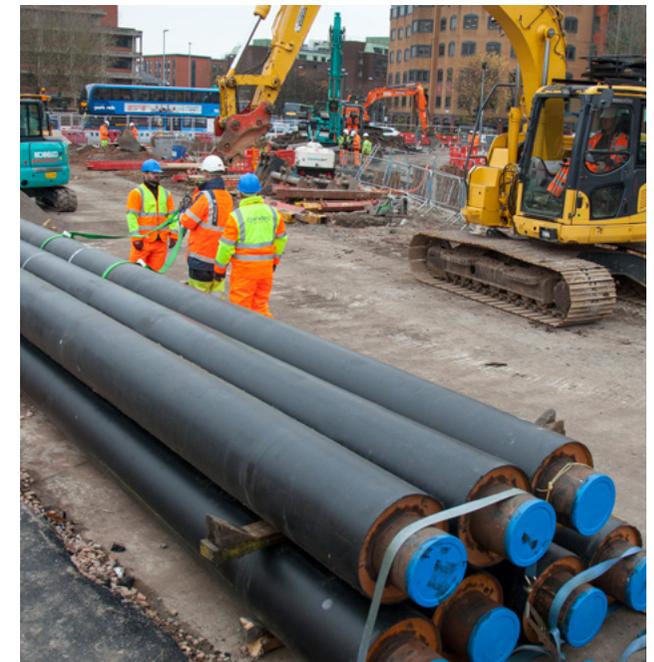
Council Operations

We launched the ground-breaking City Leap Energy Partnership to accelerate delivery of low carbon energy infrastructure and energy efficiency measures. Through this public-private partnership, we will develop projects to reduce the carbon emissions from our buildings, replace their gas heating systems and generate renewable energy, for example by installing more solar panels.

We will purchase more green gas in order to move away from using brown gas in council buildings by 2025, whilst we wait for district heat connections and low carbon heating systems to be available.

City

Through the City Leap Energy Partnership, we will rapidly expand our district heat network to supply low carbon heat to buildings in central areas of the city.



Redcliffe district heat network being built.

Electricity

Council Operations

We aim for all the electricity and gas which we purchase to be from certified renewable sources, including purchasing from local community energy generators.

City

We are supporting a number of community energy generators to build and run renewable energy generation facilities, such as Ambition Community Energy in Lawrence Weston.

As part of the £97 million commitment to making the homes we own more energy efficient, we will develop a programme to install solar panels on a number of council homes.

We continue to install solar panels on school roofs, having installed them on many of our suitable roofs.

Consumption and waste

City

We have opened a new waste and recycling centre and re-use shop on Hartcliffe Way to increase the reuse of items. Our company, Bristol Waste are also leading public campaigns to encourage reduce, reuse and recycling, especially of food and also improving the recycling service to flats.

Business and the economy

City

We are providing input to the monitoring and reporting of progress on the One City Climate Strategy.

We continue to encourage more Bristol businesses to support the [Bristol One City Climate Ask](#), to take further actions to reduce their emissions, to tell their story and so inspire others.



Bristol Waste Reuse shop at Avonmouth

We continue to fund key city networks such as the Bristol Green Capital Partnership's [Climate Leaders Group](#) co-convened by Business West. This group brings together more than 30 organisations who are leading the way in reducing their own emissions and providing peer support. Alongside NatWest we fund the Climate Action programme, also convened by the Bristol Green Capital Partnership, which organises workshops and resources to support Bristol businesses to reduce emissions such as getting together fleet managers from different organisations to discuss working together to change to electric vehicles and a clinic on business energy use.

A joint partnership between the Environment Agency, South Gloucestershire Council and Bristol City Council is delivering around 17km of flood defences along the Avonmouth Severnside stretch of the Severn Estuary. These defences will better protect Bristol homes and businesses from tidal flooding. This project is also creating new wetland habitats which will mitigate against future developments in the Enterprise Area.

Public services

Council Operations

We will deliver our £5 million Climate and Ecological Emergency Programme. As part of the programme, we continue to train council leaders and staff on climate change to help them incorporate climate action into everything the council does. The programme also includes driving sustainability through our procurement and commissioning supply chain and processes to help promote the voluntary, community and social enterprise sectors and achieve our ambitions in relation to both the climate and ecological emergencies.

We will buy renewable energy for our operational estate and replace high energy consuming items with lower energy equivalents including extending the LED streetlighting. We are investing £12m to replace all of our streetlights with energy efficient LED lamps to cut emissions and save on electricity costs.

City

We have developed the [Keep Bristol Cool](#) mapping tool. This online tool shows where in the city people are most vulnerable to high summer temperatures by looking at current heat vulnerability and climate change extreme heat trends for the city. This tool and the co-development of a framework for urban heat resilience will help Bristol City Council and city organisations to explore urban heat risks and to make informed decisions with respect to the longer-term growth of the city, protecting people during heatwaves, urban cooling through green infrastructure and making homes less likely to overheat.

As described above under the Business theme, we continue to fund key city networks. These networks support both business and public sector organisations to reduce their emissions.

Natural environment

Council operations and City

The key activities we are undertaking here are described separately in our [Bristol City Council Ecological Emergency Action Plan](#). There are many additional benefits to the nature-based solutions found here from carbon, climate risk and nature recovery perspectives.

Food

Council Operations

We are updating our Bristol Eating Better Award criteria for food businesses to incorporate new actions on climate and sustainability.

We are incorporating our Good Food Catering Procurement Policy into a new Healthy and Sustainable Procurement Policy that will apply to all contracts over the procurement threshold. Depending on the value of the contract, this requires contract holders to hold the Bristol Eating Better Award, or the Food for Life Served here accreditation.

As part of the new Local Plan, we are developing planning policies which aim to ensure that food growing is incorporated into new developments in the city. We will also update the Parks and Green Spaces Strategy to ensure that suitable land owned by the parks service is optimised, where practical, for food growing. We will also update the Allotments Strategy to improve provision of food growing space across the city.

City

We will work with partners to produce a Bristol Good Food 2030 Framework, three-year action plan and [website](#) to get more people involved in the city's good food movement. Through partnership work, we will increase the amount of food waste recycled by businesses and households.



BCC Blaise Plant Nursery staff preparing vegetable plant donations for delivery to community groups

Infrastructure interdependencies

City

The Bristol Avon Flood Strategy and Frome Catchment Innovation Programme sets out our plans to manage the risks from flooding caused by both tidal and surface water flooding, now and in the future.

We are developing plans for a large scale Sustainable Urban Drainage Scheme retrofit programme in the river Frome catchment area as part of the Resilient Frome project.

Enabling Conditions

The One City Climate Strategy identified some crosscutting changes that will be required to enable the city to achieve its goals.

Data

Council Operations

We are at the forefront of local authority emissions reporting, having measured and reported our own scope 1 and 2 emissions for decades. We continue to refine measurement and reporting of our scope 3 emissions.

City

We continue to report the city's emissions through the internationally recognised Carbon Disclosure project.

Funding

City

We have embarked upon the most ambitious project in the UK to secure additional finance for climate action through the creation of the City Leap Energy Partnership. It is planned that this will deliver over £1 billion of investment with £424 million in the first five years.

Through working with 3Ci, involving the Core Cities, we aim to stimulate investment in city decarbonisation through demonstrating the

huge opportunity for investment in a low carbon economy across the UK. This will help to reduce emissions and also stimulate the entire market and supply chain, leading to innovation and cost reductions. Encouraging this investment to be directed towards Bristol will help us achieve climate goals.

The challenges we face in Bristol are shared by cities across Europe and the key principles of the One City Climate Strategy include collaboration and learning. We successfully applied for the European Union's Climate Neutral and Smart Cities Mission which aims to support 112 cities to achieve carbon neutrality by 2030 through tackling barriers and securing investment in decarbonisation with learning across the Mission Cities network and access to expert advice.

We will work with partners to develop innovative finance mechanisms which complement the investment already being made in the city to accelerate decarbonisation, to enable citizens to invest in local climate action and to involve communities in planning climate action.

National action

City

Bristol chairs the Core Cities Low Carbon, Energy and Resilience Policy Hub which seeks to share good practice between the 10 cities in the network and to work with government to help achieve our climate goals.

The focus of our national action has been on funding through the 3Ci initiative above. In July 2022, the government established the Local Net Zero Forum to build on the existing engagement between central and local government and maximise place-based delivery of net zero. Bristol represents the Core Cities at this forum.

Skills

City

Bristol City Council has launched the Building Bristol initiative. From January 2023, major development schemes could be required to pay a small charge and to produce a robust employment and skills plan. These plans will be key to achieving an increase in green skills.

The West of England Combined Authority has a responsibility for employment and skills in the region. We are advisors to the development of their plans for schemes that grow green skills in the area, for example a Green Recovery Fund business case around retrofit skills.

Engagement, culture and inclusion

Council Operations

We will continue to develop our in-house climate and ecological awareness training, adding more detailed online modules and interactive workshops and sessions to ensure staff across the organisation are informed about the climate and ecological emergencies and able to embed this knowledge in their work and everyday lives.

We communicate with our colleagues about corporate and individual climate and ecological action on a regular basis.

City

We are developing a range of projects to engage with Bristol citizens and businesses. This engagement is informed by a comprehensive range of environmental communications research and aims to inform and empower people to take action in their work, communities and at home.

This summer, we awarded £95,000 of community grant funding to community organisations who applied for up to £5,000 of funding.

Having helped secure £2.5 million of National Lottery funding, we continue to play our role in the innovative Community Climate Action Programme by supporting delivery of phase 2. This is in 6 areas: supporting 6 communities to deliver their Climate Action Plans, disseminating learnings with 12 new pilot, communities, a new community Leadership Panel on Climate and Just Transition and a citywide Transport Demonstrator Project.

Appendix – Bristol City Council Climate Emergency Action Plan

Climate Emergency Action Table

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
Transport						
1	ENV1 - Carbon neutral	Develop a plan and secure budget for the decarbonisation of our vehicles, mainly by replacing petrol or diesel vehicles and some plant with electric. This will require many additional charging points and funding for the replacement of fleet vehicles.	March 2023	Reduced air pollution, quieter streets and better physical and mental health	✓	
2	ENV1 - Carbon neutral	Provide continuous bus priority and better walking and cycling links along the A4 Portway and deliver the Portway rail station and associated access improvements.	Early 2027	Reduced air pollution, quieter streets and better physical and mental health		✓
3	ENV1 - Carbon neutral	Provide improved public transport infrastructure and a park and ride to reduce traffic on the M32.	Early 2027	Reduced air pollution, quieter streets and better physical and mental health		✓
4	ENV1 - Carbon neutral	Make walking and cycling improvements at Park Row, Old Market and Cotham Hill.	Early 2024	Reduced air pollution, quieter streets and better physical health		✓
5	ENV1 - Carbon neutral	Run the Electric Vehicle Centre of Excellence to provide support for businesses and build confidence to change their fleet to electric vehicles. We will buy and loan up to 62 cars or vans and 2 taxis.	March 2024	Reduced air pollution, quieter streets and better physical health		✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
6	TC1 - Connectivity	Write a freight strategy describing how we will help freight transported on Bristol roads to be zero carbon and efficient.	December 2023	Reduced air pollution, quieter streets and better physical health		✓
7	TC1 - Connectivity	Develop plans for a mass transit system together with neighbouring authorities.	Ongoing	Reduced air pollution, quieter streets and better physical health		✓
8	TC2 - Improved bus service	Develop proposals for how the city can accelerate plans to decarbonise the transport network through measures such as electrifying the bus fleet, delivering e-cargo freight consolidation hubs and introducing a Zero Emission Zone as part of the Zero Emission Transport City project. Note that no funding is guaranteed or confirmed to take forward these initiatives at this stage.	2023	Reduced air pollution, exercise and better physical and mental health		✓
9	TC3 - Safe and active travel	Improve Bristol city centre through the City Centre Framework. Build on the closure of Bristol Bridge to general traffic, providing segregated walking and cycling routes in the area (e.g. Victoria Street) and completing the inner city 'circle line' route for buses, pedestrianising Old City and improvements to outdoor areas in Broadmead and Queens Road.	2025 - 27	Reduced air pollution, improved public space, exercise and better physical and mental health		✓
10	TC3 - Safe and active travel	Co-design the East Bristol Liveable Neighbourhood plans. Trial the plans, prioritising safe and active travel by reducing the impact of through traffic.	January 2024	Reduced air pollution, better physical and mental health and community cohesion		✓
11	TC3 - Safe and active travel	Encourage more pupils to walk, scoot and cycle to school through the Bristol School Streets projects to reduce volumes of traffic around school gates.	Ongoing	Reduced air pollution, better physical and mental health and community cohesion		✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
12	TC3 - Safe and active travel	Build a regional Cycling Centre which will combine a range of cycling services, including cycle training, rehabilitation and inclusive cycling for people with disabilities and an extensive sports cycling facility.	Ongoing	Reduced air pollution, exercise, better health and community cohesion		✓
13	TC3 - Safe and active travel	Support the Voi scooter trial (led by West of England Combined Authority).	November 2022	Reduced air pollution, quieter streets		✓
14	TC3 - Safe and active travel	Offer support and advice to individuals and businesses to increase the proportion of journeys taken by foot or by bicycle through bike loans, travel planning, travel roadshows, cycle training etc.	Ongoing	Reduced air pollution, quieter streets, exercise and better physical and mental health		✓
15	TC4 - Physical infrastructure	Install and operate 10 rapid charge points for use by taxi and private hire fleet operators and 2 to 3 ultra-rapid charge-point hubs for commercial and public users.	March 2023	Reduced air pollution, exercise and better physical health		✓
16	TC4 - Physical infrastructure	Support the West of England Combined Authority in delivering new railway stations at Ashley Down and Henbury.	2024	Improved air quality and physical health		✓
17	TC4 - Physical infrastructure	Build 'Mobility Hubs' in partnership with the West of England Combined Authority. These hubs will offer different travel options in one place e.g. bike hire, e-scooters, bus, e-cargo bikes.	2022	Reduced air pollution, quieter streets and better physical and mental health		✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
Buildings / Electricity / Heat Decarbonisation						
18	ENV1 - Carbon neutral	Launch the City Leap Energy Partnership joint venture. This will deliver low carbon energy infrastructure such as solar PV, heat networks, heat pumps and energy efficiency measures at scale both to Council properties and across the wider city. This is an ambitious new approach to partnership between the public and private sector designed to attract £1 billion of new investment into Bristol's energy projects and support the creation of a zero-carbon, smart energy city by 2030.	December 2022	Lower energy bills, healthier housing and reduced air pollution	✓	✓
Buildings						
19	ED06 - Estate Review	Review our operational estate to ensure we have the right amount and right quality of workspaces. City Leap will then deliver energy efficiency measures, renewables and decarbonisation projects to the buildings which remain in our ownership.	2025	Lower energy bills, more comfortable workplaces	✓	
20	ES3 - Good growth	We will use new management systems to make sure that everything we build is low carbon, climate resilient and makes space for nature. This system will collect data so we can demonstrate progress. We are piloting the system on a range of projects.	Ongoing	Lower energy bills, space for nature		✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
21	HC2 - Low and zero carbon homes	<ul style="list-style-type: none"> Construct homes at Brentry and Brunel Ford where heating and hot water will be provided by an air source heat pump. Build 328 council homes at various sites where heating and hot water will be provided by a ground source heat pump. Build 16 new affordable homes where heating and hot water will be provided by a ground source heat pump Build 53 flats at Hengrove where hot water and heating will be provided by air source heat pumps Build 27 council homes in Lockleaze and Knowle using modular factory construction to increase building efficiency and decrease waste. Build 9 council homes in Horfield to Passivhaus principles to minimise their future energy use. <p>We will approach close to net zero carbon emissions on 4 of these sites which were developed as part of the Bristol Housing Festival by using highly insulated modular or 'off-site construction' buildings with heat pump systems and remaining emissions offset with onsite solar PV. [Bell Close, Marshall Walk, Romney Avenue].</p>	2030	Lower energy bills, warmer healthier housing, space for nature		✓
22	HC2 - Low and zero carbon homes	We will consult on new local plan policies in November 2022, including policies for new development to be net zero carbon and climate resilient. December 2023.	December 2023	Lower energy bills, healthier housing		✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
23	HC2 - Low and zero carbon homes	Deliver grant funded programmes installing energy efficiency measures and low carbon heat for low-income homes. This includes the Bright Green Homes programme (£2.4m to install 426 energy generation and efficiency improvements to 232 low-income owner-occupier properties, including solar panels, underfloor, loft and cavity wall insulation), Energy Company Obligation (ECO) delivery and Home Upgrade Grant delivery (£850k).	March 2023	Lower energy bills, healthier, warmer homes		✓
24	HC2 - Low and zero carbon homes	As part of our £97 million commitment to making the homes we own more energy efficient, we will ensure all these homes reach a minimum Energy Performance Certificate (EPC) rating of C by 2030. This will be achieved through measures such as insulation and solar panels.	2030	Lower energy bills, healthier housing		✓
25	HC2 - Low and zero carbon homes	Enforce Minimum Energy Efficiency Standards (Energy Performance Certificate rating E) for rented accommodation to reduce energy demand and fuel bills whilst improving health and comfort of occupants.	Ongoing	Lower energy bills, healthier, more comfortable housing		✓
26	HC2 - Low and zero carbon homes	Increase the use of Modern Methods of Construction and other innovative technologies to deliver new, sustainable and low carbon homes. Working with Goram Homes, Modern Methods of Construction will be used to help to transform Hengrove Park into a high-quality, sustainable neighbourhood and public park.	2030	Lower energy bills, healthier, warmer homes		✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
Heat Decarbonisation						
27	ENV1 - Carbon neutral	Replace the heating system at Blaise Primary school with an air source heat pump.	2024	Lower energy bills, more comfortable school		✓
28	ENV1 - Carbon neutral	Build a district heat network in the centre of Bristol heated by low carbon energy centres, that supply heating and hot water to buildings in the area. This is underway.	Ongoing	Lower energy bills, warmer homes, reduced air pollution	✓	✓
29	ENV1 - Carbon neutral	Build additional heat networks through the City Leap Partnership.	Ongoing	Lower energy bills, warmer homes, reduced air pollution		✓
30	ENV1 - Carbon neutral	Purchase more green gas in order to move away from using brown gas in council buildings by 2025, whilst we wait for district heat connections and low carbon heating systems to be available.	2025		✓	
31	ENV1 - Carbon neutral	Lead city heat decarbonisation.	Ongoing	Healthier housing, warmer homes, reduced air pollution		✓
32	ENV1 - Carbon neutral	Facilitate Bristol Social Housing Decarbonisation Forum to support and enable decarbonisation in social housing by bringing together social housing providers.	Ongoing	Healthier housing, warmer homes, reduced air pollution		✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
Electricity						
33	ENV1 - Carbon neutral	Install solar photovoltaic panels on a number of schools.	Ongoing	Lower energy bills		✓
34	ENV1 - Carbon neutral	Support Ambition Community Energy (ACE) to build and operate a 4MW wind turbine. Fund raising and procurement of turbine in 2022, target commissioning in April 2023.	April 2023	Revenue from energy generation to fund community group		✓
35	ENV1 - Carbon neutral	Set up an energy sleeving pool to enable us to purchase locally produced renewable energy from community generators and extend locally produced renewable electricity sleeving arrangement to all council operated sites by Autumn 2023.	2023	Fund community projects	✓	
36	HC2 - Low and zero carbon homes	As part of the £97 million commitment to making the homes we own more energy efficient, we will develop a programme to install solar panels on a number of council homes.	2030	Lower energy bills		✓
37	ENV1 - Carbon neutral	Engagement with Western Power Distribution to ensure the electricity distribution network in Bristol has capacity to support the electrification of heat and transport, and increased renewable generation.	Ongoing			✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
Consumption and waste						
38	ENV3 - A cleaner, low waste city	Bristol Waste to deliver education and behaviour change campaigns to encourage reduction in food waste and reducing, reusing and recycling residual waste.	March 2023	Lower food bills		✓
39	ENV3 - A cleaner, low waste city	Improve recycling services to flats. Service roll-out to increase the dry recycling and food waste reduction by assessing 30,000 flats over 1,000 locations and then providing full range of recycling facilities.	July 2023			✓
Business and the economy						
40	ENV1 - Carbon neutral	Monitor and report on the delivery of the One City Climate Strategy with partners and support the One City Environment Board, key city networks and initiatives such as the Climate Leaders Group.	Ongoing	More resilient businesses and organisations, strengthen business networks		✓
41	ENV1 - Carbon neutral	Engage with businesses and public sector to encourage them to decarbonise their own operations and take on city wide projects.	Ongoing	More resilient businesses and organisations		✓
42	ENV1 - Carbon neutral	Through the EU Climate Neutral and Smart Cities Mission accelerate climate action in Bristol, through innovation, collaboration with other cities and increasing climate investment in Bristol. This will include the creation of a new Climate Action Plan and a Climate Investment Plan.	December 2030	Improved physical and mental health, lower energy bills, more resilient businesses and organisations, healthier housing.		✓
43	ENV1 - Carbon neutral	Continue to fund the Bristol Green Capital Partnership, Bristol Food Network and Bristol Energy Network to help support the delivery of the One City Climate Strategy Goals.	Ongoing			✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
Public services						
44	ENV1 - Carbon neutral	Monitor and report on our own carbon emissions. Run our Environmental Management Systems. Report our carbon reduction and climate resilience actions and the city's emissions to the Carbon Disclosure Project to maintain 'A' rating.	Ongoing		✓	✓
45	ENV1 - Carbon neutral	Develop and deliver in house climate change awareness, ecological and sustainability training.	March 2023	Continued professional development of staff	✓	✓
46	ENV1 - Carbon neutral	Replace 4 high energy consuming inefficient gas cremators at Canford Crematorium with 2 electric versions.	March 2026	Lower energy bills	✓	
47	ENV1 - Carbon neutral	Invest in public lights by replacing existing streetlights with LED lighting and a Central Management System. 29,366 lanterns and nodes, and 4,500 nodes only.	July 2025	Lower energy bills	✓	
48	ENV1 - Carbon neutral	Raise the voices of cities at a local, national and international level on climate change and the ecological emergency and influence government to create the enabling conditions, including funding, for achievement of the goals.	Ongoing	Strengthen national and international profile of Bristol	✓	✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
49	ES3 - Good growth	Drive sustainability through the council's procurement and commissioning supply chain and processes to help the council promote the voluntary, community and social enterprise sectors and achieve its carbon neutral, climate and ecologically resilient and wildlife goals.	March 2023	Sustainable business		✓
50	ENV4 - Climate resilience	Develop and deliver the Bristol Avon Flood Strategy to understand where improvements to flood defences need to be made and where there are opportunities to improve walking and cycling connections and deliver blue/green infrastructure.	Ongoing	Space for nature		✓
51	ENV4 - Climate resilience	Deliver the Heat Resilient Bristol project to investigate urban heat risks, and co-develop a heat vulnerability index and framework for urban heat resilience.	March 2023	Public health, tackle inequalities, nature recovery, critical service delivery		✓
Food						
52	ENV1 - Carbon neutral	Produce the Bristol One City Good Food 2030 Plan and updated website.	2024	Improve physical and mental health		✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
Engagement, culture and inclusion						
53	ENV1 - Carbon neutral	Deliver phase 2 of the Community Climate Action funded project, comprising: supporting 6 communities to deliver their Climate Action Plans, disseminating learnings with 12 new pilot communities, a new Community Leadership Panel on Climate and Just Transition, and a citywide transport Demonstrator Project.	2023	Community cohesion, economic		✓
54	ENV1 - Carbon neutral	Deliver a climate and ecological emergency community grants scheme.	March 2023	Community cohesion, improved physical and mental health		✓
55	ENV1 - Carbon neutral	Lead engagement with citizens to enable delivery of the One City Climate Strategy objectives through a series of social media campaigns, continually developing web site, shared branding, producing climate action/story content, in-person engagement e.g. at events, catalysing partners to engage more and better, and working with existing engagement services within BCC such as arts, culture, community development, active travel, and other future projects.	April 2024	Improved physical and mental health, reduced air pollution, community cohesion, warmer and healthier homes, lower energy and food bills		✓
56	ENV1 - Carbon neutral	Display the Think Global Act Bristol interactive climate change exhibition at the M-Shed, with complementary outreach community engagement activities.	November 2022			✓

Ref:	Main Corporate Strategy priority	Action	Expected completion	Other potential benefits of action	Corporate	Citywide
Funding and finance						
57	ENV1 - Carbon neutral	Work with the UK Climate Investment Commission (3Ci) to develop investible propositions to secure private sector finance for citywide decarbonisation. Secure investment to support the climate and ecological emergency and key regeneration sites across the city.	Ongoing	Improved physical and mental health, reduced air pollution, community cohesion, warmer and healthier homes, lower energy and food bills	✓	✓
58	ENV1 - Carbon neutral	Seek funding to develop innovative finance mechanisms which complement the investment already being made in the city to accelerate decarbonisation, to enable citizens to invest in local climate action and to involve communities in planning climate action.	Ongoing	Economic, Community Engagement	✓	✓
Skills and capacity						
59	ES2 - Access to employment	Create more jobs and skills training in construction through the 'Building Bristol' initiative, in partnership with BCC planning, which includes green and sustainable opportunities.	2024	Skills and jobs		✓

