

CLIMATE CHANGE ACTION PLAN

Taking action for a net zero future





CONTENTS



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Foreword	4
1 Context	5
Vision	5
About West Dunbartonshire	5
2 National and Regional Drivers	6
The legal and policy drivers	6
Climate Change Strategy and Action Plan	6
Glasgow City Region - Climate Adaptation Strategy and Action Plan	7
3 Local Context	8
Scope of Action Plan	8
Opportunities and Challenges	8
Integration	9
Local Climate Change Risk and Vulnerability	9
Strategic Environmental Assessment	10
4 Themes and Actions	12
Actions	12
Overarching Actions	13
Energy, Water & Assets	14
Housing	15
Waste & Circular Economy	16
Sustainable Travel	17
Sustainable Procurement	18
Biodiversity, Greenspace & Landscape	19
Climate Impacts, Risk & Adaptation	20
Schools & Education	21
Communities & Health	22
5 Delivery and Monitoring	23
Governance	23
Reviewing Progress	23

FOREWORD



Councillor Iain McLaren,
Convener of Infrastructure,
Regeneration and Economic Development

I am delighted to introduce West Dunbartonshire's new Climate Change Action Plan, which sets out the immediate and longer term actions the Council will need to take to respond to the climate emergency, both in relation to reducing Greenhouse Gas (GHG) emissions and adapting to the impacts of climate change up to 2045.

It is vital that we take action now and play our part in the global effort to reduce the impacts of Climate Change. In April 2019, the Scottish Government declared a climate emergency, highlighting that serious changes in our society are needed to address this most urgent of issues. Furthermore, the latest report from the Intergovernmental Panel on Climate Change (IPCC) published in August 2021 highlights a 'Code Red for Humanity', confirming that it is indisputable that humans are warming our planet.

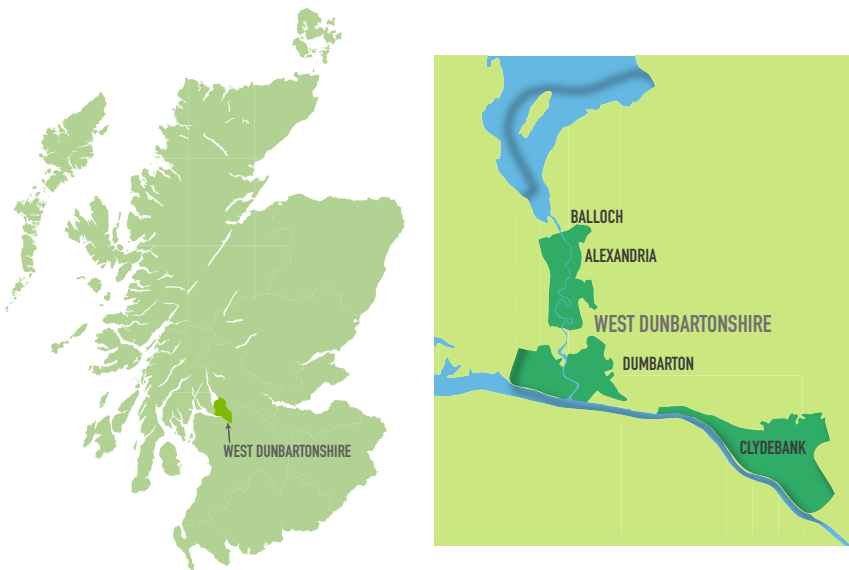
The aim of this Action Plan is to build upon the existing environmental work the Council is undertaking, which has included looking at how we use and provide energy; encouraging our employees to be more environmentally friendly; developing biodiversity sites throughout the area and taking steps to manage and reduce the Council-wide carbon footprint.

This new Climate Change Action Plan will implement our recently launched Climate Change Strategy through a series of actions for the short, medium and long term.

It will transform the way we operate as a Local Authority, integrating climate change mitigation, adaptation and sustainability measures into our operations as well as empowering our communities to take their own action to make change. It illustrates the initial steps we will take to reduce the environmental impacts and associated emissions from our own operations, and how we will transform the way we protect our community and infrastructure from the impacts of Climate Change.

Furthermore, it demonstrates our commitment as a 'major player' for mitigating national carbon emissions by supporting the Scottish Government in meeting its ambitious climate change targets. I am confident that these commitments will allow us to continue to make progress on tackling climate change locally, while also supporting national and global efforts. I look forward to joining forces with our communities to see it progress.

01 CONTEXT



Vision

In January 2021, the Council launched a new Climate Change Strategy in response to the global climate emergency, setting a long term target for West Dunbartonshire becoming net zero by 2045, following a similar trajectory to the national target set for Scotland as a whole.

This Climate Change Action Plan sets out the immediate and longer term actions the Council will take to respond to the climate emergency, both in relation to mitigating and adapting to climate change. This plan will implement the Council's Climate Change Strategy (2021) through a series of high-level actions for the short, medium and long term, setting out the need for action and a high level framework.

The proposed local actions set out in this Action Plan seek to build on national and regional level actions to tackle the climate emergency. These actions have been developed by the Council's Climate Change Action Group in consultation with each of the Council's service areas and have been subject to a Strategic Environmental Assessment (SEA) in accordance with the Environmental Assessment (Scotland) Act 2005.

About West Dunbartonshire

West Dunbartonshire Council is a Local Authority in the West of Scotland, sitting between Glasgow and the Loch Lomond & Trossachs national park

and often considered the gateway to the Scottish Highlands. With a population of just below 89,000 and an area of 68 sq. miles, West Dunbartonshire is a small Council both in terms of population and land coverage. However, despite its size, West Dunbartonshire boasts a diverse range of land uses, natural and built resources, and a mix of dense urban form, rugged moorland and spectacular watercourses.

The Council is responsible for provision of a range of services to its residents and citizens, which includes the collection of waste and recycling, the provision of schools and education, the management of planning and building standards, the provision of libraries, street lighting, and the collection of council taxes.

In delivering these functions, the Council owns and operates a large built estate. As highlighted in our Climate Change Strategy, energy consumption from our buildings and operations are responsible for approximately 44% of our carbon footprint; 47% of our overall footprint results from the waste and recycling of West Dunbartonshire (both operational and domestic household waste); and 9% from both council and staff vehicles and the operation of other equipment, such as grass cutters. The Council also has responsibility to ensure it is delivering on Climate Change targets in line with national Climate Change policy.

02

NATIONAL AND REGIONAL DRIVERS



The legal and policy drivers

In a drive towards a low carbon economy, the Scottish Government set world leading Climate Change targets to reduce Scotland’s carbon emissions by 80% by 2050, with an interim reduction of 42% by 2020. In 2014 this interim target was met and exceeded (45.8%), originally leading to a new target set for a reduction of 50% for 2020. These targets present Scotland with significant social and economic opportunities, as well as challenges, and required a range of actions across society and the economy. The Climate Change (Scotland) Act 2009, which details these targets, is regarded as one of the most ambitious Climate Change legislation in the world.

The Climate Change (Scotland) Act 2009 places duties on all public bodies to contribute to emission reduction targets deliver programmes to increase resilience against Climate Change, and to act in a ‘Sustainable’ way. Under the act, the Council is identified as a ‘Major Player’ due to its size and influence and therefore must submit a mandatory climate change report to Scottish Government (SG) on an annual basis, detailing the actions planned to reduce our environmental impacts. These duties came into force in 2011, which led to the launch of the Council’s first Climate Change Strategy in 2012.

Climate Change Strategy and Action Plan

In January 2021, the Council launched a new overarching Climate Change Strategy, as a Route

Map to reaching our national climate change targets. This project was commissioned in response to the Climate Emergency, announced by Scotland’s First Minister in 2019, followed by the ‘Climate Change (Emissions Reduction Targets) (Scotland) Act 2019’, detailing new emission reduction targets for Scotland nationally:

- 56% reduction by 2020 (replacing the original 50% target);
- 75% reduction by 2030;
- 90% reduction by 2040; and
- ‘Net Zero’ emissions by 2045.

The commissioning of the project aligned with the renewal of the Council’s Energy Strategy and Carbon Management Plan, providing an ideal opportunity to integrate all documents into one Climate Change Strategy. Whilst the climate emergency has focused minds and the scale of change required is now greater, climate action isn’t a wholly new project for the Council, particularly because of the previous Climate Change documents as previously mentioned.

The Council’s Climate Change Action Group was also relaunched. This provided an opportunity to invite new members from all internal service areas, ensuring that climate change responsibilities could be devolved to service areas to better deliver climate action across the Council to successfully achieve our 2045 net zero target.

Whilst the Climate Change Strategy provides a route map on how the Council intends to achieve net zero emissions by 2045, this Climate Change

Action Plan provides detailed actions on how we will deliver and monitor our Climate Change efforts to make West Dunbartonshire net zero by 2045.

This scope of the plan focuses on:

- **Mitigation** – reduction of public and operational greenhouse gas (GHG) emissions (principally carbon dioxide);
- **Adaptation** – understand, evaluate and respond to climate risks and the impacts of climate-related hazards in our local area; and
- **Sustainability** – wider actions to improve environmental, social and economic outcomes to meet our own needs without compromising the ability of future generations to meet their needs. This includes sustainable use of natural resources and action to improve the quality of the natural environment.

Delivery of this Action Plan will require wider engagement with the staff and public on environmental challenges. The Council wants to encourage and drive wider climate action across our organisation (internally) and West Dunbartonshire (externally), including (but not limited to) community groups, businesses, landowners, infrastructure, the wider public and other necessary stakeholders.

The actions in this plan have been arranged under 9 key themes (including 1 ‘overarching’ theme) as defined in the Climate Change Strategy. An additional theme was identified through the Strategic Environmental Assessment (SEA), which details actions that are ‘overarching’ across West Dunbartonshire, bringing the total amount of themes up to 10. These thematic actions are cross-cutting and will involve multiple council service areas, sharing the responsibilities of climate action across Council operations. Some actions are designed to inform and help shape the development of other relevant Council plans and strategies to address climate risks.

Detailed information regarding how the Council plans to prioritise, monitor and deliver these actions is set out later in this document.

Glasgow City Region – Climate Adaptation Strategy and Action Plan

Climate Ready Clyde (CRC) is a cross-sector initiative funded by the Scottish Government and 15 member organisations to create a shared vision, strategy and action plan for an adapting Glasgow City Region (GCR). The Council is a key member of this initiative and assists in the development and delivery of relevant Adaptation action across the Glasgow City Region.

Climate Ready Clyde developed the first Climate Adaptation Strategy & Action Plan for the GCR and was launched in June 2021, informing the ‘Climate Impacts, Risk & Adaptation’ theme in this action plan.

The GCR Climate Adaptation Strategy sets out a regional approach seeking to ensure that Glasgow City Region’s economy, society and environment is not only prepared for, but continues to flourish in the face of the impacts arising from the climate crisis. In this context, the strategy:

- Outlines the processes and early interventions needed to manage climate risks and realise opportunities;
- Provides a strategic framework for Adaptation in and by the Glasgow City Region that fits alongside and supports key plans, policies and activities to enable delivery;
- Sets out how we will deepen and expand collaboration and collective impact by working together and engaging, equipping and enabling citizens and organizations to play a role in realising the vision; and
- Sets out how progress in increasing climate resilience will be monitored, evaluated and learnt from to improve policies, strategies, programmes and projects.

The strategy is supported by an Action Plan which defines key actions being taken across the City Region between 2020 and 2025, as well as longer term actions. This regional level strategy provides a clear foundation by identifying priorities and flagship Adaptation actions, which have informed the development of our local level action plan and which our plan will help to implement.

03

LOCAL CONTEXT



Scope of Action Plan

The scope of this Climate Change Action Plan covers mitigation, Adaptation and sustainability actions (as defined by the Climate Change (Scotland) Act 2009), addressing both:

- The Council’s ‘internal’ impacts and performance – emissions and Adaptation risks associated with the delivery of Council services, and the achievement of the emissions reduction target set out in the Council’s Climate Change Strategy; and
- Wider ‘external’ impacts which are influenced but not directly controlled by the Council – emissions, climate risks and wider sustainability issues affecting communities, businesses and the environment across West Dunbartonshire.

The proposed actions set out in this Action Plan have been developed and agreed by the Climate Change Action Group in consultation with all service areas of the Council.

The Council’s cross-service Climate Change Action Group will monitor the implementation of this Action Plan and lead the development of future plans, which may include accounting for ‘external’ emissions. This would need to account for factors including the local socio-economic context for West Dunbartonshire, as well as several challenges that may limit delivery of Climate Change action at a local level.

It is important that the Council involves local residents in our collective journey to net zero,

ensuring that continued community engagement with local groups and residents empowers them to take action for our environment.

Opportunities and Challenges

The preparation of this Action Plan has been informed by a review of opportunities and challenges which both influence and limit the ability to deliver local climate action (mitigation and Adaptation). Identified challenges include (but are not limited to):

- **Funding availability** – delivery of many actions will require resources, capital works and investment by the Council – e.g. enhanced energy efficiency measures, and heating and renewables projects in both domestic and non-domestic building assets.
- **Funding approach** – a combination of internal and external funding sources will be needed to deliver climate action at scale. Short term funding mechanisms such as annual payback of Council expenditure presents difficulties for delivering long term projects. Climate Change investments also need to take account of whole-life costs including reduced maintenance costs and avoided Adaptation costs.
- **Internal capacity** – limited staff time and availability, largely due to reduced Council budgets, further impacted by Covid19.
- **Skills** – requirement to upskill and train existing staff or source new staff and/or consultancies with more in-depth specialised

- experience of Climate Change projects.
- **Communication** – both internally (to avoid ‘silo’ working) and externally (engaging with the public and keeping abreast of local/national/international changes to policy).
 - **Economics** – some technologies, materials and skills are still very expensive so innovation must progress to enhance the viability of climate actions within the context of the Council’s budget constraints.
 - **Strategy and planning** – all existing and future Council plans should place responding to the climate emergency at their core and ensure integration with other Council services.
 - **Legislation & Regulatory** – the ability to implement some climate actions is constrained at the local level by minimum standards and other restrictions set through legislation and national policy, for example in relation to building regulations and procurement.
 - **Public attitudes and behaviours** – Changing behaviour of residents, businesses and stakeholders positively and proactively, especially where there are cost implications to the delivery of climate actions.

Integration

The preparation of this Action Plan has been informed by relevant existing and emerging plans including the Scottish Government’s Climate Change Plan 2018 – 2032 (updated 2020), Adaptation Scotland’s Adaptation Capability Framework and the Glasgow City Region Adaptation Strategy and Action Plan. Other relevant plans include national planning and energy policies alongside the Council’s Local Development Plan and delivery plans prepared by each of the Council’s service areas.

This Action Plan is therefore designed to integrate with all relevant existing and emerging national, regional and local plans and strategies, both in terms of aligning with and informing the preparation of other plans. At a local level, other plans prepared by the Council will also influence the delivery of individual actions identified in this Action Plan, including in terms of their resourcing, phasing and monitoring.

Local Climate Change Risk and Vulnerability

The effects of climate change (climate risk) are not experienced equally around the globe as the probability of a climate related event occurring (such as flooding or temperature rise) is dependant on several factors. The impact of an event occurring is also affected by vulnerability (the degree to which assets, buildings or communities will be affected by hazards due to their exposure, sensitivity, and adaptive capacity). Climate risk is therefore not the same in every town or city around the world. The probability of specific hazards occurring, and the level of vulnerability (as well as capacity to act) are important factors when considering the risks which climate change poses to West Dunbartonshire, including specifically risks to the future delivery of the Council’s services.

The West Dunbartonshire Climate Change Strategy (2021) provides detailed information regarding the Council’s carbon emissions footprint, which has been used to develop targeted mitigation actions as detailed within this Action Plan. To provide a similar evidence base for Adaptation actions and to ensure that climate risks to the delivery of Council services are identified and addressed, this Action Plan includes a commitment that the Council will undertake a local climate change risk and vulnerability assessment (CCRVA), with the outcomes used to shape the development of future Adaptation actions.

A CCRVA¹ has been conducted for the wider Glasgow area to inform the first Climate Adaptation Strategy for the GCR. Whilst the Strategy identifies relevant priorities and Flagship Actions which have informed this Action Plan, the regional framing of the document precludes detailed consideration of local risks within West Dunbartonshire. This Action Plan therefore commits the Council to undertaking a local Climate Risk and Vulnerability Assessment in order to assess climate risks to the future delivery of services, inform the implementation of actions detailed in this Action Plan and support the development of further actions.

To inform a local level CCRVA the Council will use data from CRC, Adaptation Scotland, SEPA, the Met Office and other relevant sources to develop a geographical approach to understand high risk-areas and assess specific impacts on the delivery of Council services. The assessment will also consider the Council's capacity and identify areas for improvement to act by benchmarking against Adaptation Scotland's Adaptation Capability Framework. Once completed, this assessment will support the development of a live climate risk register which will allow the Council to be proactive in developing and delivering locally appropriate mitigation and Adaptation actions based on identified opportunities, risks and vulnerabilities. The climate risk register will be monitored by the Council's Climate Change Action Group in response to internal and external developments.

Strategic Environmental Assessment

All proposed actions have been refined and tested as part of a Strategic Environmental Assessment (SEA) carried out on the emerging Action Plan in accordance with the Environmental Assessment (Scotland) Act 2005. The SEA process has been used as a plan-making tool to inform the Action Plan, rather than simply being a statutory reporting exercise. This has allowed the environmental, social and economic implications of all proposed actions to be tested at the earliest opportunity and for any uncertainties, issues or mitigation requirements identified during the impact assessment process to be addressed during plan preparation. In addition to meeting statutory requirements, this process has helped to maximise the performance of and more generally improve the quality of the Action Plan.

The draft Action Plan was published for consultation for the SEA governing bodies and wider public to respond, alongside a SEA Environmental Report in 2021. This demonstrated how the SEA process informed the development of the Action Plan, including the incorporation of recommended changes within the document prior to publication. As a result, the Environmental Report concluded there is good coverage of all key environmental issues in the Action Plan and that the suite of proposed actions are appropriate and likely to be effective in responding to the climate emergency at a local level.

¹A CCRVA is a tool that can be used to evaluate climate related hazards specifically in a local area. This can then assess the local level of risk and vulnerability, in order to identify suitable mitigation/adaptation measures.

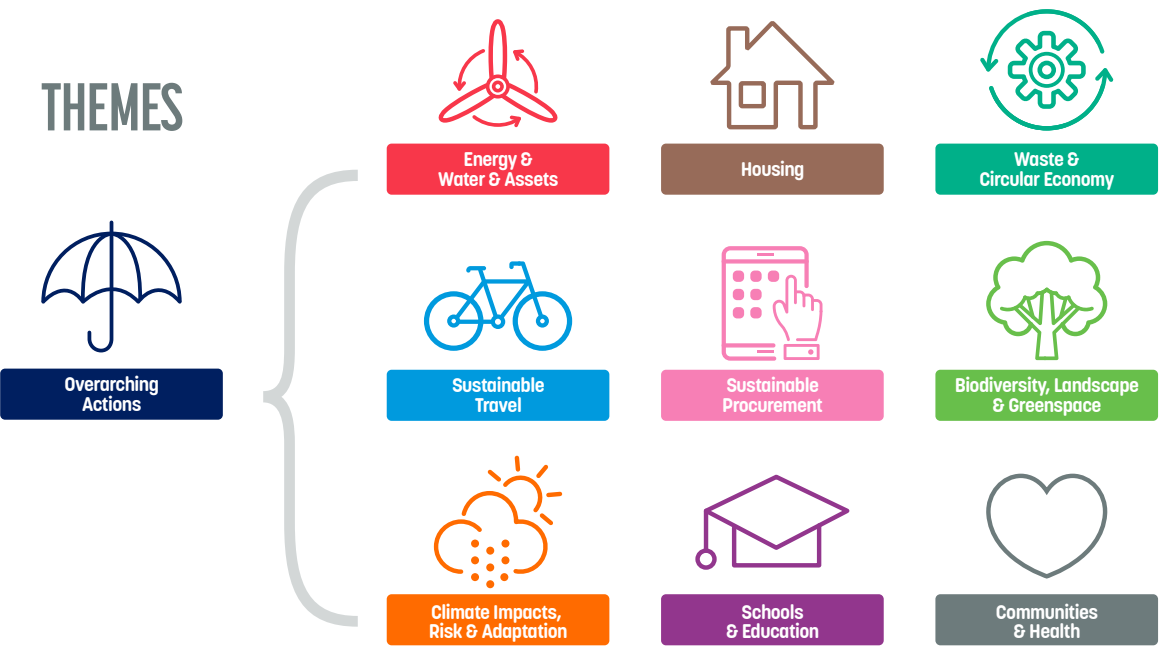


04

THEMES AND ACTIONS



10 key themes have been identified to address climate change for West Dunbartonshire.



Actions

Under each key theme the Council has identified a suite of actions with engagement and input from a wide range of internal service areas. Each action is summarised in the following tables.

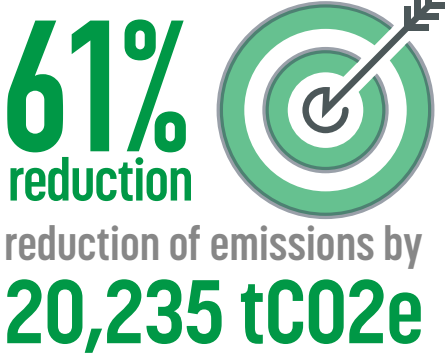
A limited set of Priority Actions are set out under each theme (highlighted in **green**); these represent actions which are considered essential to the achievement of targets specified in the Council's Climate Strategy and are planned for delivery within the first 3 years of the Action Plan's lifetime (post approval). A wider set of proposed longer term actions which are intended to be commenced within the full 5-year lifetime of this Action Plan, and where appropriate may be further developed or carried forward into the Council's next Action Plan, are also identified.

If you require a more detailed breakdown of how these actions will be delivered then please refer to the appendix at the end of the action plan.

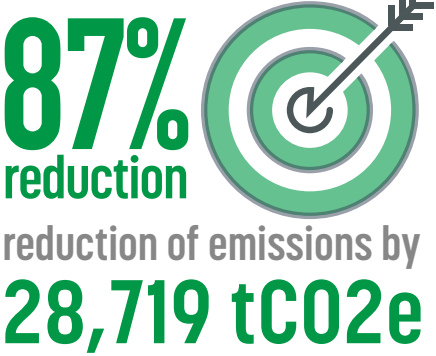
Overarching Actions

- The Council will be 'net-zero' by 2045, with interim carbon reduction targets of 61% by 2030-31 and 87% by 2040-41.
**'net zero' – a state of balance between emissions and emission reductions (physical removal of emissions from atmosphere).*
- Where the complete reduction or avoidance of emissions are not achievable, adopt a responsible approach to carbon offsetting initiatives where necessary to address residual unavoidable emissions. Ensure that the chosen scheme is to a 'Woodland Carbon Code' standard or similar.
- Develop a proactive and responsive Green Champions network across the organisation to empower staff and respond to the targets and actions set by the Climate Change Action Group.
- Ensure energy and carbon management objectives are mainstreamed within the Council's strategic and operational decision-making.

Interim target by 2030/31



Interim target by 2040/41



by 2045/46

Energy, Water & Assets



The Council will continue to take action to reduce energy consumption and improve energy and water efficiency in our buildings and across our operations. We will also take into account the rationalisation and improved utilisation of our offices, depots and other buildings, ensuring that we respond adequately to the green recovery of the Covid19 pandemic and futureproofing our assets for net zero.

The Council has also developed a pilot Local Heat and Energy Efficiency Strategy (LHEES) and report to improve our efforts, which will set the strategy and framework for reducing energy demand and decarbonising the heat supply in the Clydebank area and Queens Quay heat network.

The LHEES aims to establish area-based plans and priorities for improving the energy efficiency of buildings, and decarbonising heat. These will then be developed and expanded to other areas across West Dunbartonshire, a first step in the developing and adopting a wider 20 year strategy that will strive towards achieving net zero emissions from buildings by 2045, and removing poor energy efficiency as a driver for fuel poverty.

- Set a new annual reduction target for all energy consumption in our Council buildings, which exceeds the Council's current target.
- Deliver recommendations identified through the Council's pilot Local Heat and Energy Efficiency Strategy (LHEES)*, which will set the strategy and framework for reducing energy demand and decarbonising the heat supply of buildings in the proposed Clydebank area. This will underpin the Council's approach to energy efficiency going forward.
** For more information on our LHEES for Clydebank, please refer to our Climate Change Strategy and supporting report.*
- Develop further LHEES for all areas of West Dunbartonshire – in line with mandatory requirements from Scottish Government.
- Develop and implement a Council energy reduction strategy for Council buildings.
- Develop and implement a Council water consumption reduction strategy for Council buildings.
- Review the Council's estate to explore the full potential for installation of renewable energy technologies. Where feasible and cost effective, accelerate the implementation of renewables projects.
- **Develop and implement a Renewable Energy Strategy.**
- **Where feasible and cost effective, the Council will continue to optimise the use of existing assets and buildings, prioritising building retrofit, adaptation, re-use and maintenance over new construction.**

Housing



The Council will continue to reduce energy consumption and improve energy efficiency in our social housing and fuel poor households, ensuring fuel poverty and the decarbonisation of housing are key to achieving a net zero carbon future.

This will require the implementation of further energy efficiency improvements to all existing domestic council stock and future developments, whilst minimising overheating risks and ensuring future resilience to the impacts of climate change.

- Continue to improve energy efficiency in social housing. Identify and implement further energy efficiency improvements to existing domestic council stock and future developments, whilst minimising overheating risks.
- **Where feasible, we will consider options to retrofit, renovate and maintain existing domestic buildings over the construction of new buildings and developments.**
- Where feasible and cost effective, implement domestic building sustainability, energy efficiency or design standards which go beyond standard mandatory regulations. In all decisions and practices the Council will encourage housing delivery (both Council led and external) to demonstrably contribute to the achievement of net zero emissions by 2045.
- **Identify and test a holistic housing project to tackle fuel poverty and climate change in tandem using alternative fuel sources (e.g. Solar Panels). This pilot will help inform the approach to domestic housing across West Dunbartonshire.**



Waste & Circular Economy

The Council will take action to manage waste sustainably by reducing, reusing, recycling and recovering waste to improve resource efficiency whilst working towards a circular economy.

A circular economy is part of the solution to our global climate emergency – one in which products, services and systems are designed to maximise their value and minimise waste. It’s an all-encompassing approach to life and business, where everything has value and nothing is wasted (Zero Waste Scotland, 2016).

Transitioning to a Circular Economy and enhancing resource efficiency is very important to mitigating against Climate Change, as reducing the amount of packaging we use and the avoidance of all waste going to landfill greatly reduces Greenhouse Gas emissions going into the atmosphere, particularly from Methane (CH4) which emits from landfills/dumps and is much more potent than Carbon Dioxide (CO2).

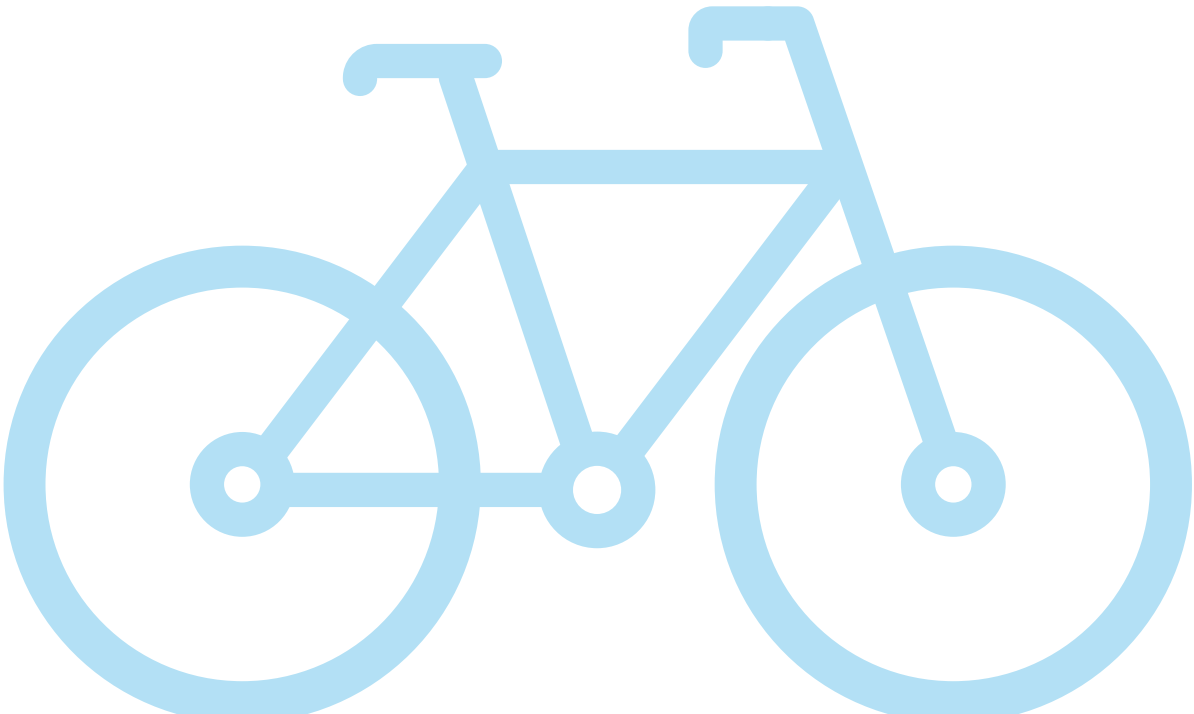
Action must also be taken on waste from domestic households, researching ways to transition to a zero waste and circular economy by supporting national efforts to eradicate waste to landfill.

- Implement and monitor a new Circular Economy and Waste Reduction Strategy for West Dunbartonshire – detailing how the Council will help reduce, reuse and recycle, detailing corporate standards, targets and staff guidance for our waste activities, including improving infrastructure.
- Develop a new Materials/Resources Transfer Station for West Dunbartonshire.
- Research and implement alternative and/or innovative waste recycling and circular economy facilities and projects, e.g. for Anaerobic Digestion (AD) and similar technologies.
- Undertake a review and implement recommendations (where feasible) to further reduce food waste and food miles in all council buildings and schools.
- For procurement activities under £50k, ensure no single-use plastics (SUP) items are purchased or used within Council schools and buildings, and where feasible, purchase more sustainable alternatives or adapt behaviours to reduce the need for these options.
- All WDC staffed sites to include waste segregation facilities at source (where feasible), encouraging staff towards recycling and circular economy practices by providing the required infrastructure and signage.

Sustainable Travel

The Council will take action to encourage active travel through walking, cycling and public transport and deploy sustainable alternatives to decarbonise transport for both the public and for the Council.

- Expand Electric Vehicle (EV) charging points and infrastructure across the Council estate – where feasible.
- Expand Electric Vehicle (EV) charging points and infrastructure across West Dunbartonshire – where feasible.
- Consolidate and reduce the Council’s pool fleet, ensuring that remaining fossil fuel fleet are replaced with Ultra-Low Emission Vehicles (ULEVs) or Zero Emission Vehicles (ZEVs) where technically feasible.
- **Adopt and take action to implement Sustainable people, places and connections, for both WDC staff and for communities across West Dunbartonshire.**
- Expand Cycle Friendly Employer (CFE) assessments to more sites and support increased infrastructure whilst improving access to, and availability of, pool bikes, electric bikes and associated schemes for staff.
- Expand and improve ICT software and technologies to enable staff to enable agile working to reduce staff commuting and associated environmental impacts.



Sustainable Procurement



The Council will take action to meet the needs for goods, services, works and utilities in a way that achieves value for money on a whole life basis in terms of reducing carbon emissions, generating benefits for society and the economy and minimising damage to the environment. However, action in this area at the local level is limited as it is dependent on effective statutory provisions, policies and guidance at the national level to support the Council (and other Public Bodies) in implementing sustainable procurement practices.

With this in mind, the Council will adhere to existing Scottish Government guidance, legislation and procurement practices such as the Scottish Sustainable Procurement Action Plan, Sustainable Procurement Guidance and the Procurement Reform (Scotland) Act 2014. Where feasible and cost effective, the Council will make efforts to go beyond this and drive further sustainability benefits from procurement practices.

- Develop Sustainability Procurement guidance and promote their implementation throughout the Council.
- Develop a pilot to review a supply chain stream or procurement exercise for goods or services or contracts/tenders, reviewing overall carbon emissions and environmental impacts from cradle to grave.
- Promote a sustainable approach to procurement of appliances and equipment based on energy efficiency and wider sustainability credentials rather than solely cost.

Biodiversity, Greenspace & Landscape



The Council recognises the impact of climate change on biodiversity and will make efforts to conserve and enhance biodiversity across a range of habitats and provide health and wellbeing benefits for all residents and reduce our environmental impacts.

This means the Council needs to embed biodiversity and landscape management into organisational targets by ensuring that it is considered in all appropriate decision-making. Biodiversity, Greenspace and Landscape, like any other climate change interventions, should be integrated into what the council does both operationally and through positive behaviours.

This approach will aid in the development of more resilient greenspaces and infrastructure for the both the Council and the wider public, improving Adaptation practices and ensuring Adaptation measures protect greenspaces and infrastructure against the impacts of Climate Change.

- Approve and implement LDP2 Green Network and Green Infrastructure planning guidance, including reviewing further opportunities for green infrastructure improvement. This will be informed by engagement with relevant consultees including NatureScot.
- Analyse the habitat and sequestration benefits of existing trees and flora across the West Dunbartonshire area to better understand how the Council (with partners) can increase Greenhouse Gas (GHG) sequestration
- **Develop a new Local Biodiversity Action Plan (LBAP), including initiatives to support Climate Change mitigation, Adaptation and sustainability across West Dunbartonshire.**
- Review vacant brownfield and greenfield sites to identify their potential to adopt a green infrastructure first approach and/or integrate nature based solutions (where appropriate) in order to limit the impacts of Land Use Change (LUC).



Climate Impacts, Risk & Adaptation



The council will make our communities, green networks and infrastructure more adaptable to a changing climate and reduce the risks and vulnerability to unavoidable impacts.

- **With support from Climate Ready Clyde (CRC) and wider Glasgow City region (GCR), deliver flagship actions as highlighted in the GCR Adaptation Strategy, where feasible and relevant.**
- The Council undertake an internal Climate Risk and Vulnerability Assessment to both shape the implementation of high level actions defined in this action plan and inform the development of further climate action (i.e. the next action plan).
- **Benchmark the Council against Adaptation Scotland’s Adaptation Capability Framework to identify current position and areas for improvement.**



Schools & Education



The council will work more closely with schools and Council staff to better consider the environment and Climate Change in all operations; to act in a Sustainable way; and to educate and empower pupils to take action on Climate Change to influence future generations.

- Ensure all schools achieve Eco-Schools Green Flag status by 2025. Increase participation in the Eco Schools programme via improved local support and pilot projects with appointed schools.
- Climate Change and Sustainability embedded into staff continued personal development (CPD) plans, ensuring that mandatory learning is implemented for all new and existing staff. This will also involve training for Councillors and senior officers.
- Review gaps in staff knowledge on Climate Change and develop training sessions for staff to encourage net zero behaviours.

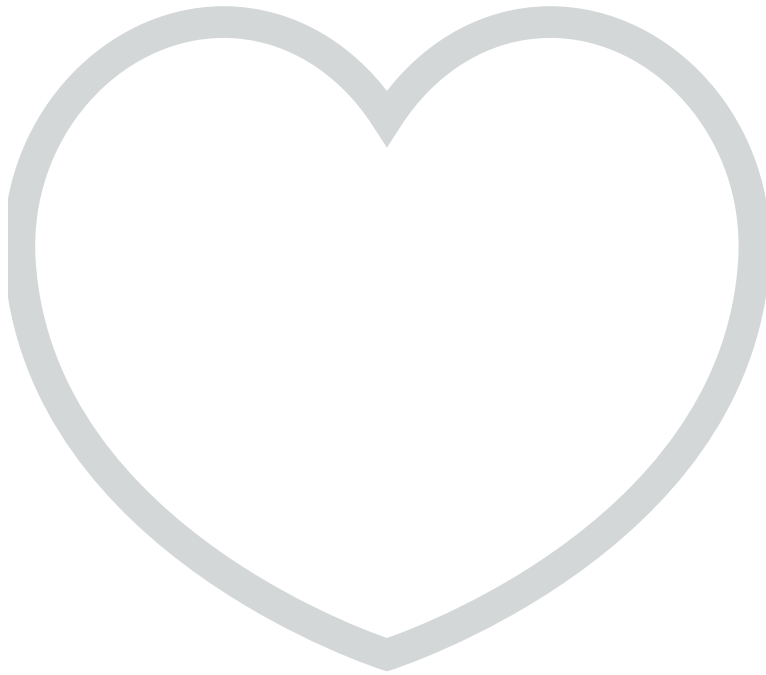
Communities & Health

The Council will take action through positive engagement with equality groups and the wider community, including (but not limited to) local businesses and health & social care partnerships. This will be achieved through engagement with, and empowerment of, the wider public across West Dunbartonshire.

Better understanding the impacts of Climate Change and extreme weather events on the personal health will help to stress the need for supporting residents through improving building fabric and improving local air quality, etc.

Community engagement will include the development of a Climate Change community forum to have a more proactive engaged discussion with the local community and equality groups, etc. This can be used to inform action and for the Council to understand what local residents want relating to climate action. The engagement with community is an important part of supporting local residents to help achieve a better local environment and net zero future.

- Develop a Climate Change Community Forum to underpin more proactive and engaged discussions with and climate actions by the local community.
- Support West Dunbartonshire businesses in becoming carbon neutral and climate resilient.



05 DELIVERY AND MONITORING



Governance

Successful implementation of the Climate Change Action Plan will require internal governance at strategic and operational levels. Much like the Council's Climate Change Strategy, this Action Plan is a cross-service document that sets out shared responsibilities, with specific actions being owned by a relevant lead service area and implementation supported by other relevant service areas. The Climate Change Action Group was launched to ensure delivery, being led by the Council's Sustainability Team and involving senior management from each of the Council's service areas, ensuring shared responsibility of climate targets and objectives for their own service areas.

The Climate Change Action Group will be accountable for the operational delivery of this Action Plan. This group will measure progress by each service and will ensure climate change targets and objectives are being met. These will be measured annually through the Council's internal performance system to ensure ownership, and to delegate responsibility across service areas. In turn the Climate Change Action Group will report to a senior governance board on an annual basis, ensuring both service leaders and relevant staff are delivering on climate action effectively.

The long term nature of this Action Plan allows time to deliver a range of climate mitigation, climate Adaptation and wider sustainability actions up to 2045. Deliverables can be amended or revised periodically as national or international climate change measures change, with actions being allocated accordingly.

Reviewing Progress

It is essential that all Council service areas play their part in implementing this Action Plan, which has been co-produced with involvement from all services. The implementation of the Action Plan will be tracked through quarterly meetings of the Council's Climate Change Action Group and reviewed annually, with additional targets and implementation details developed if necessary. Every 5 years the Action Plan will be subject to a full review, resulting in the preparation of an updated Action Plan.

In accordance with statutory requirements a monitoring framework will be prepared as part of the to provide a mechanism to confirm the effectiveness of delivering individual actions as set out in the Action Plan, and to identify associated environmental effects. The monitoring framework will also further specify delivery mechanisms associated with individual actions and to review the overall implementation of the Action Plan.

The role of the Council's Sustainability Team is to coordinate, stimulate and motivate Climate Change action across all service areas and functions.



Appendix 1 – Detailed Action Tables

Each thematic table is broken down into the following headings to illustrate how we intend to deliver climate change related actions to achieve net zero greenhouse gas (GHG) emissions by 2045.

- **ACTION** – the Climate Change action identified for delivery.
- **SCOPE** – this identifies the parameters of each action to enable the action to be understood and implemented as intended. Scope details include key parameters, boundaries and task breakdown (high-level). It provides detail explaining what each action is and how it will be implemented.
- **TIMESCALE** – proposed timescale of action and breakdown of stages (*if action is multi-stage*).
- **FOCUS** – if the action is internally or externally focussed, or both. Is it mitigation, adaptation or sustainability driven?
- **SERVICE LEAD and SUPPORTING SERVICE AREAS** – i) Council service area leading on action and ii) Other relevant service areas/departments who need to be involved in implementation.
- **STAKEHOLDER ENGAGEMENT** – list other relevant stakeholders (*non-Council services*).
- **RESOURCING** – funding or other resourcing (*e.g. staff*) requirements.
- **MONITORING** – relationship between each action and the Climate Change Strategy. Defined indicators for monitoring framework to track progress and success.

Priority Actions are set out under each theme (**highlighted in green**); these represent actions which are considered essential to the achievement of targets specified in the Council's Climate Strategy and are planned for delivery within the first 3 years of the Action Plan's lifetime (post approval). A wider set of proposed longer term actions which are intended to be commenced within the full 5-year lifetime of this Action Plan.

Energy, Water & Assets

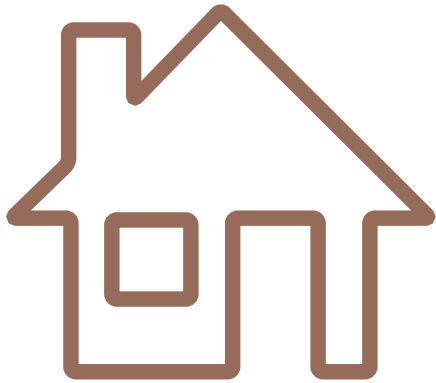


Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Set a new annual reduction target for all energy consumption in our Council buildings, which exceeds the Council's current target.	The Energy & Compliance team will review existing internal energy target and agree what target could be realistically achieved, where feasible and cost effective. Building on the Council's existing spend-to-save approach, the Council will use Monitoring & Targeting (M&T) on buildings and assets with irregular energy consumption and patterns. This will inform the development of a new energy reduction target based on our current baseline which was reset by the Climate Change Strategy. This will be directly influenced by new working environments and patterns as a result (at least in part) of the Covid19 pandemic - such as the consolidation of buildings, staff remote working, and requirements for staff to change their behaviours to support the transition to net zero, etc. Ensure that this target is focussed on all service areas, and to highlight that this is not the sole responsibility of the Energy & Compliance team.	2021 – 2026 (Long-term target of 2045)	Corporate	Energy & Compliance Asset Management; Organisation Wide	Scottish Energy Officers Network (SEON) Scottish Government	Council Capital Council Revenue Scottish Government funding: LCITP; GGA Energy Savings Trust (EST) SALIX	Currently monitored on an annual basis alongside carbon reduction targets - this is reported to Scottish Government through mandatory climate change reporting. Monthly Monitoring & Targeting (M&T) of high energy consumers to inform decision making. Scottish Government Targets: Phase out the installation of all new gas boilers by 2035 at the latest.
Deliver recommendations identified through the Council's pilot Local Heat and Energy Efficiency Strategy (LHEES)*, which will set the strategy and framework for reducing energy demand and decarbonising the heat supply of buildings in the proposed Clydebank area. This will underpin the Council's approach to energy efficiency going forward. * For more information on our LHEES for Clydebank, please refer to our Climate Change Strategy and supporting report.	Utilise traffic lighting approach recommended as part of the LHEES. Use this to identify additional connections to the DHN, to make energy efficiency improvements and tackle fuel poverty. Recommendations of the LHEES will then help develop the scope, criteria and approach for Clydebank and it's assets. From results of the pilot LHEES, and with advice from Scottish Government, will develop LHEES for all areas of West Dunbartonshire - in line with mandatory requirements. Approach and scale may change depending on lessons learned and the outcome of our pilot approach.	2021 – 2026 (Long-term target of 2045)	Corporate; Wider Community	Energy & Compliance; Asset Management; Housing Planning; Regeneration; DLO; Education; GIS; Organisation Wide	Scottish Energy Officers Network (SEON); Scottish Government Local community	Council Capital Scottish Government funding: LCITP; GGA; HEEPS:ABS; EESSH SALIX	Will be monitored and reviewed by Climate Change Action Group on a regular basis and our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting. Scottish Government will make the development of LHEES's mandatory for Local Authorities in 2023. There will be a resourcing/funding expectation for Council's to achieve significant energy savings. Scottish Government Targets: Phase out the installation of all new gas boilers by 2035 at the latest. By 2024, all new homes consented are to use zero emission heating.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Develop further LHEES for all areas of West Dunbartonshire – in line with mandatory requirements from Scottish Government.	After the initial LHEES for Clydebank, the Council will identify future areas based on their levels of fuel poverty and the level of requirement needed for energy efficiency and renewable energy interventions. The parameters/criteria of what is required will be identified based on the specific needs and requirements of each area (yet to be identified), including the renewables needed to heat and power domestic and non-domestic buildings.	2023 – 2045	Corporate; Wider Community	Energy & Compliance; Asset Management; Housing Planning; Regeneration; DLO; Education; GIS; Organisation Wide	Scottish Energy Officers Network (SEON) Scottish Government Vital Energi	Council Capital; Scottish Government funding: LCITP; GGA; HEEPS:ABS; EESSH SALIX	Will be monitored and reviewed by Climate Change Action Group on a regular basis and our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting. Scottish Government Targets: Phase out the installation of all new gas boilers by 2035 at the latest. By 2024, all new homes consented are to use zero emission heating.
Develop and implement a Council energy reduction strategy for Council buildings.	Identify existing or future potential pilot projects or buildings that could help the Council test a holistic net zero approach – either new-build or retrofit. All projects relating to this category will be put forward to the capital programme which is currently over a ten year period. Budget approval is agreed on an annual basis. Prioritise climate change interventions in capital programme bids – including looking at building services, maintenance of boiler systems, etc. This intends to be more of a proactive approach to decarbonising Council assets. Research future resilience to the impacts of climate change – we need to avoid future overheating risks and wasted energy through having to cool buildings mechanically. Where technically feasible and cost effective, implement non-domestic building sustainability and energy efficiency standards that go beyond standard mandatory regulations – e.g. Passivhaus; EnerPHit; BREEAM; Scottish Government Sustainability Standard; and Net Zero Public Sector Building Standard (NZPBS); etc. Based on each type of building or project, a climate change modelling approach will be developed to measure and report on the overall environmental benefits of climate change interventions and remaining emissions. The scale and scope of which will vary depending on each project and on the feasibility/cost of doing so. Improve and expand efforts for energy reduction at Council sites and future developments through further fabric improve-ments, the installation of low-energy systems (e.g. lighting and heating), improved controls and insulation measures.	2021 – 2026 (Long-term target of 2045)	Corporate; Wider Community	Energy & Compliance; Asset Management Planning; Regeneration; DLO; Organisation Wide	Scottish Government; Scottish Energy Officers Network (SEON); Sustainable Scotland Network (SSN); Scottish Futures Trust (SFT) Local community	Council Capital; Scottish Government funding: LCITP; GGA; Various SALIX	Will develop a monitoring approach as soon as we identify projects. But projects are currently being identified for future potential. Current energy efficiency works are monitored by E&C, and reported to finance on an annual basis. Currently monitored on an annual basis alongside carbon reduction targets – this is reported to Scottish Government through mandatory climate change reporting. Will be monitored and reviewed by Climate Change Action Group on a regular basis and our internal risk management system. Scottish Government Targets: Phase out the installation of all new gas boilers by 2035 at the latest.
Develop and implement a Council water consumption reduction strategy for Council buildings.	We must first Identify potential buildings that require water efficiency improvements, alongside the approach we currently take to energy efficiency measures. Where technically feasible and cost effective, review existing Council sites to reduce and reuse water consumption through technologies and behaviour change measures. This should also be extended to newer sites and developments. Ensure that water efficiency measures are included in new projects and building renovations and constructions, where feasible.	2021 – 2026 (Long-term target of 2045)	Corporate	Energy & Compliance; Asset Management DLO	Framework provider – Business Stream; Scottish Government; Scottish Energy Officers Network (SEON); Sustainable Scotland Network (SSN);	Council Capital; Scottish Government funding (Various) SALIX	A monitoring approach will be identified following identification of buildings and interventions. Current water efficiency works are monitored by E&C, and reported to finance on an annual basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Review the Council's estate to explore the full potential for installation of renewable energy technologies. Where feasible and cost effective, accelerate the implementation of renewables projects.	The Council, with support from external consultants (when required), will carry out feasibility studies and analysis where appropriate. The outcome of studies will identify recommendations for projects to increase renewable energy generation within the Council estate, taking account of technological, practical and funding limitations. The Council will then agree on a mechanism of deciding whether to proceed with study recommendations and implement renewables projects (either directly or with 3rd parties) on a phased basis. Future projects/buildings will be reviewed for renewable potential alongside energy efficiency measures.	2021 – 2026 (Long-term target of 2045)	Corporate; Wider Community	Energy & Compliance; Asset Management Planning; Regeneration; DLO; Organisation Wide	Local Energy Scotland Local community	Council Capital Scottish Government funding (various) SALIX CARES	A monitoring approach will be identified following identification of buildings, land and interventions. Current energy efficiency works are monitored by E&C, and reported to finance on an annual basis. Report to Scottish Government on an annual basis through mandatory climate change reporting. Will be monitored and reviewed by Climate Change Action Group on a regular basis.
Develop and implement a Renewable Energy Strategy.	The Strategy will provide a supportive framework for the growth of the renewable sector (including sites and supply chains) in West Dunbartonshire, with details of where renewables developments can be sited provided in associated planning guidance. It is recognised there are a number of environmental constraints which limit renewables deployment in some parts of the Council area, but new planning guidance should provide a supportive policy framework for renewables developments of the appropriate type in appropriate locations. Will support implementation of renewable energy developments both within the Council and for communities across West Dunbartonshire. The Strategy will be applied in combination with new Renewable Energy Planning Guidance to provide a supportive policy framework for renewables developments in appropriate locations. All Council service areas will liaise with and support Planning in the development of this strategy. Ensure the Council adopts a cross-cutting approach to support the deployment of renewables in alignment with other relevant Council and national policies.	2021 – 2022 (Long-term target of 2045)	Corporate; Wider Community	Planning; Regeneration; Energy & Compliance Asset Management; GIS; Organisation Wide	Local Energy Scotland Scottish Government Local community	Council Capital Scottish Government funding (various) SALIX CARES	A monitoring approach will be identified during the development of the strategy. Report to Scottish Government on an annual basis through mandatory climate change reporting. Will be monitored and reviewed by Climate Change Action Group on a regular basis and our internal risk management system.
Where feasible and cost effective, the Council will continue to optimise the use of existing assets and buildings, prioritising building retrofit, adaptation, re-use and maintenance over new construction.	This default position will underpin the development of the Council's new Asset Management Plan, which will define parameters to implement this action Research the carbon benefits of reusing buildings and structures over new construction, and contribute to waste solutions for construction. Utilise an approach that captures the benefits of Whole-Life Costing (WLC) and Embodied Carbon of assets, transport, construction materials and supply chains. This applies to the maintenance, retention and appropriate Adaptation of the historic environment/traditional non-domestic buildings.	2021 – 2026 (Long-term target of 2045)	Corporate; Wider Community	Asset Management Energy & Compliance; Planning; Regeneration; DLO; Corporate Procurement Unit; Organisation Wide	Sustainable Scotland Network (SSN); Scottish Energy Officers Network (SEON); Local Community	Council Capital; Scottish Government funding (various); SALIX	Will be monitored and reviewed by Climate Change Action Group on a regular basis and our internal risk management system. Will develop a monitoring approach as soon as we identify buildings and interventions. Report to Scottish Government on an annual basis through mandatory climate change reporting.

Housing

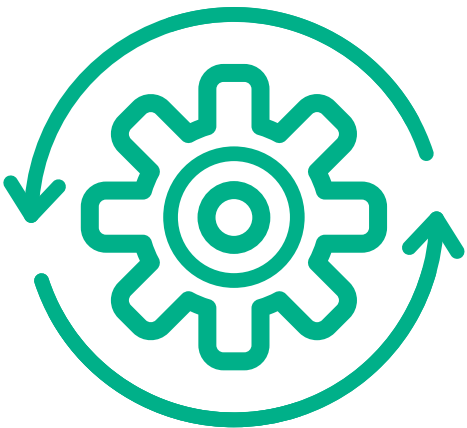


Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Continue to improve energy efficiency in social housing. Identify and implement further energy efficiency improvements to existing domestic council stock and future developments, whilst minimising overheating risks.	Delivery of action is defined by a range of national strategies and approaches. We will develop a holistic energy efficiency strategy for our housing stock taking into consideration both decarbonisation and fuel poverty. We will deliver our Housing Asset Management Strategy. New homes developed by the Council, will be developed to a NetZero standard. Progress on the LHEES will be monitored internally via the Climate Change Action Group and reported back to the Chief Executive board. The LHEES will inform the short, medium and long term approach to energy efficiency going forward. The LHEES will identify further recommended interventions over and above our existing energy efficiency works The new Local Housing Strategy (LHS) will confirm and then set further actions and targets to achieve this. National Building Standards and Planning legislation will need to be adapted and improved to make this easier for Council's to make this more realistically achievable.	2021 – 2026 (Long-term target of 2032)	Corporate; Wider Community	Housing Energy & Compliance; Planning; Regeneration; DLO; Organisation Wide	Energy Savings Trust (EST) Tenants Wider public Local community	Council Capital; Housing Revenue Account (HRA) funding Scottish Government funding	Measure these improvements by EESSH 2 returns to regulator. Upon development of future area based LHEES, will use this to measure and deliver energy efficiency/climate change improvements. Continue to implement HEEPS:ABS improvements to private domestic properties. Research future resilience to the impacts of climate change. Targets for actions will be integrated into our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting. Successful delivery will be governed by EESSH 2, the pilot LHEES (and subsequent area based LHEES thereafter) and HEEPS:ABS schemes. Both EESSH 2 and HEEPS:ABS have national targets that have to be met on an annual basis and reported back to Scottish Government. Scottish Government Targets: By 2024, all new homes consented are to use zero emission heating. Phase out the installation of all new gas boilers by 2035 at the latest.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Where feasible, we will consider options to retrofit, renovate and maintain existing domestic buildings over the construction of new buildings and developments.	If as a result of our energy efficiency strategy findings, buildings are deemed not viable then rebuild of more energy efficient alternatives will be carried out. The action will ensure that the Council always considers the opportunities of retaining/retrofit/renovation/maintenance before demolition, for Council projects and buildings that we have influence over. The new Local Housing Strategy (LHS) will set further actions and targets to achieve this. Research the carbon benefits of reusing buildings and structures over new construction, and contribute to waste solutions for construction. This will apply to the maintenance, retention and appropriate adaptation of the historic environment/traditional domestic buildings.	2022 – 26 (Long-term target of 2045)	Corporate; Wider Community	Housing Energy & Compliance; Planning; Regeneration; DLO; Organisation Wide	Tenants Wider public Local community	Council Capital Housing Revenue Account (HRA) funding Scottish Government funding	Ask for information to be shared on findings from pilot research. This is linked to the Council Asset Management Strategy and how the Council will ensure prioritisation of retrofit on a building/project basis. Targets for actions will be integrated into our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting. Scottish Government Targets: By 2024, all new homes consented are to use zero emission heating. Phase out the installation of all new gas boilers by 2035 at the latest.
Where feasible and cost effective, implement domestic building sustainability, energy efficiency or design standards which go beyond standard mandatory regulations. In all decisions and practices the Council will encourage housing delivery (both Council led and external) to demonstrably contribute to the achievement of net zero emissions by 2045.	The WDC Design Standard requires Silver Active building standard for all new affordable build developments, we will look to surpass this standard and develop homes which are even more energy efficient, where the budget and design allows. This will be set out in the upcoming LHS and overseen by the More Homes Project Board. An internal net zero working-group, under the governance of the Better Homes Project Board and overseeing the energy efficiency strategy, has been formed and is currently identifying potential pilot projects for action which will consider Passivhaus Enerphit amongst other sustainability standards. This will be overseen by the Better Homes Project Board. To support the implementation of the Council’s aspiration for a net zero approach to Housing, LDP (planning) guidance will be prepared to encourage private developers to develop homes at this higher energy efficiency standard. This approach must also ensure that Fuel Poverty is addressed and that the transition to net zero heating systems does not increase the costs of heating bills for residents or tenants.	2021 – 26 (Long-term target of 2045)	Corporate; Wider Community	Housing; Planning Energy & Compliance; Planning; Regeneration; DLO; Organisation Wide	Tenants Wider public Local community	Council Capital Housing Revenue Account (HRA) funding Scottish Government funding	Progress monitored via Climate Change Action Group and net zero sub-group More Homes and Better Homes Project Boards. Targets for actions will be integrated into our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting. Scottish Government Targets: By 2024, all new homes consented are to use zero emission heating. Phase out the installation of all new gas boilers by 2035 at the latest.
Identify and test a holistic housing project to tackle fuel poverty and climate change in tandem using alternative fuel sources (e.g. Solar Panels). This pilot will help inform the approach to domestic housing across West Dunbartonshire.	The Council will define high level parameters for the development and subsequent appraisal criteria. An internal net zero working-group has been formed and is currently identifying potential pilot projects for action. This will also align with the Council Local Housing Strategy (LHS). The social impact of the project will also be addressed. Using a pilot project as a testbed, the working group will develop an internal standard/checklist that considers the approach as identified in the previous action. A business case will then be developed with costs, savings and climate change improvements identified.	2022 – 26 (Long-term target of 2045)	Corporate; Wider Community	Housing Energy & Compliance; Planning; Regeneration; DLO; Organisation Wide	Tenants Wider public Local community	Council Capital Housing Revenue Account (HRA) funding Scottish Government funding	Internal net zero working-group will discuss and implement the project, and will measure progress reporting back to Chief Executive. Ask for information to be shared on findings from pilot research. Targets for actions will be integrated into our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting. Scottish Government Targets: By 2024, all new homes consented are to use zero emission heating. Phase out the installation of all new gas boilers by 2035 at the latest.
Action continued on next page...							

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Action continued from previous page... Identify and test a holistic housing project to tackle fuel poverty and climate change in tandem using alternative fuel sources (e.g. Solar Panels). This pilot will help inform the approach to domestic housing across West Dunbartonshire.	When the Council identifies what is most effective, this will then lead to the improvement and completion of our standard/checklist – updating and improving it as technologies and practices improve. An internal Monitoring & Targeting mechanism will be developed to measure progress and impacts. Resourcing will come from Housing service area with internal support from Energy & Compliance and others. This approach must also ensure that Fuel Poverty is addressed and that the transition to net zero heating systems does not increase the costs of heating bills for residents or tenants.	2022 - 26 (Long-term target of 2045)	Corporate; Wider Community	Housing Energy & Compliance; Planning; Regeneration; DLO; Organisation Wide	Tenants Wider public Local community	Council Capital Housing Revenue Account (HRA) funding Scottish Government funding	Internal net zero working-group will discuss and implement the project, and will measure progress reporting back to Chief Executive. Ask for information to be shared on findings from pilot research. Targets for actions will be integrated into our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting. Scottish Government Targets: By 2024, all new homes consented are to use zero emission heating. Phase out the installation of all new gas boilers by 2035 at the latest.





Waste and Circular Economy

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Implement and monitor a new Circular Economy and Waste Reduction Strategy for West Dunbartonshire – detailing how the Council will help reduce, reuse and recycle, detailing corporate standards, targets and staff guidance for our waste activities, including improving infrastructure.	Draft Strategy to be developed with cross-service input from various service areas, particularly sustainability. This will apply to both Council operational waste and domestic waste from all households across the Council area. This will establish true costs of waste disposal and assigning responsibility to service areas through transparent accounting. This will review and improve corporate and domestic waste processes and infrastructure to ensure compliance, improve standards and improve monitoring and reporting on waste. The strategy will set actions to develop and implement a Litter Prevention Strategy and Action Plan for West Dunbartonshire. This will involve reviewing what the Council and residents can do to reduce litter - including barriers and challenges to informing positive behaviours. A communications strategy will also need to be devolved, with input from Education and Communications, and support from Keep Scotland Beautiful. This will involve input from the local community to understand what would empower them to take action on Circular Economy behaviours. This will better inform current clean ups to support the Upstream Battle campaign (delivered with extensive support from Friends of Dumbarton Foreshore and Friends of Leven River Valley) and prevent marine plastics reaching the river. Whilst existing work is being carried out, a more proactive and strategic approach that involves West Dunbartonshire residents more closely, must be adopted. The strategy will set actions to support the delivery of the national Deposit and Return Scheme for Scotland where feasible.	2021 – 2026	Corporate; Wider Community	Fleet & Waste Shared Services; Neighbourhood Services; Education Corporate Procurement Unit; Organisation Wide	Keep Scotland Beautiful Zero Waste Scotland (ZWS) SEPA Marine Conservation Local Community	Council Capital Council Revenue Scottish Government Funding	Progress will reviewed by Waste Services on an Quarterly basis and reported back to ORG. Report to Scottish Government on an annual basis through mandatory climate change reporting. Will be monitored and reviewed by Climate Change Action Group on a regular basis. When a strategy is developed, and when actions are developed, this will be input into our internal risk management system. Scottish Government Targets: By 2025 – 95% reduction of landfill waste.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Develop a new Materials/ Resources Transfer Station for West Dunbartonshire.	This will require input from multiple services and involve neighbouring Local Authorities. Development of a new Transfer Station will open up new more sustainable or more efficient options for residual waste management, providing the required recycling functions for all waste streams generated by residents and the Council. Providing the required recycling functions for West Dunbartonshire should help considerably in the reduction of emissions from Waste and help to achieve 95% reduction of landfill waste as required by Scottish Government. In providing the required infrastructure this should encourage, alongside more effective communication with residence, increased recycling behaviours in residents, reducing emissions from waste going to landfill. This will apply to both Council operational waste and domestic waste from all households across the Council area. A circular economy/recycling communications plan will be developed and delivered during and after development. Work with the wider sector and Local Authorities to identify best practice and approaches to waste minimisations and the circular economy.	2021 - 2025	Corporate; Wider Community	Fleet & Waste Shared Services; Corporate Procurement Unit; Communications; Organisation Wide	Zero Waste Scotland Local Community	Council Capital Scottish Government funding	Progress will reviewed by Waste Services on an Quarterly basis and reported back to ORG. Will be monitored and reviewed by Climate Change Action Group on a regular basis Scottish Government Targets: By 2025 - 95% reduction of landfill waste.
Research and implement alternative and/or innovative waste recycling and circular economy facilities and projects, e.g. for Anaerobic Digestion (AD) and similar technologies.	Where feasible and cost effective, will implement projects/ technologies that focus both on Internal operations and external public - therefore considering emissions from Council and public waste). Identify areas where we can undertake focused waste transformation projects involving packaging, plastics, printing and biodegradable waste, including championing digital and reusable alternatives and composting alongside reducing the amount of non recyclable materials and products we purchase and produce. Engage with other public bodies and organisations to research and review technologies that are currently available - e.g. Rocket composter	2023 - 2045	Corporate; Wider Community	Fleet & Waste Shared Services; Asset Management; Corporate Procurement Unit; Greenspace	Zero Waste Scotland Local Community	Council Capital	Progress will reviewed by Waste Services on an Quarterly basis and reported back to ORG Will be monitored and reviewed by Climate Change Action Group on a regular basis Scottish Government Targets: By 2025 - 95% reduction of landfill waste.
Undertake a review and implement recommendations (where feasible) to further reduce food waste and food miles in all council buildings and schools	A review of Food miles across the council will need to be carried out - setting a baseline so targets can be set. Engage with other public bodies and organisations to research and review frameworks, process and technologies that are currently available to help facilitate this. Find out what other Local Authorities are using to determine baseline, from what point in the supply chain. Work with ZWS and LFHW to engage and advise staff and pupils on the importance of reducing food miles and waste. Review options and practices for providing sustainable food and meal choices, with more locally sourced ingredients and increased provision of vegetarian and vegan meals, where feasible. Explore how Council can - in sustainable procurement policy - set a framework for award criteria for reduced miles/ selection criteria for local only could be explored.	2024 - 2025	Corporate; Wider Community	Leisure Trust; HSCP; Education Fleet & Waste Services; Corporate Procurement Unit;	Zero Waste Scotland Love Food Hate Waste Keep Scotland Beautiful Sustainable Scotland Network (SSN) Soil Association Local Community	Council Capital Scottish Government funding	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
For procurement activities under £50k, ensure no single-use plastics (SUP) items are purchased or used within Council schools and buildings, and where feasible, purchase more sustainable alternatives or adapt behaviours to reduce the need for these options.	SUPs have carbon emissions from their construction and delivery. They also incur wider environmental impacts to nature and biodiversity, both on land and in water. This will be in addition to the new national regulations set by ZWS and SG. Sustainable alternatives include biodegradable, compostable or fully recycle options. Are waste items and SUPs required in the first place? A review of service areas and their actions will then inform staff and pupil behaviours, or current arrangements, so people can use our own reusable cups and cutlery, etc. instead. As part of the managers meetings, the Corporate Procurement Unit will promote the Council's Sustainability Procurement guidance. As part of this exercise this will ensure that staff reduce emissions and negative environmental impacts by supporting Council efforts in undertaking clean ups to support the Upstream Battle campaign (delivered with extensive support from Friends of Dumbarton Foreshore and Friends of Leven River Valley) and prevent marine plastics reaching the river.	2022 - 2025	Corporate; Wider Community	Organisation Wide; Education; Corporate Procurement Unit; Fleet & Waste Shared Services; Facilities Management; Energy & Compliance; Communications	Zero Waste Scotland Keep Scotland Beautiful Local Community	Council Capital Scottish Government funding	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.
All WDC staffed sites to include waste segregation facilities at source (where feasible), encouraging staff towards recycling and circular economy practices by providing the required infrastructure and signage.	Doing so will encourage positive behaviours and reduce emissions from waste going to landfill. Having waste properly segregated at site makes it easier to carry out the necessary operations for recycling and reuse at materials/resource transfer stations. This will be informed by the Council's new waste and circular economy strategy.	2025	Corporate	Fleet & Waste Shared Services; Corporate Procurement Unit; Asset Management; Energy & Compliance	Zero Waste Scotland Keep Scotland Beautiful Local Community	Council Capital Scottish Government funding	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.



Sustainable Travel

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Expand Electric Vehicle (EV) charging points and infrastructure across the Council estate – where feasible.	Scope and targets will be set by the CCAG and Roads, as informed by the 'Switched-on Fleets (SoF)' report developed by Energy Savings Trust (EST).	2022 – 2025 (Long-term target of 2045)	Corporate	Roads & Transportation; Fleet & Waste Shared Services; Energy & Compliance; Asset Management.	Energy Savings Trust (EST) Transport Scotland Scottish Government	Council Capital Transport Scotland Funding	Will be monitored and reviewed by CCAG on a regular basis and our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting. Scottish Government Targets: Where feasible, Public Bodies must decarbonised their fleet by 2025.
Expand Electric Vehicle (EV) charging points and infrastructure across West Dunbartonshire – where feasible.	Scope and targets will be set by the CCAG and Roads, as informed by the 'Switched-on Towns and Cities (SoTC)' report developed by Energy Savings Trust (EST).	2022 – 2025 (Long-term target of 2045)	Corporate; Wider Community	Fleet & Waste Shared Services Roads & Transportation; Energy & Compliance; Asset Management.	Energy Savings Trust (EST); Transport Scotland; Scottish Government Local Community	Council Capital; Transport Scotland Funding	Will be monitored and reviewed by CCAG on a regular basis and our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting.
Consolidate and reduce the Council's pool fleet, ensuring that remaining fossil fuel fleet are replaced with Ultra-Low Emission Vehicles (ULEVs) or Zero Emission Vehicles (ZEVs) where technically feasible.	A staff travel and fleet management system will be developed and implemented to encourage and support sustainable travel choices. Encourage behaviour to limit use of car as much as possible but when a car is required it should be electric. Improved management of low carbon transport – develop procedure for this. Scope and targets will be set by the Climate Change Action Group, and informed by the 'Switched-on Fleets (SoF)'. Current SoF feasibility study provides high level guidance on where to situate fleet charging points. But this will require an internal depot and building review to both consolidate buildings and better locate potential charge points and fleet vehicles. The Council must also review use of remaining fossil fuel powered vehicles to ensure alignment with Climate Change and Sustainability objectives.	2021 – 2025 (Long-term target of 2045)	Corporate	Fleet & Waste Shared Services; Asset Management Roads & Transportation; Energy & Compliance;	Energy Savings Trust (EST) Transport Scotland Scottish Government	Council Capital; Transport Scotland Funding	Will be monitored and reviewed by CCAG on a regular basis and our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting. Scottish Government Targets: Where feasible, Public Bodies must decarbonise their fleet by 2025.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Adopt and take action to implement Sustainable people, places and connections, for both WDC staff and for communities across West Dunbartonshire.	This will be informed and actioned via the Active & Sustainable Travel Strategy and Action Plan (ASTSAP) currently being developed for West Dunbartonshire. Ensuring it illustrates the requirements of the NTS2, Local Transport Strategy and 20 minute neighbourhoods and parking. This will involve input from the local community to understand what would empower them to take action and support sustainable travel. Detailed implementation proposals to achieve sustainable modal shift and support an increase in active travel will be detailed in Active & Sustainable Travel Strategy. This should support the community in being able to make better Sustainable and Active Travel choices. Focussing efforts on the public and staff using the green travel hierarchy approach, but also ensuring that positive behaviour change can occur by providing the relevant infrastructure and facilities, etc. A baseline of barriers/challenges to sustainable travel, for the public and staff, will be developed - using (but not limited to) GIS data, open source travel data, public surveys and consultation questions and internal Council data. A review of emissions/pollution around hotspot areas and schools will be carried out, with action taken as a result of proactive research identifying problem areas from the ASTSAP. Improve and expand existing active travel infrastructure across West Dunbartonshire, including the development improvement of existing active travel path networks. This will involve input from the local community to understand what best supports them. Review areas of high vehicle traffic and emissions around schools to advise and inform greener travel alternatives where necessary. A new staff sustainable travel policy and guidance will be developed, with support from communications team on internal communications. But a further exercise in analysing staff commuting habits and distances needs to be carried out (particularly in response to the global pandemic) to better understand benefits of working from home, particularly since this displaced carbon emission to activities at home.	2022-2026 (Long-term target of 2045)	Corporate; Wider Community	Roads & Transportation; Fleet & Waste Shared Services Energy & Compliance; Asset Management; Communications; Communities; Education; HSCP; GIS; Air Quality; Environmental Health.	Energy Savings Trust (EST) Transport Scotland Scottish Government Sustrans Cycling Scotland Paths for All Local Community	Council Capital; Cycling Scotland Funding Sustrans Funding Transport Scotland Funding Smarter Choices Smarter Places (SCSP) funding.	Will be monitored and reviewed by CCAG on a regular basis and our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting.
Expand Cycle Friendly Employer (CFE) assessments to more sites and support increased infrastructure whilst improving access to, and availability of, pool bikes, electric bikes and associated schemes for staff.	Service areas to review their own staff travel behaviours and fund the purchasing of pool bikes or sustainable travel alternatives. Aimed internally to support staff sustainable and active travel alternatives and positive behaviour change. A review of staff sites that will still be used regularly for office hours and other activities will be carried out, recording what sites still require improvements for CFE.	2022-2026	Corporate	Energy & Compliance; Asset Management. Organisation Wide.	Cycling Scotland Paths for All Sustrans	Council Capital Cycling Scotland Funding Sustrans Funding Transport Scotland Funding Smarter Choices Smarter Places (SCSP) funding.	Will be monitored and reviewed by CCAG on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Expand and improve ICT software and technologies to enable staff to enable agile working to reduce staff commuting and associated environmental impacts.	As work patterns develop and change, particularly as a result of the pandemic, the Council will continue to review staff behaviours and have managers engage with staff to agree work styles. This will happen alongside adaptive reuse of Council buildings going forward. A further exercise in analysing staff commuting habits and distances is required to better understand benefits/challenges of working from home, particularly since this has displaced carbon emissions from the Council carbon footprint to individual activities at home.	2021 – 2026 (Long-term target of 2045)	Corporate	ICT Corporate Procurement Unit; Asset Management; Energy & Compliance; HSCP		Council Capital	Will be monitored and reviewed by CCAG on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.





Sustainable Procurement

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Develop Sustainability Procurement guidance and promote their implementation throughout the Council.	To develop specific Council Sustainability Procurement guidance to help encourage the adoption of more sustainable procurement behaviours. The aim is to reduce Council and public emissions by encouraging staff to make procurement choices that reduce environmental impacts and emissions through the supply chain, construction, etc. To encourage behaviour change in staff who do procurement practices so they make efforts to learn more about what they can do to reduce environmental impacts, and therefore make better decisions as a result. This can be supported by internal reminders and communications. Where technically feasible and cost effective. implement climate change, carbon and circularity principles in tenders via this process. This can then be reviewed by each evaluation panel member. This will also promote positive behaviours and encourage all staff – carrying out procurement activities – to sign-up for Scottish Government's climate literacy training.	2021 – 2022 (Long-term target of 2045)	Corporate; Wider Community	Corporate Procurement Unit Organisation Wide	Scottish Government	Council Capital Council Revenue	Each CPU staff member who goes through procurement practices will utilise the Scottish Government's guidance on Sustainable Procurement before tendering, which has been designed to help identify and address how the Council can optimise the economic, social and environmental outcomes of their procurement activity. Each service area/team member who participates submit in tenders, must ensure that they encourage climate change, carbon and circularity principles in documentation. This is mandatory. Procurement will report regularly to Climate Change Action Group the uptake of sustainability practices through all tenders being developed. Tenders are monitored by procurement on a regular basis so this they will be able to see if staff are adopting elements of the sustainability guidance in their practices. Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.
Develop a pilot to review a supply chain stream or procurement exercise for goods or services or contracts/ tenders, reviewing overall carbon emissions and environmental impacts from cradle to grave. Action continued on next page...	Adopt a more effective Whole Life Costing (WLC) approach to ensure operational sustainability for future developments and procurement exercises. This WLC approach will be based on measuring value, not just costs. A WLC (Inc. carbon monetisation) investment appraisal framework could be developed as a result of this Climate Change Action Plan. The Council need to identify what procurement exercise or supply chain stream to use for testing this pilot, ensuring that the WLC approach is simple and illustrated clearly. The option will be selected based on Council capacity and service area ownership will also require clarification.	2023 – 2026	Corporate; Wider Community	Organisation Wide Corporate Procurement Unit; Planning; Regeneration; Energy & Compliance; Asset Management;	Scottish Government	Council Capital Council Revenue Scottish Government funding	Will be monitored and reviewed by Climate Change Action Group on a regular basis, using our own internal KPI's at first, then working with SG and ZWS to see how this can be measured fully as a deliverable in the future. Report to Scottish Government on an annual basis through mandatory climate change reporting.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Action continued from previous page... Expand and improve ICT software and technologies to enable staff to enable agile working to reduce staff commuting and associated environmental impacts.	The approach to collecting data and information on the benefits of delivery will also need to be agreed internally through the Climate Change Action Group. Gain a better understanding of the national approach for measuring climate change targets, through appropriate public body networks and other local Authorities. The Council may engage with and request support from Zero Waste Scotland or other government departments to do so. This will identify if there are other similar projects or research exercises that could assist the Council going forward. Use this project to test how we can set organisational targets for the procurement of materials (including construction materials) that are local, recycled and have low-to-no environmental impacts. Suggested solutions will include (but not limited to)- i) the true cost of disposal to be included at point of purchase, even if that's in 20years time; and ii) solutions that have second life use rather than disposal, to be built into award criteria . Make efforts to better source materials for projects that are reused from other areas, or are recycled or upcycled from elsewhere. This will need to be built into specifications and award criteria where feasible.	2023 - 2026	Corporate; Wider Community	Organisation Wide Corporate Procurement Unit; Planning; Regeneration; Energy & Compliance; Asset Management;	Scottish Government	Council Capital Council Revenue Scottish Government funding	Will be monitored and reviewed by Climate Change Action Group on a regular basis, using our own internal KPI's at first, then working with SG and ZWS to see how this can be measured fully as a deliverable in the future. Report to Scottish Government on an annual basis through mandatory climate change reporting.
Promote a sustainable approach to procurement of appliances and equipment based on energy efficiency and wider sustainability credentials rather than solely cost.	A national hardware contract is currently in place, but the Council will need develop a policy on buying more efficient options rather that lowest cost. I.e. computer monitors that are A++ and not a lower energy efficiency band. This will be developed through the Climate Change Action Group, with support from ICT, Procurement, Education, Asset Management and Energy & Compliance. Communications through internal communications channels and national campaigns will help inform staff accordingly.	2021 - 2026 (Long-term target of 2045)	Corporate	ICT Corporate Procurement Unit; Energy & Compliance; Communications; Organisation Wide	Scottish Government	Council Capital	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.





Biodiversity, Landscape & Greenspace

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Approve and implement LDP2 Green Network and Green Infrastructure planning guidance, including reviewing further opportunities for green infrastructure improvement. This will be informed by engagement with relevant consultees including NatureScot.	LDP2 – Green Network Guidance (almost ready to go to committee) could be linked to this. Will require a review of all current geographical and GIS data, including NatureScot datasets, or similar. This will require the Council to research the benefits and opportunities of green infrastructure, to improve Biodiversity and reduce negative environmental impacts of our activities across West Dunbartonshire. his will be informed by engagement with relevant consultees including NatureScot. Ensure this links with Council policies and guidance – including the Local Housing Strategy. A future priority to move towards zero carbon is to embrace, as a Council priority, a green infrastructure first approach to green design and development. The LDPP2 will support the design, development and implementation of nature-based solutions to help cope with climate change (such as restoring peatlands to help increase resilience to climate change; woodland restoration to help absorb carbon; natural flood management, such as re-naturalising the course of rivers and restoration of their adjacent habitats to slow down and hold water during heavy rain events; managed realignment, to allow coastal habitats, and the benefits they bring, to migrate landward instead of being lost to sea-level rise; and creating nature friendly SUDS to cope with the predictions of increased rainfall). This includes the management and enhancement of other habitats such as naturalised grassland areas and wildflower meadows.	2022 – 2026 (Long-term target of 2045)	Corporate Wider Community	Planning; Greenspace Regeneration; Asset Management; Energy & Compliance;	Forestry and Land Scotland Loch Lomond & the Trossachs National Park Adaptation Scotland Climate Ready Clyde Central Scotland Green Network (CSGN) NatureScot Local Community	Council Capital Council Revenue Scottish Government funding CSGN Funding Other external funding	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting. Report back to Scottish Government as part of the Biodiversity Duty Report on a 3 year basis.
Actions continued on next page...							

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Actions continued from previous page... Analyse the habitat and sequestration benefits of existing trees and flora across the West Dunbartonshire area to better understand how the Council (with partners) can increase Greenhouse Gas (GHG) sequestration	The Council will plan to develop a baseline understanding of our tree/flora cover to estimate current carbon sequestration levels. Once this has been developed, further analysis/review must be carried out on developing new sequestration actions and in developing existing and future tree planting regimes. Such as – our approach to planting on an annual basis. Furthermore, natural woodland regeneration should be considered (where there is an existing seed source, or seed bank, and livestock can be excluded). In order to reduce the risk of introducing disease when planting trees, where tree planting is still considered the best option – trees should be of local provenance to try to reduce the risk of inducing disease. In response to Scottish Government advice and guidance, the Council will research opportunities for the removal of GHG emissions from the atmosphere, including (but not limited to) rewilding, improving existing tree planting regimes; peatland restoration and new tree planting initiatives. This will involve community engagement and the improvement of local Biodiversity and air quality. There should be a focus on protecting existing trees along with new planting . A formal consultancy feasibility study into peatland management will be carried out, outlining and detailing specific peatland restoration programmes that would be eligible for this round of funding.	2021 – 2026 (Long-term target of 2045)	Corporate; Wider Community	Greenspace Energy & Compliance	Forestry and Land Scotland Loch Lomond & the Trossachs National Park Central Scotland Green Network (CSGN) Glasgow & Clyde Valley Green Network (GCV) Adaptation Scotland Climate Ready Clyde Scottish Government NatureScot Sustainable Scotland Network (SSN) Local Community	Council Capital Council Revenue Scottish Government funding (various)	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting. Report back to Scottish Government as part of the Biodiversity Duty Report on a 3 year basis.
Develop a new Local Biodiversity Action Plan (LBAP), including initiatives to support Climate Change mitigation, Adaptation and sustainability across West Dunbartonshire. Action continued on next page...	In line with new Scottish Government guidance being published by Oct 2022 – we will develop the scope, baseline and approach of the LBAP in response to the new national Scottish Biodiversity Strategy. Conduct a Strategic Environmental Assessment (SEA) alongside the development of the LBAB to ensure ownership and to ensure actions are deliverable. Embed biodiversity, landscape management and the Food Growing Strategy (FGS) into organisational targets by ensuring that it is considered in all appropriate decision-making. Collate and improve all necessary data relating to biodiversity and landscape and develop GIS layers. This will help better set targets and actions for this document. Setting a good baseline to work from. Improve existing greenspaces by integrating biodiversity and adaptation principles where feasible. Such as heat sinks (reducing urban heat) and carbon sequestration. Improve communications activity and engagement on biodiversity and landscape and food growing – this will require a communications plan to be developed. Align with adaptation requirements and the GCR Adaptation Strategy.	2022 – 2023 (Long-term target of 2045)	Corporate; Wider Community	Greenspace; GIS Planning; Communities; Corporate Procurement Unit; Communications; Organisation Wide	NatureScot Keep Scotland Beautiful Sustainable Scotland Network (SSN) Local Community	Council Capital Council Revenue Scottish Government funding	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting. Reported back to Climate Ready Clyde board on a regular basis. When actions are set will be input into our internal risk management system. Report back to Scottish Government as part of the Biodiversity Duty Report on a 3 year basis.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Action continued from previous page... Develop a new Local Biodiversity Action Plan (LBAP), including initiatives to support Climate Change mitigation, Adaptation and sustainability across West Dunbartonshire.	The Council will stop using peat based compost and look to work with schools and Council Offices to compost our food waste at source. The Council will develop a feasibility study into managing invasive non-native species – when also influenced and exacerbated by the impacts of Climate Change. i.e. better using Glyphosate in a much more targeted way, for example in the use of managing invasive non-native species. Develop a recommended species list for use in landscaping and for developments in parks and/or existing biodiversity areas. This could also include a list of recommended food crops for the public to support self-growing in West Dunbartonshire.	2022 - 2023 (Long-term target of 2045)	Corporate; Wider Community	Greenspace; GIS Planning; Communities; Corporate Procurement Unit; Communications; Organisation Wide	NatureScot Keep Scotland Beautiful Sustainable Scotland Network (SSN) Local Community	Council Capital Council Revenue Scottish Government funding	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting. Reported back to Climate Ready Clyde board on a regular basis. When actions are set will be input into our internal risk management system. Report back to Scottish Government as part of the Biodiversity Duty Report on a 3 year basis.
Review vacant brownfield and greenfield sites to identify their potential to adopt a green infrastructure first approach and/or integrate nature based solutions (where appropriate) in order to limit the impacts of land Use Change (LUC).	The Council will develop a baseline understanding of land use and land ownership to estimate current and future potential. This will also include a review of Council vacant and derelict land to align with wider climate change action. Once this is understood, further analysis/review and engagement must be carried out on developing the Council’s plan of action, ensuring it aligns with other Council and national policies and strategies (such as the LDP2; Corporate Strategy; Planning Guidance, NPF4 etc.) for a unified approach.	2021– 2045	Wider Community	Planning; Regeneration; Asset Management Greenspace; Energy & Compliance; GIS	NatureScot SEPA Adaptation Scotland Climate Ready Clyde Scottish Government Scottish Land Commission Local Community	Council Capital Council Revenue Scottish Government (various)	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.



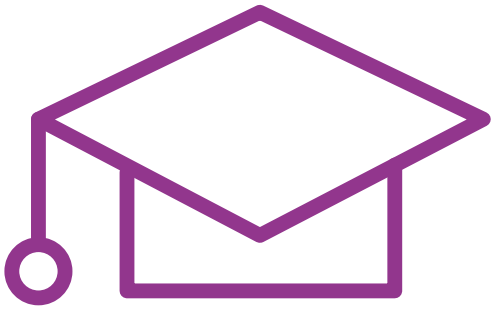


Climate Impacts, Risk & Adaptation

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
With support from Climate Ready Clyde (CRC) and wider Glasgow City region (GCR), deliver flagship actions as highlighted in the GCR Adaptation Strategy, where feasible and relevant.	Much of the adaptation actions require cross-sector and authority partnerships to deliver. The CRC board will decide and help deliver on these actions, ensuring a partnership approach across the GCR. This is a long term approach running up to 2045 and beyond. The Adaptation Capability Framework and Climate Change Risk Assessment methodology for West-Dunbartonshire will help to further develop our approach with the support of CRC and GCR. With support from CRC GCR, will develop adaptation engagement tools to support community capacity building, including workshops and collaboration with community organisations. Mainstreaming of adaptation into Governance practices and other key council plans and strategies. This will include using the Climate Change Action Group to inspire action and also feedback Adaptation actions and progress to a higher governance board, attended by leaders from each service area of the Council.	2021 – 2026 (Long-term target of 2045)	Corporate; Wider Community	Roads and Transportation; Planning; Regeneration Energy & Compliance; Greenspace; GIS; Organisation Wide	Climate Ready Clyde Adaptation Scotland Local Authorities across the Glasgow City Region Local Community	Council Capital Scottish Government funding	Will be monitored through the CRC GCR board, with targets and actions being set and prioritised as agreed and where appropriate. Ensuring a joined up approach across the GCR. Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.
The Council undertake an internal Climate Risk and Vulnerability Assessment to both shape the implementation of high level actions defined in this Climate Change Action Plan and inform the development of further climate action (i.e. the next Climate Change Action Plan).	With data from CRC, Adaptation Scotland, SEPA and the Met Office – the Council will use this data to develop a geographical approach to high risk-areas in West Dunbartonshire, using GIS, supported by Climate Change and weather data. This assessment will build upon and align with the Glasgow City Region Adaptation Strategy & Action Plan. CRC and Adaptation Scotland plan to provide additional support and tools to Public Bodies. The Council will develop an approach to monitor the impacts of climate change including heating and cooling costs as well as maintenance and repair costs of buildings and infrastructure. Building design and retrofit will need to take this into consideration for future climate projections – such as researching future resilience to the impacts of climate change.	2022 – 2026 (Long-term target of 2045)	Corporate; Wider Community	Roads and Transportation; Finance; Regeneration; Planning; Energy & Compliance; Asset Management; GIS; Greenspace; Organisation Wide	Climate Ready Clyde Adaptation Scotland SEPA Met Office Nature Scotland Historic Environment Scotland	Council Capital Council Revenue Scottish Government funding (various)	Will be monitored and reviewed by Climate Change Action Group on a regular basis. No monitoring target set until deliverables are developed through risk assessment process. Report to Scottish Government on an annual basis through mandatory climate change reporting.
Action continued on next page...							

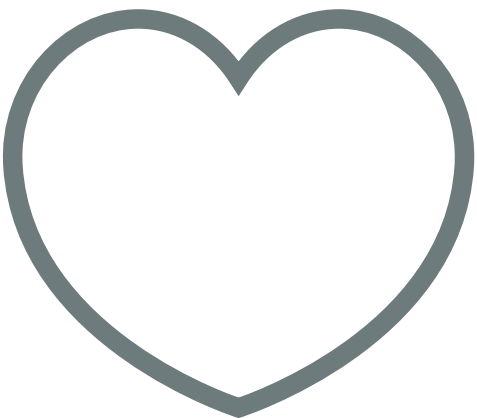
Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Action continued from previous page... The Council undertake an internal Climate Risk and Vulnerability Assessment to both shape the implementation of high level actions defined in this Climate Change Action Plan and inform the development of further climate action (i.e. the next Climate Change Action Plan).	With support from CRC and other public bodies, develop a financial impacts assessment of Climate Change impacts, and highlight required investment needed from Council and other funding sources. With Roads department taking on much of the flooding risk assessment, external consultant support will also be required to deliver on areas that the Council has no capacity to deliver or no internal expertise. There will be a resource implication of doing risk assessment so it will require to be written into service area/Council budgets. No internal capacity to do the risk assessment – will need external consultants.	2022 - 2026 (Long-term target of 2045)	Corporate; Wider Community	Roads and Transportation; Finance; Regeneration; Planning; Energy & Compliance; Asset Management; GIS; Greenspace; Organisation Wide	Climate Ready Clyde Adaptation Scotland SEPA Met Office Nature Scotland Historic Environment Scotland	Council Capital Council Revenue Scottish Government funding (various)	Will be monitored and reviewed by Climate Change Action Group on a regular basis. No monitoring target set until deliverables are developed through risk assessment process. Report to Scottish Government on an annual basis through mandatory climate change reporting.
Benchmark the Council against Adaptation Scotland’s Adaptation Capability Framework to identify current position and areas for improvement.	Use the Adaptation Capability Framework assessment progress to identify where the Council is internally and externally against Adaptation. This is also part of the GCR Adaptation Strategy and therefore will help prepare the Council better to deliver on flagship actions as part of this. This exercise links to the Council’s overall Climate Risk and Vulnerability Assessment as it will provide a baseline of where the Council is internally in it’s ability to deliver on Adaptation, including areas of which it needs to improve.	2022 - 2023	Corporate; Wider Community	Energy & Compliance Greenspace; Planning; Regeneration; Organisation Wide;	Climate Ready Clyde Adaptation Scotland Sniffer		Will be developed and monitored by the Climate Change Action Group on an annual basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.





Schools & Education

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Ensure all schools achieve Eco-Schools Green Flag status by 2025. Increase participation in the Eco Schools programme via improved local support and pilot projects with appointed schools.	Continue to support, empower and improve education/staff and pupil action on Climate Change. Review current status/baseline of Schools who do not fit this criteria, identify ownership and required actions for green flag status to be achieved. Ensure that the Council can aid in supporting this transition, i.e. through support from the Greenspace team, etc. Follow guidelines in order to achieve green flag status, look to go beyond current efforts. More focussed communication and engagement will be required with staff and head teachers, in order to empower them to inspire school children. Explore opportunities for using schools as growing places for both local food sources and improved biodiversity for supporting local wildlife.	2021 – 25	Corporate; Wider Community	Education; Greenspace Roads; Communications; Greenspace; Energy & Compliance	Keep Scotland Beautiful Local Community	Council Capital	Will be monitored and reviewed by Climate Change Action Group on a regular basis and our internal risk management system. Report to Scottish Government on an annual basis through mandatory climate change reporting.
Climate Change and Sustainability embedded into staff continued personal development (CPD) plans, ensuring that mandatory learning is implemented for all new and existing staff. This will also involve training for Councillors and senior officers.	Will require to be included in mandatory inductions and regular e-learning CPD plans. Will get sign-off from Climate Change Action Group and then agreed with corporate learning. With support from Keep Scotland Beautiful (KSB), deliver Climate Emergency Training to Councillors and senior officers across the Council.	2022 – 26 (Long-term target of 2045)	Corporate	Human Resources; Energy & Compliance Communications; Education; HSCP	Keep Scotland Beautiful	Council Capital Council Revenue	Will be made mandatory for all staff inductions and regular CPD training on an annual basis. Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.
Review gaps in staff knowledge on Climate Change and develop training sessions for staff to encourage net zero behaviours.	Firstly, a strategy and communications plan needs to be developed in order to effectively engage with staff. A baseline needs to be developed of all staff who will require training, and then the type of materials and frequency of training will be decided. Staff will be directed to internal or external guidance and resources to ensure uptake and to support Green Champions when identified. Alongside the development of engagement materials for our Green Champions network, training programmes (such as presentations, e-learning modules, toolbox talks, Hints and Tips, etc.) will be developed based on the gaps/challenges that the Council identifies. An internal staff engagement survey will be carried out to identify an initial baseline of challenges and knowledge gaps on Climate Change.	2023 – 26 (Long-term target of 2045)	Corporate	Organisation Wide; Communications Energy & Compliance;		Council Capital Council Revenue	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting.



Communities & Health

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Develop a Climate Change Community Forum to underpin more proactive and engaged discussions with and climate actions by the local community.	Review current engagement and relationships with local community groups, Health and Social Care Partnerships (HSCP) and the wider public. With the eventual aim of developing a community climate change engagement forum, or similar. Work with communities team and performance and strategy team to review current relationships and develop a communications approach that includes all areas of the public. This will include developing an internal monitoring approach to measure impacts. This will improve the potential for behaviour change interventions for the public, understanding their challenges and then informing climate communications and action with residents to reduce their carbon footprint (e.g. recycling and circular economy practices, active travel, etc.). This could also support a long term programme of community outreach and engagement to allow residents to feedback on Climate Change. Ensure equalities and social equity is considered to approach and engage all groups such as citizens panel, equality groups, faith groups, etc. Review and support current or future community sharing and reuse practices and initiatives, to reduce domestic and non-domestic waste and unnecessary consumption. Undertake focused engagement with communities (including faith and equalities groups) about the impact of human actions on our environment and climate change to ensure that their voices are heard as part of a wider community climate conversation. Engage with local community initiatives and hold engagement events with the public, covering all ages. This will require full support and engagement with the communities team and communications team. Develop and deliver a communications plan for the Climate Change Strategy and Action Plan, in order to identify how best to engage with and empower local residents.	2022-2026 (Long-term target of 2045)	Wider Community	Organisation Wide; Communities team; Performance & Strategy; Energy & Compliance; Planning; Regeneration; Communications; Organisation Wide	Sustainable Scotland Network (SSN) Local Community	Council Capital Council Revenue	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Whilst a monitoring approach has yet to be identified, by using CCS and Climate Change Action Plan themes and actions as a framework, the Council will collate feedback from residents to inform how the Council will better engage the community and deliver on climate action that is inclusive of residents. This thematic approach will then help inform future documents, policies and approaches, including how we can allocate resources to areas that benefit both residents and the environment. Report to Scottish Government on an annual basis through mandatory climate change reporting.

Action	Scope	Timescale	Focus	Service Lead and Supporting Service Areas	Stakeholder Engagement	Resourcing	Monitoring
Support West Dunbartonshire businesses in becoming carbon neutral and climate resilient.	Regeneration will work with Zero Waste Scotland (ZWS) to promote funding opportunities to do a report for local businesses. This will provide climate change recommendations and then open up potential grant funding from ZWS. A baseline review of current businesses in Council rented storefronts will be carried out. Highlight those who have not got funding. When this has been collated, a target KPI will be set on i) the number of businesses the Council have engaged and ii) the number of businesses that have applied for funding and support from ZWS. Must also communicate with businesses not in council rented shopfronts to identify appetite for support from ZWS. This will help increase support and advice to local businesses for reducing their environmental impacts, particularly energy, waste, water and their associated costs.	2021 – 2026 (Long-term target of 2045)	Corporate; Wider Community	Regeneration; Energy & Compliance; Planning; Organisation Wide	Zero Waste Scotland Resource Efficient Scotland Local Community	Council Capital Zero Waste Scotland Funding	Will be monitored and reviewed by Climate Change Action Group on a regular basis. Report to Scottish Government on an annual basis through mandatory climate change reporting. Will monitor uptake annually using data provided by ZWS on West Dunbartonshire businesses. Whilst we cannot measure in detail the level of interventions that businesses have adopted from ZWS funding, we can quantify a basic overview of the number of businesses who have received support compared to the total amount in West Dunbartonshire. The Council will engage with ZWS to improve this metric/ monitoring approach.

APPENDIX 2 REFERENCES AND FURTHER READING

Name	Details
Climate Change Strategy: A Route Map for a Net Zero Future – West Dunbartonshire Council (2021).	Available at: https://www.west-dunbarton.gov.uk/media/4319776/climate-change-strategy.pdf
Glasgow City Region Adaptation Strategy & Action Plan – Climate Ready Clyde (2021).	Available at: http://climatereadyclyde.org.uk/adaptation-strategy-and-action-plan/
Climate Change 2021: The Physical Science Basis. Report for Policymakers – IPCC (2021).	Available at: https://www.ipcc.ch/report/ar6/wg1/
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Climate Change Plan: third report on proposals and policies 2018–2032 (RPP3) – Scottish Government (2018).	Available at: beta.gov.scot/publications/scottish-governments-climate-change-plan-third-report-proposalspolicies-2018/
Climate Change (Scotland) Act 2009 – Scottish Parliament (2009).	Available at: www.legislation.gov.uk/asp/2009/12/contents
Climate Change (Emissions Reduction Targets) (Scotland) Act 2019 – Scottish Parliament (2019)	Available at: www.legislation.gov.uk/asp/2019/15/enacted
Switched On Scotland Phase Two: An Action Plan For Growth – Transport Scotland (2017).	Available at: www.transport.gov.scot/media/39306/switched-on-scotland-phase-2.pdf
Copenhagen Accord, COP 15 (2009)	The Copenhagen Accord is a document which delegates at the 15th session of the Conference of Parties (COP 15) to the United Nations Framework Convention on Climate Change agreed to “take note of” at the final plenary on 18 December 2009. The Accord is not legally binding and does not commit countries to agree to a binding successor to the Kyoto Protocol, whose round ended in 2012.
Paris Accord, COP 21 (2015)	Update to COP 15. Under the Paris Agreement, each country must determine, plan, and regularly report on the contribution that it undertakes to mitigate global warming.
Poland Accord, COP 24 (2018)	Update to COP 21
2030 Climate and Energy Framework 2014 (revised in 2018)	The 2030 climate and energy framework include EU-wide targets and policy objectives for the period from 2021 to 2030.
Energy Efficiency Directive (2016)	Establishes a set of binding measures to help the EU reach its 20% energy efficiency target by 2020
EU Adaptation Strategy	In 2013, the European Commission adopted an EU strategy on adaptation to climate change, welcomed by the EU Member States. The strategy aims to make Europe more climate resilient.
Energy Performance of Buildings Directive (2018)	It includes measures that will accelerate the rate of building renovation towards more energy efficient systems and strengthen the energy performance of new buildings, making them smarter.
Climate Change Act 2009	The Climate Change (Scotland) Act 2009 is an Act of the Scottish Parliament. The Act includes an emissions target, set for the year 2050, for a reduction of at least 80% from the baseline year, 1990. Annual targets for greenhouse gas emissions must also be set, after consultation the relevant advisory bodies.

Name	Details
RPP3 (2018-2032)	Climate Change Plan: third report on proposals and policies 2018-2032 (RPP3) This plan sets out the path to a low carbon economy while helping to deliver sustainable economic growth and secure the wider benefits to a greener, fairer and healthier Scotland in 2032.^f
Climate Change Act 2019	The Climate Change (Emissions Reduction Targets)(Scotland) Act 2019, which amends the Climate Change (Scotland) Act 2009, sets targets to reduce Scotland's emissions of all greenhouse gases to net-zero by 2045 at the latest, with interim targets for reductions of at least 56% by 2020, 75% by 2030, 90% by 2040.
Scotland's Energy Strategy	Scotland's first energy strategy sets out the Scottish Government's vision for the future energy system in Scotland.
National Transport Strategy	The National Transport Strategy (NTS2) sets out an ambitious and compelling vision for Scotland's transport system for the next 20 years. There are four priorities to support that vision
Zero Waste Plan	2010 doc, self-explanatory
Energy Strategy – Scotland's Energy Efficiency Programme (SEEP)	The 15 to 20 year programme is the cornerstone of Scottish government's approach to energy efficiency, a National Infrastructure Priority.
Climate Change (Duties of Public Bodies: Reporting Requirements)	The statute under which the mandatory climate change reporting framework sits under
National Planning Framework Policy 4	The National Planning Framework 4 will help promote sustainable and inclusive economic growth across all of regions, and to create high-quality, diverse and sustainable places that promote wellbeing and attract investment.
Energy Efficiency Scotland Route Map	This route map for the Energy Efficient Scotland programme sets out the journey our homes, businesses and public buildings will take to become more energy efficient.
Fuel Poverty Bill	The target is that in the year 2040, as far as reasonably possible no household in Scotland is in fuel poverty and, in any event – (a)no more than 5% of households in Scotland are in fuel poverty, (b)no more than 1% of households in Scotland are in extreme fuel poverty, (c)the median fuel poverty gap of households in Scotland in fuel poverty is no more than £250
Climate Ready Scotland: Climate Change Adaptation Program 2019-2024	A five year programme to prepare Scotland for the challenges we will face as our climate continues to change.