

04/10/2022

# Redditch Borough Council Carbon Reduction Strategy & Implementation Plan V4.4

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## Background & Introduction

Globally, governments have committed to keep within 1.5°C increase in temperature to avoid catastrophic impacts from climate change<sup>1</sup>. UK Government has committed to Net Zero by 2050. Local Authorities (LA's) are key in taking and influencing action on climate change due to the services they deliver, their regulatory functions, strategic functions, procurement powers and responsibilities as social landlords and major employers. This evidence supports that Redditch Borough Council should make carbon reduction key to what we do as a council.

Redditch Borough Council declared a climate emergency in 2019. On declaration of a climate emergency, an LA is affirming it will place the Climate Emergency at the centre of its decision-making process. LA's are then expected to develop carbon reduction targets and Implementation plans to assist in the reduction of carbon emissions, from their own council functions and, using their sphere of influence.

Our thanks go to Alex Pearson from Nottingham City Council and the Midlands Net Zero Hub for his support and work authoring this document.

This plan will be refreshed every 3 years, and reviewed annually. Progress against targets will be reviewed twice a year.

Climate Change is a very real and existing threat and is no longer an issue we can afford to ignore. Redditch Borough Council has acknowledged the climate and environmental crisis declaring a climate emergency.

Our outline Climate Change Strategy and Action Plan sets out how we will work collaboratively, to protect our future together in the uncertain times ahead.

To achieve our target date of carbon neutrality, we need to radically rethink how we live, work and invest in the Borough. To do this we have to work effectively.

We therefore call on you, as people who live, work, visit and invest in our borough, to join us in creating a Redditch Borough that is resilient to the impacts of climate change and work towards a zero carbon, sustainable future for all.

*Councillor Anthony Lovell, Portfolio Holder*



Figure 2 Kevin Dicks - Chief Executive, Bromsgrove & Redditch Councils



Figure 1 Councillor Anthony Lovell, Portfolio Holder - Climate Change

## Commitment & Integration

**Background:** The council is committed to carbon reduction through its declaration of a climate emergency in 2019. Our commitment to reducing our carbon emissions and influencing the reduction of local carbon emissions goes hand in hand with the 'net zero by 2050' target set by the UK Government, a goal that requires us and all sectors to pull together to achieve.

**What we are currently doing?** We have embarked on a journey of delivering Carbon Literacy Training to our Staff and Councillors and this will put climate action into the hands of everyone and can deliver between 5-15% real carbon savings per individual. Each of the council's service areas has contributed to this plan in order to produce 'carbon reduction pathways'. Through this approach carbon reduction will become 'business as usual' and truly embedded throughout the organisation. The Council employs a Climate Change and Energy Support Officer currently supported by an Environmental Policy and Awareness Officer, these posts are shared across both Bromsgrove & Redditch Councils. Each service area in Redditch Borough Council has been involved in the formulation of this plan and are committed to delivering the actions in the implementation plan.

**What further actions are we going to take?** This Plan will be our route map to 'net zero' for our internal activities. It will also highlight where we are trying to influence the reduction of carbon emissions from other places outside the council's activities.

The views of residents and partners are reflected in this plan and they have helped to shape the actions that we are going to take. We are committed to considering the environmental impact of our decisions as a council at every stage.

Our implementation plan (forming part of this strategy) will deliver real and quantifiable carbon reductions. This strategy will be monitored twice yearly by the Climate Change Panel within the council with annual progress reports being sent to the Executive committee. Key to the delivery of this strategy is the integration of plan objectives and targets with every aspect of council service delivery. To this end a collaborative approach involving all heads of service and their teams has been taken. We will link this strategy to corporate performance indicators, and provide a specific 'project based' focus for the council.

## Our Key Successes and Top Five Future Actions

**Key successes:** The council has been successful in securing funding through to install new more efficient glazing, better heating controls and a heat pump at the town hall. When this project is completed over 100 tonnes of carbon emissions will be saved per year. Over the past year the council has also participated in a 'micro mobility trial' seeing hi tech electric scooters available for hire by Redditch residents. The crematorium has been supplying surplus heat to the Abbey Stadium leisure centre for nearly 10 years now, saving both costs and carbon emissions from the sports facility. Greenlands business centre has also received funding in order to improve the fabric of the building and install a low carbon heating system. We will be looking to continue these successes with similar projects as shown in the table below.

### Top five future actions:

Measure	Estimated Saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date
Assess low carbon fleet fuel options	486	Environmental Services	Review Spring 2023, completion of fuel switch 2040
Refurbish Crossgates depot to include renewable energy & resource efficiency	100	Environmental & Housing Property Services / Legal, Democratic & Property Services	June 2023 for review
Apply for funding to improve energy efficiency of the council's housing stock	250	Community & Housing Services	June 2023 for completion of some funded schemes
Set up a rolling programme of works to improve energy efficiency / renewable generation in the buildings with the highest consumption	100	Legal, Democratic & Property Services	Various deadlines for applications to the Salix funding scheme
Work with Rubicon leisure to further reduce carbon emissions at Abbey Stadium, Needle museum & Forge Mill visitor centre	66	Legal, Democratic & Property Services	Dec 2025

## Partnership Working

**Background:** In order to deliver this it is vital that we work closely with our partners, in order to reduce the carbon emissions of the district as a whole. The council's own emissions are a small part of the overall figure and it is important that we use our sphere of influence to encourage others to address their own emissions. Shared learning is a powerful tool to enable carbon reduction and the council can both learn from and influence a wide range of stakeholders across the Borough. The council can also benefit from partnership working with county, regional and national organisations by seeking out and engaging the support that may be available.

**What are we currently doing?** We currently work closely on a borough level with partners such as 'Rubicon Leisure' who run our sports and leisure facilities. Rubicon Leisure have benefitted from council led actions to reduce energy usage at sites such as Abbey Stadium where waste heat from the crematorium makes a meaningful contribution to the facility's annual energy needs. Our Housing team work closely with Act on Energy, an energy advice charity - to advise tenants on the best ways to cut carbon and reduce bills. Our 'Local plan' will ensure that new developments meet new higher standards for building efficiency. We work closely with the county council to ensure that homes and businesses can benefit from the advice and grants that are made available through the sustainability team. The council is also part of the Joint Worcestershire and Herefordshire Waste Partnership group working towards waste reduction and better waste management across the county. We are also working closely with Worcestershire Regulatory Services to promote Electric Taxi's through the licencing system. Another county wide organisation that we enjoy a close working relationship with is the Local Enterprise Partnership and some of the targets set in this strategy reflect the LEP Energy Strategy of 2019. On a regional level we work with the Midlands Net Zero Hub on several carbon reduction projects (some of which form part of the implementation plan), the West Midlands Combined Authority, and Sustainability West Midlands. On a national level we have recently worked with the Energy Saving Trust to look at carbon reduction options across our vehicle fleet.

**What further actions are we going to take?** Redditch Borough Council will continue to work with local, regional & national partners to share learning, refine our carbon reduction plans and make the best possible use of funding opportunities. We will investigate opportunities for carbon reduction with our suppliers and delivery partners whilst ensuring that our carbon reduction strategy is in line with the other Worcestershire district councils. We will work with Worcestershire Regulatory Services to investigate how we might develop street trading policy to encourage low carbon and sustainable trades to operate in the local area. We will also continue to explore options with Worcestershire County Council & local businesses to encourage walking and cycling to work

## Community Engagement & Communication

**Background:** The residents of Redditch have expressed a wish for their council to address the climate emergency and lead the way through carbon reduction. A recent survey indicated that 85% of residents are concerned about climate change and the impact it is having and 76% told us that dealing with climate change should be a key priority for the Council.

**What we are currently doing?** Carbon reduction has a dedicated webpage on the council's site and there is consistent messaging around waste & Recycling. Community engagement events are held regularly on a diverse range of subjects relating to energy, waste & environment. The green fair & 'fun-day' is a key event to communicate the message of a low carbon future to the wider community and 2022 will see the return of this popular event in Arrow Valley Country Park. Within the council a regular electronic internal staff newsletter is used when there is news relating to carbon savings projects that staff should be aware of.

**What further actions are we going to take?** All service areas will have Email footers promoting carbon saving and resource reduction, we will update our website more regularly with news on carbon reduction in addition to regular e-mail newsletters and a refreshed social media policy. Develop a communications plan to promote biodiversity and land management actions within the authority and engage residents in conversations around increasing biodiversity in the residential settings, and the importance of biodiversity in relation to climate change. There are also opportunities at Arrow Valley Country Park to engage with the public on carbon reduction issues and we will work with our partner Rubicon Leisure to explore options. We will apply for funding to install further renewable technologies on the building in the park that serves as a visitor centre. Our housing teams will apply for funding to ensure that the council owned housing stock is as efficient as possible – taking carbon saving to the heart of the community. We will include energy efficiency advice in 'tenant packs' for householders moving into council housing in addition to information on waste & recycling. We will also seek to learn from other comparable local authorities in order to make the most of the opportunity presented by the 'Green Fair'.

## Co – benefits

### Co-benefits of Climate Action



Health

- Addressing **air quality**, **mental health**, lifestyle **diseases** (heart disease, diabetes etc).
- Less pressure on the **NHS**.



Jobs & Economy

- New **green jobs**.
- E.g. to **create** and **build** the necessary **infrastructure**, and to maintain new services.



Equity & Community

- Safe, prosperous communities **for all**, regardless of status, wealth, race, religion etc.
- **Accessibility** and mobility for residents.



### Co-benefits of Climate Action



Green space

- Increased area or access to **green space**.
- Green spaces include **tree planting** but can also be created in less obvious projects.



Resilience

- The ability to **prepare**, **recover** and **adapt** to climate impacts.
- This can be related to **extreme weather** events, access to **resources**, economic recovery etc.



Council capacity

- Climate actions that **raise money** for the **council**.
- These additional funds can be spent on other **green initiatives**.

**Background:** Co benefits can be described as an outcome linked to a carbon reduction action. An example could be cleaner air in a town centre as a benefit of the adoption of zero emission vehicles, or financial benefits accruing to the council as a result of energy efficiency measures. Co benefits can also be related to habitat creation and improved access to existing green spaces, development of the low carbon economy, skills and training or job creation and retention.

**What we are currently doing?** We are making use of our open spaces such as Arrow Valley Country Park to promote health and well-being through our cultural and leisure services in order to lift levels of physical activity. We are also delivering efficiency improvements to council owned housing stock and sheltered accommodation through a government funded scheme, which will improve living standards for the tenants and help reduce fuel poverty.

**What further actions are we going to take?** Clean air is an important co benefit associated with low and zero carbon transportation and we will continue to evaluate the most appropriate size and location of electric vehicle charge points. The council will examine the type of fuel used in its fleet vehicles in order to build on work commissioned from the Energy Savings Trust to assess the current fleet and provide guidance. Further the Council will promote reduced use of cars through active travel initiatives as part of its Leisure Strategy. If the council is successful in securing government funding for the retrofit of council housing stock, 200 households per year will see their living standards improved through energy and resource efficiency. Our new Parks Strategy will provide opportunities for further health & well-being co-benefits to the wider community through the use of our open spaces. The council will also look to use a standardised method of assessing co benefits to help inform investment decisions in the future. We will also assess how we can better signpost business to available funding in order to stimulate and grow the green economy within the Borough of Redditch.



## Equality, Diversity & Inclusion

**Background:** Carbon reduction and social justice have historically gone hand in hand in support of the United Nations Sustainable development goals. Green spaces are open to all residents and facilities will continue to be improved. Through the Boroughs social housing it will be ensured that low carbon technologies and energy saving will not be the privilege of a select few.

**What we are currently doing?** As an employer and deliverer of services, **Redditch Borough Council** has stated in its Equality Strategy 2022-2026 that it is committed to eliminating unlawful discrimination, promoting equal opportunities and fostering good relations between people from all communities.

**What further actions are we going to take?** We can align our equality strategy with the United Nations Sustainable development goals, when the review occurs in 2026. We will work with local training providers to ensure that opportunities in the green economy are available to all. Redditch Borough Council will ensure that where funding is available to support green entrepreneurs from all backgrounds, it will be effectively applied.



## Ecological emergency

**Background:** The natural environment is vital to the health and wellbeing of society and provides 'eco system services' to regulate our environment, produce clean air and pollinate our crops. An ecological emergency is when the natural environment has been damaged and the ability to provide 'eco system services is reduced'. The ecological and climate emergencies are linked. Significant carbon dioxide emissions are caused by land use change, which is also a key driver for ecological loss. The interdependencies between the species in the natural world are not all fully understood and it is vital that we act to protect bio-diversity on a local, national and global level.

The borough of Redditch contains several areas of land ranked moderate to high value for conservation and wildlife. Corridors of land linking these areas are also important for the ecology of the area. In areas where the public has access co benefits such as improved health and well-being should be considered and opportunities explored.

**What are we currently doing?** Redditch Borough Council works closely with Worcestershire County Council to manage sites for wildlife where possible. Currently we are implementing new management techniques for road verges in certain agreed areas, this allows native species to flourish and set seed, whilst providing a useful wildlife corridor and habitat for pollinators. We also have a Water courses and wildlife scheme of work managing land to reduce flooding and improve diversity. Our woodland management plan ensures that individual trees and wooded areas are maintained across the borough. The council has been communicating this policy through a dedicated web page and newsletter, in order to keep the public informed.

**What further actions are we going to take?** Conduct a survey of council sites for wildlife, continue and expand wild verges policy. and ensure. We could also investigate the use of urban space for living walls, and investigate opportunities for local carbon offsetting through tree planting and habitat creation. We will ensure that any such schemes are appropriate and do not degrade the biodiversity value of the existing land. We will look to ensure that the right species in the right place will enhance bio-diversity in the local area. Communicating policies to protect the natural environment is key to public acceptance. The Council will develop a communications plan to promote biodiversity and land management actions within the authority. Where new facilities are planned we will include habitat creation and biodiversity from the start. Where landscapes and habitat areas are managed by the council we will look to eliminate petrol powered hand tools such as strimmers and chainsaws as soon as is practicable. The Council will ensure that new developments include biodiversity net gain. Amongst other things this means that if flora or fauna is to be lost from a site to enable development to occur, the biodiversity lost on site will be more than compensated off site, so that in biodiversity terms there is a net gain. So, for example a tree lost due to development would have to be replaced elsewhere in the Borough or biodiversity net gain provided in some other way. The Council via its parks could be a receiver of biodiversity net gain opportunities and the developer would be expected to make a contribution to the council for related management costs.

## Education skills and training

**Background:** High quality jobs in the growing 'clean tech' sector will ensure that the borough of Redditch remains an attractive place for people to live and work. It is vital that we support our further education establishments to deliver high quality vocational training to our young people and those who wish to retrain for roles in the 'Low carbon economy'. The 'heart of Worcestershire College' has a campus in Redditch and there are opportunities for local companies to provide apprenticeship places through national, regional and county wide schemes.

**What are we currently doing?** We are working with the Midlands Net Zero Hub to understand the findings of their 'Low carbon Goods & Services' study of Worcestershire. Potential skills gaps have been identified that our local further education providers could help resolve. We work with the colleges through the Redditch Partnership Executive Group, Redditch Towns Deal Board and both the Greater Birmingham & Solihull Local Enterprise Partnership and the Worcestershire Local Enterprise Partnership on the skills agenda.

**What further actions are we going to take?** As part of the Towns Deal funding we are considering establishing a 'Youth council' to cover the issues surrounding climate change and ensuring that training is available for the future skills required for the low carbon economy in Redditch. We will work closely with further education training providers and both local enterprise partnerships to ensure that any new suitable funding streams can be sign posted. We will also continue to work with the Midlands Net Zero Hub to make use of the findings in the Low Carbon Goods and services report.

## Governance, Development & Funding

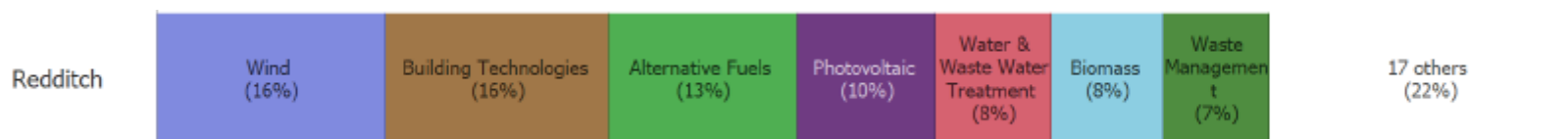
**Background:** The climate emergency declaration means that the current governance structure of the council is used to provide direction and oversee delivery of low and zero carbon initiatives. Carbon reduction projects are currently developed within the council and resourced through existing service areas. To make the best use of council resources, other funds are sought in order to maximise carbon savings. Government funding for decarbonising homes and buildings becomes available periodically in funding 'rounds'. In addition to these funds from central government there are regional and county administered schemes that the council is able to make use of. There are also investment opportunities in areas such as renewable heat and power generation through joint ventures and direct investment.

**What are we currently doing?** Currently many of our community buildings and sheltered accommodation are benefitting from solar panels on the roof and other efficiency measures. The council has also been successful in securing over £1million from the Public Sector Decarbonisation Scheme for Redditch town hall and Greenlands Business Centre. There are over 200 tonnes of carbon savings per year associated with these projects. The council was also successful in bids for funding to improve its housing stock under the Local Authority Delivery Scheme (LADS) and this will not only yield carbon reductions but improve health and well-being for the residents.

**What further actions are we going to take?** The governance required to deliver this plan will be provided by the Climate Change Panel in order to monitor progress against targets and evaluate potential new projects, before submission to the Executive Committee. The council will ensure that it is in a position to take advantage of future funding opportunities by maintaining a pipeline of suitable projects, the steering group will have a role to play in recommending schemes and projects to the Executive, particularly where there is a resource implication. Where projects are funded directly through council resources, a measure of best value for carbon reduction will be applied in conjunction with affordability to ensure the most efficient and effective use of council resources.

## Low Carbon Economy

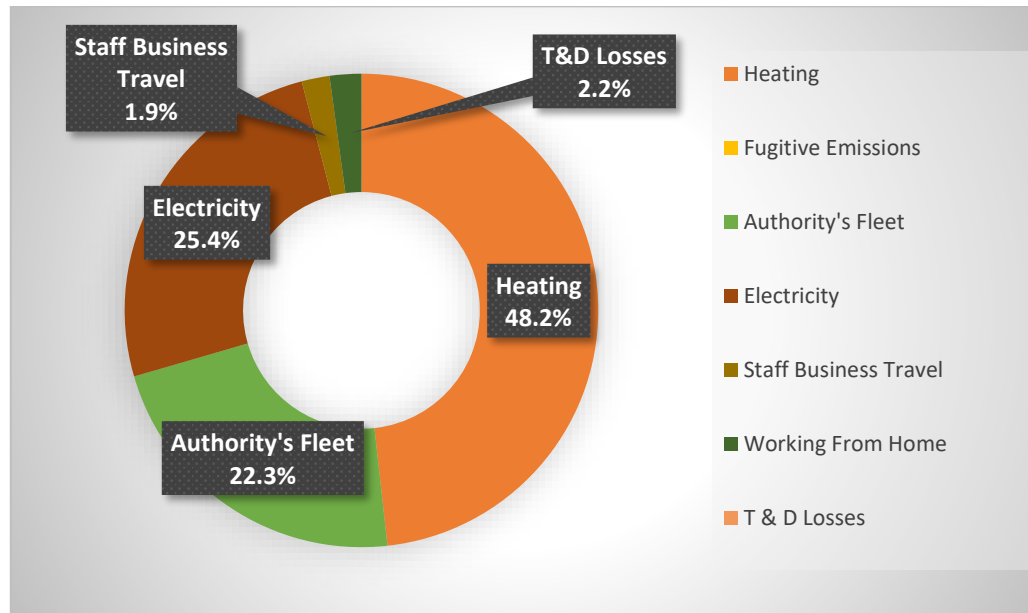
**Background:** The borough of Redditch has 17% of the overall Worcestershire sales figure for the low carbon economy. Redditch also has 25% of the companies engaged in this sector, and 14% of the total number of this sectors employees. The low carbon economy in Redditch grew by 14.6% in 2019/20 and employs 1,388 people across the borough. A breakdown of the local low carbon economy is shown below:



**What are we currently doing?** The economic strategy for Redditch is delivered by North Worcestershire Economic Development and Regeneration. Appropriate grants administered by the County Council and others are signposted to local businesses. Both Worcestershire Local Enterprise Partnership and Greater Birmingham & Solihull Local Enterprise Partnerships have growth hubs that cover the area.

**What further actions are we going to take?** At present the low carbon economy does not feature in the 'North Worcestershire Economic Growth Strategy' document and when this strategy is reviewed, the opportunity will be taken to include the findings of the Midlands Net Zero Hub 'low Carbon Economy Goods & Services report'.

## Measuring and setting emissions targets



A breakdown of the council's current carbon emissions is shown above

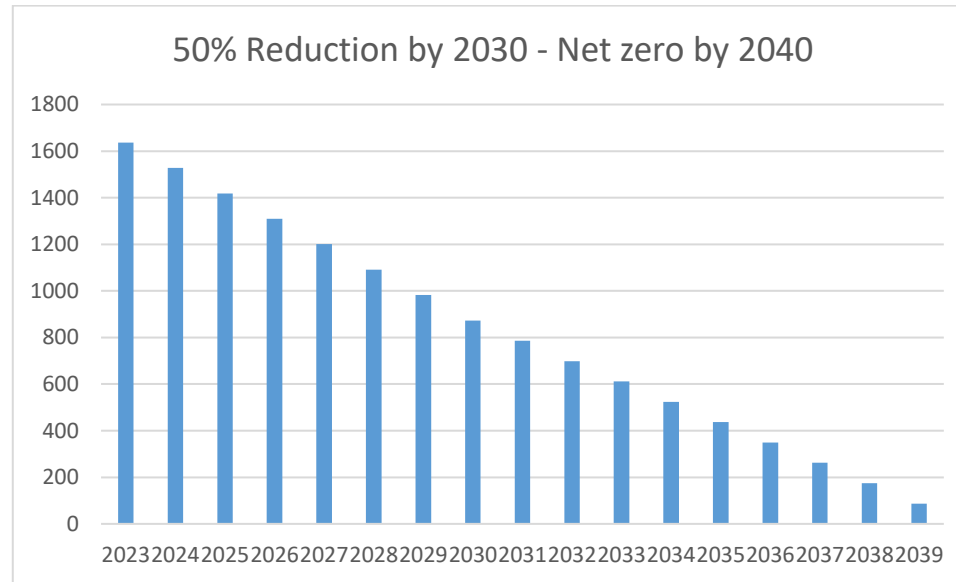
**Background:** Official carbon emission figures for the Borough of Redditch are currently available from the department of Business Energy & Industrial Strategy (BEIS). These figures are for the activities that take place within the borough, the totals represent both the direct emissions from the activities of the council and the emissions that the council has influence over. All councils must be 'net zero' by 2050, this means that direct emissions from services must be as low as possible and the remaining emissions are likely to require 'offsetting'.

**What are we currently doing?** Redditch Borough Council is working hard to quantify and understand the emissions associated with our activities. By using the latest data resulting from this exercise we can set meaningful targets that inform our implementation plan and lead to effective carbon reduction projects and measures.

**What further actions are we going to take?** The council will re commence carbon reporting, and these figures will be used to monitor performance against this plan. Carbon reduction targets in line with the other Worcestershire districts are adopted through this plan in addition

to the Local Enterprise targets of 50% by 2030 and net zero by 2040. Currently the carbon emission figure for the Borough of Redditch is 326,000 tonnes per year (2019). As part of our current work to establish a figure for the council’s activities we have arrived at an estimated figure of 1,746 tonnes of carbon emissions per year for 2021. In order to reach an interim target of 50% by 2030 we will need to reduce our emissions by approximately 110 tonnes of carbon per year. To achieve net zero in the remaining 10 years to 2040 we will need a target of approximately 87 tonnes per year.

The implementation plan has been designed to deliver these savings and will be reviewed bi-annually by the Climate Change Panel and annually by the Executive Committee.



## Mitigation & Adaptation

**Background:** The actions that the council can take to reduce carbon emissions and address the ecological emergency fall into two categories, measures that influence others and direct measures with an associated figure for carbon reduction. The first actions are to address the emissions associated directly with council activities such as service delivery. Mitigation is where we adapt our services to try and prevent the severity of climate change, Adaptation is where we have to change what we do as a consequence of the impacts of climate change we can't affect. Like selecting water resistant species in parks or emptying bins in the cooler part of the day as temperatures increase.

**What are we currently doing?** All heads of service and managers have provided input to help formulate this plan. Most of the mitigation and adaptation measures have grown from projects and practices that are already in place. As an organisation we appreciate that we can always do more, whilst recognising the resources that we have available within the council. Projects such as switching to a lower carbon fuel for our vehicle fleet and the low carbon heating installed in the town hall are key to reducing our emissions and playing out part in achieving the nationwide target of net zero by 2050.

**What further actions are we going to take?** The implementation plan included in this document details what we are going to do over the coming years and how much carbon we expect to save (for direct measures). The implementation plan has been produced from discussions with the heads of service covering all areas of council operations. We are continually improving the level of data that we have on the energy consumption of our buildings from the offices and buildings that we use for the delivery of our services, to our council owned housing stock. In terms of adaptation we must ensure that these buildings are able to maintain a comfortable internal temperature in winter but also to cope with hotter summers and extreme weather events. We could look at other actions that we could take to reduce the effects of climate change locally, for example increasing tree cover in urban areas to reduce the temperature in summer, or creating wetland habitat to control flooding. We have considered our transport fleet, our sports and leisure facilities (managed by Rubicon Leisure for us), our infrastructure and our natural environment and we are looking for carbon saving opportunities. We are also keen that the messages of carbon reduction, resource efficiency and nature conservation are communicated to our citizens in a clear and concise way through a variety of channels.



## Waste & Recycling

**Background:** The 'Environment Act 2021' is a piece of legislation that affects all local authorities in England. The Bill will require us to deliver consistent and frequent recycling collections and it will also require us to operate weekly separate food waste collections, preventing food waste from going to landfill or being incinerated. Waste collection and disposal has carbon emissions associated with it. These emissions are from the vehicles that transport the waste, and whatever process the waste undergoes once disposed of.

**What are we currently doing?** Redditch Borough Council is a 'collection authority' and the disposal of the waste collected is the responsibility of Worcestershire County Council. Currently the County Council has a 'Waste Core Strategy' that covers the period to 2027. Our council website provides information to help residents find their local recycling centre, in addition to guidance on what can and can't be recycled. We also provide links to inform residents about waste reduction (The let's waste less programme). Teachers can find learning resources for schools on our web page and we are keen to encourage children to take the message of waste reduction and recycling home to their parents.

**What further actions are we going to take?** According to the 'Department for Environment, Food & Rural Affairs (DEFRA) the recycling rates in the borough of Redditch are at 29% (2019 / 2020 figures). There is clearly more that we can do to promote waste reduction and recycling through existing channels and we will do this as part of a wider net zero communications strategy. New legislation will require changes to our waste collection service including the requirement for us to separate and collect food waste in the near future and we will investigate the potential to turn this waste into a resource through conversion to gas. (Anaerobic Digestion). We are working with the 5 other district Council's and the County Council through the Worcestershire Waste Partnership on how all the changes required by the Environment Act can be implemented.

## Implementation Plan – Measures with quantified carbon savings

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Assess low carbon fleet fuel options	486	Environmental & Housing Property Services	Review Spring 2024, completion of fuel switch 2040	Positive effect on local air quality. Healthier community	Vegetable oil as a replacement for diesel will be a transitional measure providing a pathway to other fuels such as hydrogen / biomethane or electricity. Use of EST fleet review data / Midlands Net Zero Hub electrification of council depots guide will assist with this measure. This measure will also require a report to Executive Committee regarding options and costs.
Refurbish Crossgates depot to include renewable energy & resource efficiency	100	Environmental & Housing Property Services / Legal Democratic & Property Services	01/06/2023 for review	Positive effect on local air quality, continuation of the site secures employment. The project will help to facilitate a fuel swap to reduce vehicle emissions.	Successful grant applications required to maximise carbon savings for this project. The carbon saving figure is estimated at this stage

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Set up a rolling programme of works to improve energy efficiency / renewable generation in the buildings with the highest consumption	100	Legal, Democratic & Property Services	01/06/2023 for review	Reduction in running costs and contribution to net zero target.	Successful grant applications required to maximise carbon savings. Estimate based on 10 buildings saving a minimum of 20%
Improve energy efficiency of current housing stock making use of LADS and other government schemes	250	Environmental & Housing Property Services	To coincide with release of funding and deadlines for 2023/4	Important positive health outcomes for residents, enhanced health and well-being, reduction in fuel poverty	Key team members to receive training on Air Source heat-pumps. When work takes place on a property the opportunity to facilitate future low and zero carbon options will be considered.

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Report on carbon saving as a result of streamlining operations	2	Transformation & Organisational Development	ongoing	Helps the council to put a value on carbon saving, and assists with the monitoring of this implementation plan	Good practice examples from other local authorities to be shared
Energy audit of server rooms to enable energy saving practices	1	Legal, Democratic & Property Services	To be completed by Dec 2022	Reduction in running costs and contribution to net zero target.	Assistance available from Midlands Net Zero Hub

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Moving more IT capacity to cloud based servers	1	Transformation & Organisational Development	Review annually	Reduced running costs for the council in relation to IT	It should be ensured that cloud servers are using low carbon power sources in order for the carbon saving to be claimed
Reduce staff travel and make further use of video conferencing	0.5	All service areas	To be completed by Dec 2022	Reduces the number of payments for staff travel and cuts down on unproductive travelling time	This measure fits in with the council's desire to further adopt agile working

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Walk through energy assessment of shop mobility hub at kingfisher centre	1	Community & Housing Services	To be completed by Dec 2022	Reduced running costs for the council and contribution to overall carbon reduction target	Assistance available from Midlands Net Zero Hub
Implement Recommendations of the 2020 EST report for the 'grey fleet and include' Travel plans across all service areas and encouraging wider use / accessibility of public transport through partnership working	36	Transformation & Organisational Development Service./All Service areas	2025 to review progress.	Improvements in local air quality & Savings of £34k quoted in the EST report.	Travel plans are a low cost way of reducing emissions associated with staff travel. This measure will pre-empt the government's bans on the sale of petrol & diesel Vehicles. Ultimately one or more 'Electric pool cars' could be the aim for staff

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Cut the council's paper waste by offering papers electronically	2.5	All Service Areas	Review by Spring 2023	Will save more money than it costs. Should be relatively easy to implement.	This is a measure that many other councils have implemented successfully
Work with Rubicon leisure to further reduce carbon emissions at Abbey Stadium, Needle museum & Forge Mill visitor centre	66	Legal, Democratic & Property Services/Planning, Regeneration and Leisure Services / Environmental & Housing Property Services	Dec-25	Reduced running costs and contribution to overall carbon reduction target	Midlands Net Zero hub to assist with funding applications for this work
Grid decarbonisation	443	* Grid electricity to be net zero by 2035 - electricity use from the council & our service delivery partners			
Total of above measures	1046				
Target	1746				
Remainder	257				

## Implementation Plan – Enabling Measures without quantified carbon savings

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Assess the viability of Council Car Parks and other sites for EV chargers and work with Worcestershire County to Council to implement the County Wide Electric Vehicle strategy contributing to toward a comprehensive network for Worcestershire		EV Project Working Group	Projects to be aligned with funding deadlines where possible	Air quality & Health and Well-being benefits accrue to the wider area	We will consider carefully both on street and off street locations, to ensure that residents without off street parking will have more charging options where practical. Savings can be calculated when sizes of chargers and locations are known. Assessment of charger locations for council owned leased housing stock will also form part of this measure.
Investigate options for heating & cooling networks across the borough as part of a place based approach		Legal, Democratic & Property Services/Planning, Regeneration and Leisure Services	Projects to be aligned with funding deadlines where possible	Air quality & Health and well-being benefits accrue to the wider area	Capacity Support available through Midlands Net Zero Hub



Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Work in partnership with Worcestershire County Council to Manage verges and other council owned parks and open spaces for nature		Environmental Services / Leisure Services	Ongoing	Benefits for nature, insects and pollinators, can act as wildlife corridors	Pilot scheme in progress. Can be one of a suite of schemes to help address the ecological emergency. This measure will require a report to Cabinet regarding areas and costs.
Eliminate petrol powered tools (chainsaws, etc)		Environmental & Housing Property Services / Planning, Regeneration and Leisure Services	Reviewed annually	Better working environment, less noise.	Legislation may bring the deadline forwards as petrol and diesel is banned in other areas

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Continue to evaluate green tariffs and local energy purchase agreements		Finance & Customer Services / all service areas	Ongoing	Supports local renewable energy projects / creates a demand for renewable energy	Though the focus should always be demand reduction and renewable energy generation, green tariffs can be a good way to deal with any remaining carbon emissions
Use a recognised standardised carbon calculation methodology		Finance & Customer Services / all service areas	Ongoing	Improved accuracy of 'carbon accounting' can be applied to validate the claims of suppliers who tender for council contracts	The Treasury green book provides the methodology and standardised assumptions to be used.
Record the impact of financial decisions on carbon emissions as part of a wider aim to record emissions across all council operations		Finance & Customer Services	ongoing	Helps the council to put a value on carbon saving, and assists with the monitoring of this implementation plan	Essential to the monitoring of this plan

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Include questions on Carbon to evaluate tenders for services during the procurement process		Legal, Democratic & Property Services	To be completed by Dec 2022	Helps the council to better understand emissions that are not directly in its control	This is the start of the councils journey to understand 'scope three' emissions (emissions other than those directly from fuel and power)
Mapping exercise to link forthcoming Parks & Open spaces strategy with this strategy		Planning, Regeneration and Leisure Services	To be confirmed when the open spaces strategy is complete	Better health and well-being outcomes for residents through improved access to open spaces / opportunities to engage with the natural environment	Opportunities for funding should be explored with Worcestershire County Council, such as the 'Natural Networks' scheme.

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Review local plan where there is particular reference to renewables / provision for renewables in the future or heat networks		Planning, Regeneration and Leisure Services.	To coincide with local plan review dates.	Ensures that local plan is in line with the other districts to avoid inconsistency in requirements for low & zero carbon technologies.	Good opportunities for learning and sharing best practice with the other districts of Worcestershire and beyond.
Reduce waste production across the borough		Environmental Services	ongoing	Co- benefits include reduction in direct emissions, but also fleet mileage of refuse collection vehicles leading in improvements to local air quality	Ongoing work with learning opportunities available from other local authorities.

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Encourage zero carbon and sustainability through the supply chain		Finance & Customer Services / all service areas	Ongoing	Encourages further carbon savings where the council has influence and is a step towards addressing scope 3 emissions	This measure will be incorporated into the forthcoming 'Social Value Policy' This is also currently the subject of a study to produce template documents and procedures by GBSLEP.
Assess all existing assets and new assets for suitability for renewable energy generation and energy storage		Housing Property Services / Legal, Democratic & Property Services	Ongoing	New generation opportunities can contribute to the overall target and lead to cost savings / incomes for the council.	Ensures new opportunities are not missed, some of this work has been completed as part of a wider building energy audit process. Any projects identified will be subject to a detailed business case accompanying the proposal.

Measure	Estimated annual saving in tonnes CO <sub>2</sub>	Service area	Target Completion Date / Review Date	Co- benefits	Comment
Evaluate current e-micro - mobility pilot in Redditch (e-scooters) with a view to establishing a more permanent scheme		Planning, Regeneration and Leisure Services	To be confirmed when the current trial is complete	Increased mobility for residents without access to their own transport/ improved access to education and employment opportunities	Learnings from other Councils experience with cycle hire and micro mobility. Carbon savings can be estimated from the results of the evaluation. This project will require a report to Executive Committee regarding options and costs
Complete Carbon Literacy training for Corporate Management Team, 4th Tier managers and Councillors		All service areas	Ongoing	Better understanding of carbon reduction and related issues will	This programme is almost complete and the majority of CMT and tier 4 managers have received this training. Councillor training is being rolled out in 2022.