



DÚN LAOGHAIRE-RATHDOWN COUNTY COUNCIL
**CLIMATE CHANGE
ACTION PLAN**
2019-2024

ANNUAL PROGRESS REPORT 2021

This Annual Progress Report for the Climate Change Action Plan has been prepared by the Dún Laoghaire-Rathdown County Council Climate Action team in conjunction with Codema - Dublin's Energy Agency and the Dublin Metropolitan Climate Action Regional Office (CARO) and in partnership with the Environment and Climate Action Strategic Policy Committee and the Elected Members of Dún Laoghaire-Rathdown County Council.

FOREWORD

With the recent agreement of the Glasgow Climate Pact 2021, at the UN Conference of the Parties (COP26) and the publication of the national Climate Action Plan 2021, we are reminded of the continued need for local level climate action, sustained leadership across communities and shared learning and up-skilling, in addressing both the causes and impacts of climate change.

The Government is continuing to enhance climate action policy and legislation. In July 2021, we saw the enactment of the Climate Action and Low Carbon Development (Amendment) Act 2021. Ireland is now on a legally binding path to net-Zero emissions no later than 2050, and to a 51% reduction in emissions by the end of this decade. The Act provides the framework for Ireland to meet its international and EU climate commitments and to become a leader in addressing climate change. The role of local authorities is a key priority of the Act.

Climate change has no boundaries and we continue to see how its impacts affect our local communities, homes and businesses. In implementing and monitoring their Climate Change Action Plans, the four Dublin local authorities, continue to foster a shared approach to enhance the climate resilience of Dublin, as a city region. This is undertaken with the continued support and engagement of a range of partners including, Government departments, sectoral agencies, the private sector, third level institutions and groups representing local communities.

This year, we advanced our efforts in citizen engagement and climate action. Dún-Laoghaire Rathdown County Council had the honour of chairing the Steering Group and hosting the launch of the first Dublin Climate Action Week, which took place in September 2021. This was undertaken together with South Dublin County Council, Dublin City Council, Fingal County Council, Codema – Dublin's Energy Agency and the Dublin Climate Action Regional Office (CARO). DCAW21 was all about 'partnership', and we wish to sincerely thank the full range of hosts, speakers and presenters, who contributed to the diverse and imaginative programme of over seventy-five events that took place, throughout the week.

As we continue to implement and monitor the CCAP, the Council and the Elected Members, are committed to mainstreaming climate action across our buildings, facilities, functions and services. These efforts were recognised this year by the Sustainable Energy Authority of Ireland, awarding dlr with the top prize of 'Energy Team of the Year' at the 2021 SEAI Energy Awards.



Robert Burns
Director of Service,
Infrastructure and Climate Change Department

INTRODUCTION

This Report is the second Annual Progress Report for the Council's Climate Change Action Plan 2019-2024, covering the reporting period October 2020 to October 2021. For the purposes of this Annual Progress Report, twenty two (22) new actions have been added, across the five thematic areas of the Plan.

Dún Laoghaire Rathdown County Council's - Climate Change Action Plan 2019-2024 was approved in May 2019, in accordance with the National Adaptation Framework – Planning for a Climate Resilient Ireland 2018 (NAF). The approved Plan sets out a range of actions that the Council will undertake, in the areas of energy and buildings, transport, flood resilience, nature based solutions and resource management. The Plan was developed by Dún Laoghaire-Rathdown County Council in conjunction with Codema – Dublin's Energy Agency and the Dublin Climate Action Regional Office (CARO). The Plan was subject to public consultation, and Strategic Environmental Assessment and Appropriate Assessment processes. Annual progress reports are required as part of the NAF and EU Covenant of Mayors protocol. Dún Laoghaire Rathdown County Council has committed to reviewing and reporting on the Climate Change Action Plan annually.

Since the publication of the CCAP, the Council continues to focus its efforts on the implementation and monitoring of the Plan, in the context of the ongoing causes and impacts of climate change. Furthermore, the Council continues to main-stream its efforts and collaborate across departments, staff and Elected Members, to achieve energy efficiency and emission reductions across its own buildings, facilities, functions and services, and influence climate action in the wider community. This is derived from the Council's Corporate Plan, a core value of which is 'Climate First - Adopt a climate first approach to decision making'.

dlr won the top prize of 'Energy Team of the Year' at the 2021 SEAI Energy Awards, held on Thursday 21st October 2021. In giving this prestigious award to dlr, SEAI stated, 'They are continuously improving energy efficiency and carbon reduction through their ISO 50001 Energy Management System. Dún Laoghaire – Rathdown's goal is to set an example for other local authorities by creating sustainable, cost effective and zero-carbon towns and villages' (SEAI, 2021).

The four Dublin local authorities in conjunction with

Codema and CARO, organised and delivered the inaugural Dublin Climate Action Week (DCAW21), which took place in September 2021. The overall vision of DCAW21 was – 'to highlight Dublin's climate action progress to its citizens and demonstrate the leadership role of the four local authorities in conjunction with other partners'. A Steering Group chaired by Dún Laoghaire-Rathdown County Council, worked together to devise a programme of events and promotional material to showcase the shared objectives of the initiative, which were to:

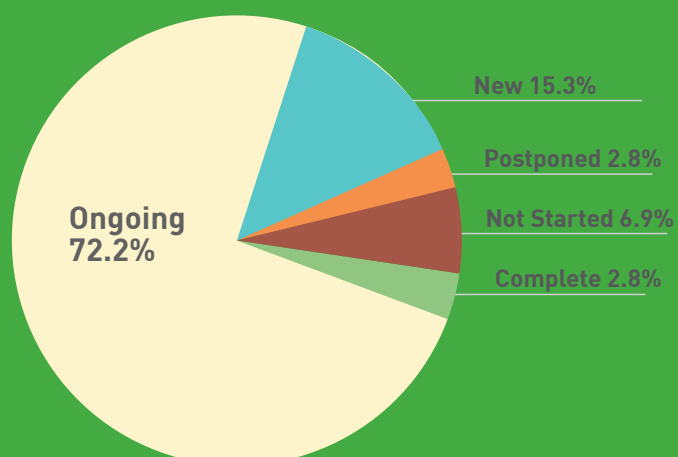
- Demonstrate progress on the implementation of the four Dublin local authority Climate Change Action Plans, and a regional approach to climate action;
- Engage with a full range of partners to share knowledge on efforts and innovation across sectors;
- Make climate action a 'reality' allowing citizens to see what climate action looks like;
- Promote this initiative so as to fully engage with EU and international cities and our climate peers; and
- Create a legacy so that this initiative can carry forward to subsequent years in a variety of ways.

Over seventy five (75) online and in person events took place throughout the week, which included webinars, workshops, site visits, cycles and walking tours. Further information on DCAW21 is available at www.dublinclimateactionweek.ie.

This Annual Progress Report presents a summary of progress to date and includes new Actions, across the five theme areas. The following sections of this report provide an overview of progress across each theme area, a detailed update on each individual CCAP action is contained in the action tables in this document. The majority of actions are broad-ranging and have a rolling duration, and are generally greater than one year in life-span. For example, actions such as gulley cleaning or coastal defence monitoring activities, will always be fundamental in increasing the adaptive capacity of Council services to address climate change. The ongoing and rolling nature of such actions will be needed in perpetuity and are likely to take a higher level of priority in the future. As such the progress of this CCAP should not be solely measured on the number of 'Completed' actions, but rather the mainstreaming of climate action across all LA functions and services, and enabling the County to become a more climate resilient area, as part of the wider Dublin city region.



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ACTIONS



ACTION AREA	NO. OF ACTIONS	COMPLETE	ONGOING	POSTPONED	NOT STARTED	NEW
Energy & Buildings	25 Actions	1 Action	20 Actions	0 Actions	1 Action	3 Actions
Transport	26 Actions	1 Action	18 Actions	0 Actions	0 Actions	7 Actions
Flood Resilience	25 Actions	1 Action	18 Actions	0 Actions	2 Actions	4 Actions
Nature-Based Solutions	39 Actions	1 Action	27 Actions	3 Actions	6 Actions	2 Actions
Resource Management	29 Actions	0 Actions	21 Actions	1 Action	1 Action	6 Actions
TOTALS	144	4	104	4	10	22

UPDATES TO POLICY AND LEGISLATION SINCE THE ADOPTION OF THE CCAP

The policy and legislative context relating to climate action is continually evolving, recent updates are summarised below.

The Climate Action Plan 2021 was published on 4th November 2021. The Plan aims to put Ireland on a more sustainable path, cutting emissions, creating a cleaner, greener economy and society and protecting Ireland from the consequences of climate change. The Climate Action Plan follows the Climate Act 2021, which commits Ireland to a legally binding target of net-zero greenhouse gas emissions no later than 2050, and a reduction of 51% by 2030. These targets are a key pillar of the Programme for Government. The plan sets out indicative ranges of emissions reductions for each sector of the economy. It also sets out the actions needed to deliver on our climate targets. The emissions reduction ranges by sector are as follows:

- Electricity: 62-81%
- Transport: 42-50%
- Buildings: 44-56%
- Industry/Enterprise: 29-41%
- Agriculture: 22-30% reduction
- Land Use, Land Use Change and Forestry (LULUCF): 37-58%

The Government will support the changes through major public investment announced recently in the €165bn National Development Plan, including increased funding for retrofitting our homes, building new public transport, reskilling workers, and supporting a just transition. The Climate Action Plan 2021 also sets out the following specific local authority actions, with the support of the Climate Action Regional Offices (CAROs):

- Each local authority will prepare a Climate Action Plan at least once every five years, containing both mitigation and adaptation measures.
- Each local authority will develop a decarbonisation zone within its administrative area that will become the focus for a range of climate mitigation, adaptation and biodiversity measures. This process will include the identification of projects and their associated outcomes that will contribute to achieving our national climate targets.

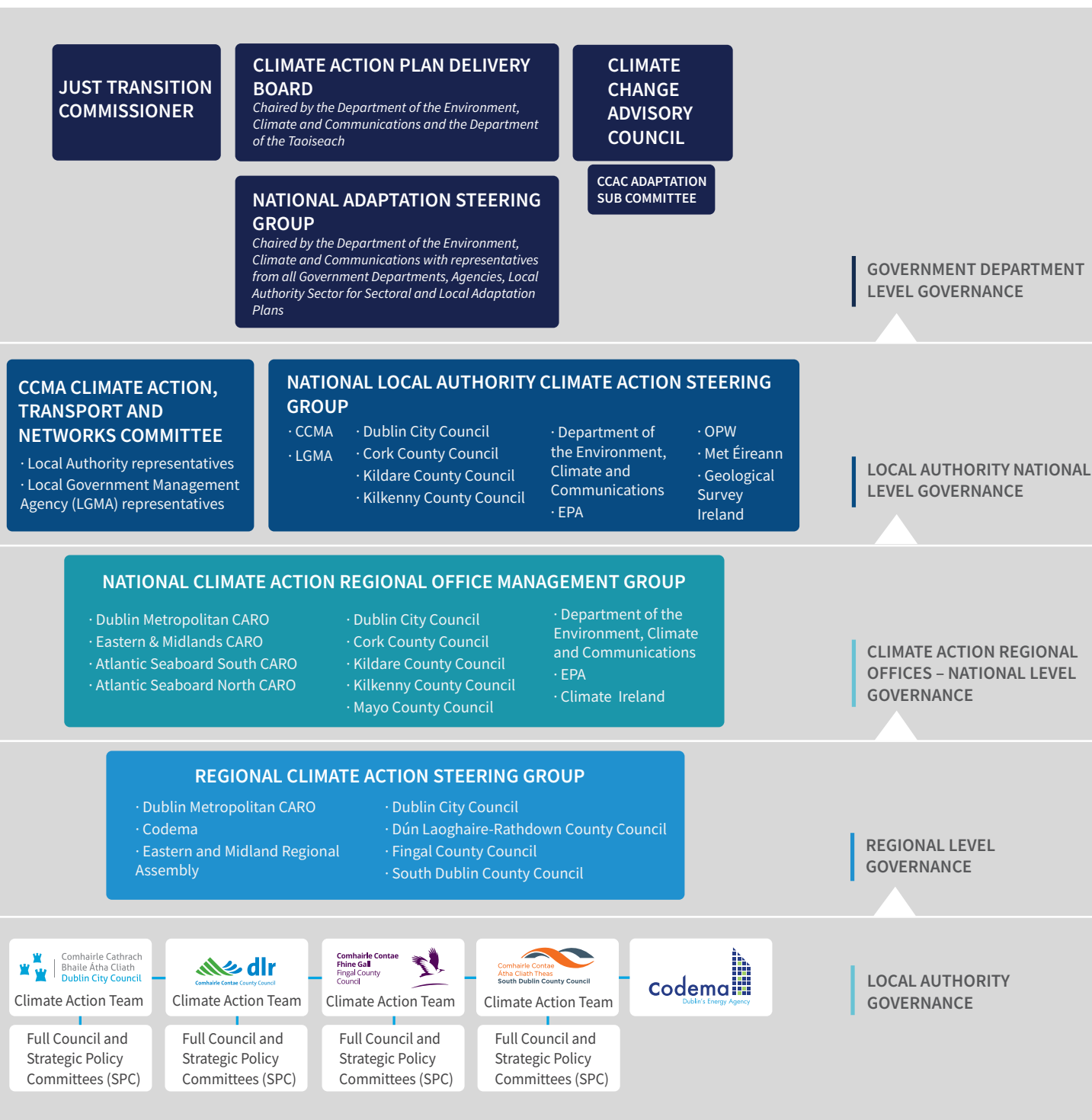
The Climate Action and Low Carbon Development (Amendment) Act 2021 was signed into law on the 23rd of July 2021, enacting the pursuit of a higher level of climate action targets and ambition over the next decades including for the local government sector. The Act provides for approval of plans, by the government, towards achieving the National Climate Objective, which is the transitioning of the country to a climate resilient, biodiversity rich, environmentally sustainable, and climate neutral economy, by no later than 2050. The Act introduces the development of carbon budgets and sectoral emission ceilings covering successive five-year periods up to 2050. In October 2021, the Climate Change Advisory Council finalised two five-year carbon budgets which seek to reduce Ireland's greenhouse gas emissions by 51% within a decade. The carbon budget for the period 2021-2025 aims to reduce emissions by 4.8% on average annually for five years, while the second budget from 2026-2030 will look to increase that annual reduction to 8.3%.

The Act also refers to the role of local authorities in addressing climate action. Within twelve months of the enactment of the Act, local authorities will be requested by the Minister to prepare and make Local Authority Climate Action Plans. These Plans are to highlight the mitigation and adaptation measures that will be adopted during the next five year period. Local Authority Climate Action Plans are to be consistent with the most recently approved Climate Action Plan and National Adaptation Framework and have regard for the most recently approved Long-Term Climate Action Strategy, the most recently approved Sectoral Adaptation Plans, the National Planning Framework and any current Climate Change Policies. Local authorities are to cooperate with adjoining local authorities in the development of their Climate Action Plans.

To support local authorities in the preparation of their Local Authority Climate Action Plan and in response to the provisions of the Act, Climate Ireland, the EPA and the Climate Action Regional Offices, are working in partnership to advance a set of guidelines for local authorities. As the four Dublin Local Authorities have already prepared Climate Change Action Plans, comprising adaptation and mitigation actions, it is the intention that existing plans will be aligned with the requirement of this new national guidance and increased level of ambition stemming from the Climate Action and Low Carbon Development (Amendment) Act 2021 and the Climate Action Plan 2021.



This graphic presents a summary of climate action governance from Local Authority level to National Government level.



Summary of National to Local Authority Level Climate Action Governance

(Please note, this graphic is a summary for information only as it was not possible to include all Department, Agency and group names on this graphic)

The Act also includes an amendment of Section 10 (2) (n) of the Planning and Development Act 2000 (as amended) whereby, to reduce anthropogenic greenhouse gas emissions as well as addressing adaptation requirements, County Development Plans will need to take account of Local Authority Climate Action Plans. Furthermore, mid-term reviews of the respective City and County Development Plans, will be an important aspect of future iterations of Local Authority Climate Action Plans.

Conference of the Parties (COP) 26

Ireland is a signatory to the United Nations Framework Convention on Climate Change (UNFCCC) since 2016. For nearly three decades, the UN has been convening 195 signatory countries and 191 parties for Global Climate Summits called 'COPs' which stands for 'Conference of the Parties'. As an EU member state, Ireland is bound to targets for the EU-27 and as such attended COP 26 in Glasgow in November 2021. At the Paris climate summit in December 2015 (COP 21), 196 nations agreed to hold global temperature rises to "well below 2°C (degree Celsius)," with an aspiration to limit rises to 1.5°C above pre-industrial levels.

At COP 26, the main outcome was the agreement of the Glasgow Climate Pact, which comprises the following key items:

- Gases are nowhere near enough to prevent planetary warming from exceeding 1.5 degrees above pre-industrial temperatures.
- To attempt to solve this, it asks governments to strengthen those targets by the end of 2022, rather than every five years, as previously required.
- Failure to set, and meet, tougher emissions-cutting goals would have huge consequences. Scientists say that to go beyond a rise of 1.5°C would unleash extreme sea level rise and catastrophes including crippling droughts, monstrous storms and wildfires far worse than those the world is already suffering.
- The pact for the first time includes language that asks countries to reduce their reliance on coal and roll back fossil fuel subsidies, moves that would target the energy sources that scientists say are the primary drivers of manmade climate change.
- The deal made some headway on the demands of poor and vulnerable countries that wealthy countries responsible for most emissions pay up.

In August 2021, the first of three Working Group reports from the **Intergovernmental Panel on Climate Change (IPCC) 6th Assessment report (AR6)** was published.

The Working group 1 report: The Physical Science Basis addresses the most updated physical understanding of the climate system and climate change and draws the following conclusions:

- Recent changes in the climate are widespread, rapid, and intensifying, and unprecedented in thousands of years;
- It is indisputable that human activities are causing climate change, making extreme climate events, including heat waves, heavy rainfall, and droughts, more frequent and severe;
- To limit global warming, strong, rapid, and sustained reductions in CO₂, methane, and other greenhouse gases are necessary;
- This would not only reduce the consequences of climate change but also improve air quality;
- Climate change is already affecting every region on Earth, in multiple ways;
- The changes we experience will increase with further warming;
- There's no going back from some changes in the climate system. However, some changes could be slowed and others could be stopped by limiting warming; and
- Unless there are immediate, rapid, and large-scale reductions in greenhouse gas emissions, limiting warming to 1.5°C will be beyond reach.

The Climate Status of Ireland 2020 Report was published in August 2021. The report prepared for the Environmental Protection Agency, Marine Institute and Met Éireann by MaREI, University College Cork confirms and updates findings from a 2012 report and details how global changes are being reflected in our atmosphere, oceans and our landscape. Key findings include:

- The annual average surface air temperature in Ireland has increased by over 0.9°C over the last 120 years, with a rise in temperature being observed in all seasons;
- Annual precipitation was 6% higher in the period 1989 to 2018, compared to the 30-year period 1961 to 1990;



- The concentration of the main climate driver: greenhouse gases - carbon dioxide, methane and nitrous oxide - measured in Ireland, continued to increase since 2012 with long term implications for our climate;
- Satellite observations indicate that the sea level around Ireland has risen by approximately 2-3mm per year since the early 1990s;
- Measurements in the surface water to the west of Ireland indicate an increase in ocean acidity which is comparable to the rate of change in oceans around the world;
- The average sea surface temperature measured at Malin Head has been 0.47°C higher over the last ten years compared to the period 1981-2010;
- There is an increase in river flows across most of Ireland since the early 1970s. However, there is evidence in recent years of an increase in potential drought conditions especially in the east; and
- Land cover observations since 1990 show increases in the areas covered by artificial surfaces and forest whilst there is a decrease in wetland areas.

Climate action features prominently in the new **Housing for All - a New Housing Plan for Ireland** which was published in September 2021. The actions in Housing for All have been developed to support the targets and objectives of the National Planning Framework and the Climate Action Plan. Of particular relevance to the local authority sector is that *'to improve the quality of existing Local Authority owned housing stock, Local Authorities will retrofit 36,500 Local Authority homes to a B2/cost optimal Building Energy Rating (BER) by 2030.'*

The National Development Plan (NDP) 2021 to 2030 was published on October 4th 2021. In relation to Climate Action and the Environment, extensive efforts have been made to ensure that the NDP will support the Government's climate ambitions. For the first time in Ireland, climate and environmental assessment of the NDP measures has been undertaken, along with an assessment of the alignment of the plan as a whole, with the ideals of a green recovery plan. Significant funding commitments are detailed in relation to a range of areas relevant to climate action, including investments in public transport, active travel such as walking and cycling, funding for retrofitting projects, investment in energy efficiency and renewable energy. The role of spatial planning is particularly important in driving climate action and low carbon development.

National Biodiversity Action Plan Audit 2021 The National Biodiversity Forum audited the Interim Review of Ireland's National Biodiversity Action Plan, which expires in 2021. They have suggested that the Government can use the SDGs and the Climate Action Units established in some departments, as frameworks for mainstreaming biodiversity across policy and beyond and that this should be complemented by establishing a cross-party working group on biodiversity. They have called for the extension of, and increased linkages between, protected areas to address migrations due to climate change. They have also sought for Government to stimulate and facilitate cross-disciplinary research between biodiversity, climate, water and economics. They state that nature and biodiversity can play a central role in achieving national and sub-national net-zero carbon targets.

DECARBONISING ZONES

The National Climate Action Plan 2019 contains 183 actions some of which are relevant to the Local Authority Sector. The Department of Housing Local Government and Heritage are the lead for Action 165 of the National Climate Action Plan 2019 which requires Local Authorities to identify and implement a 'Decarbonising Zone' (DZ) in each of their areas. A circular issued by DHLGH to Local Authorities in February 2021 requires that *'Once candidate decarbonising zones are identified, and subject to additional guidance and feedback each local authority must develop DZ Implementation Plans.'* A DZ Working group has been set up chaired by DHLGH comprising representatives of DECC, SEAI, EMRA, CCMA, LGMA, OPR and CARO with a view to assisting the sector in implementing this action.

The new Climate Action Plan 2021 states that each local authority will develop a decarbonisation zone within its administrative area that will become the focus for a range of climate mitigation, adaptation and biodiversity measures. This process will include the identification of projects and their associated outcomes that will contribute to achieving our national climate targets.

In April 2021, the Council submitted a DZ Position Paper to the DHLGH, outlining a number of DZ areas of interest across the County. Whilst the Council is confident that each area of interest identified in the Position Paper has merit, in being selected as a Decarbonising Zone, it is considered that the greatest return will be achieved by the local authority working in collaboration with local partners including business groups, developers and communities. The Council wishes to further engage with local partners in

advance of the final selection of a DZ in the County. Climate Action Plan 2021 and related sectoral emissions ceilings will also be an important consideration in this regard. Furthermore, the four Dublin local authorities, together with Codema and CARO, have committed to working together on a co-ordinated and consistent approach to identifying and developing DZ across the Dublin city region.

COVID-19 IMPACT

The Economic and Social Research Institute (ESRI) noted in its August 2021 report 'Exploring the Impact of Covid-19 and Recovery Paths for the Economy' that 'the economic outlook is uncertain and depends on factors including the possibility of new waves of the virus, the emergence of new virus mutations, the stringency and duration of continued and/or new containment measures, the success of measures in controlling the spread of the virus, effective vaccines being rolled out and the behavioural response of consumers and firms when the economy reopens etc.'

Local authorities continue to respond to the additional needs of businesses and citizens during this time. At the launch of the first Dublin Climate Action Week on Monday 13th September 2021 at dlr LexIcon, Tom McHugh, dlr interim Chief Executive, said local authorities in Dublin and across Ireland were continuing to respond to and adapt to the needs of local communities. In addition, Minister Eamon Ryan TD also stated that, local authorities and communities were critical to addressing the crises of climate, biodiversity and pollution.

This has included adaptations to public realm, involving the provision of outdoor dining space, footpath space and cycling infrastructure to improve the liveability and mobility in areas, and to support businesses operating under

Covid-19 restrictions. The use of and access to green space and other local authority facilities was important to Dublin citizens during times of restrictions. The restrictions on movement, including air travel, resulted in more Dubliners having "staycations" and foregoing foreign holidays. This resulted in increased numbers of people using local amenities, parks and beaches and also additional demands on parking, access paths and visitor facilities.

Dún Laoghaire-Rathdown County Council was one of the first Local Authorities in Ireland, to introduce significant mobility and public realm measures, in order to respond to some of the challenges of Covid-19. The re-configuration and redesign of Blackrock Village Main Street and the introduction of the Coastal Mobility Route, along the coast road from Seapoint to Sandycove, were the first two projects implemented, followed by Glasthule Village, Dundrum Village and Dalkey Village. The Council has worked with Technological University Dublin to undertake a review and evaluation of the Covid-19 Mobility and Public Realm Works. The works in Blackrock Main Street have resulted in a significant 25% increase in public space. The award winning, Coastal Mobility Route, has seen 2.7 times more cyclists since its introduction, an average of 13,243 cyclists per week from September-December 2020, with signs of significant growth over the four week period March-April 2021, with 20,133 cyclists a week.

In Summer 2021, the Council's 'Summer Streets' initiative aimed to provide safe, welcoming, and people-friendly public spaces in towns and villages and bring life, food, and energy to the County's streets. This was a cross-departmental initiative, with a specific Outdoor Dining Group established to engage and collaborate with hospitality businesses and deal with requests and queries related to outdoor dining. It involved the reallocation of existing car parking spaces, to provide attractive, safe spaces for cafés, restaurants and pubs, allowing diners to enjoy the food offerings in comfortable outdoor surroundings, throughout the busy summer period. This included works in Cabinteely, Blackrock, George's Street Lower in Dún Laoghaire, including parts of Convent Road, Sussex Street and Myrtle Square.

The decline of activities during the Covid-19 pandemic was found to have caused a 6.4% decrease of global GHG emissions, or 2.3 billion tonnes, in 2020. This was significant but was lower than scientists expected, and the United Nations Environment Programme estimates that the world would need to cut carbon emissions by 7.6% per year for the next decade, to prevent the globe from warming more than 1.5°C above pre-industrial levels. Reductions on this scale would be even larger than 2020's drop in



dlr Summer Streets at Myrtle Square, Dún Laoghaire



emissions. In Ireland, estimates prepared by the EPA and SEAI indicate a reduction in Ireland's total emissions of 5.9% in 2020, compared to 2019 levels, which is lower than the global average. There was wide variation in reductions between different sectors, with transport and aviation emissions, showing the greatest decreases both nationally and globally, in both studies. A sustained reduction in GHG emissions is required to address climate change, as GHGs remain in the atmosphere for many years. Despite economic and travel restrictions in the first quarter of 2021, Ireland's GHG emissions in 2021 have risen compared to 2020 levels, according to a review by Friends of the Environment, as a return to "business as usual" occurs.

The UN Environment Programme warns that, despite the Covid-19 drop in emissions, the world is still heading for a temperature rise in excess of 3°C this century – far beyond the Paris Agreement goals of limiting global warming, to well below 2°C and pursuing 1.5°C. However, a low-carbon pandemic recovery could cut 25% off the greenhouse emissions expected in 2030, based on policies in place before Covid-19. UNEP estimates that this would achieve even greater savings than the original Nationally Determined Contributions (NDCs) under the Paris Agreement, and put the world close to the 2°C pathway. The pandemic has highlighted that a global collective action on a sustained basis is necessary to achieve meaningful GHG reductions.

CODEMA UPDATE

ENERGY MANAGEMENT

Codema assists in the direct energy management within Dún-Laoghaire-Rathdown County Council, completing the SEAI Monitoring and Reporting, to show the authority's progress towards its 2020 33% energy efficiency improvement target, and now its revised 50% improvement target for 2030. dlr has surpassed its 2020 energy efficiency target by reducing its energy use by 51% compared to the baseline. In addition to this, a target of a 51% absolute reduction in energy-related GHGs has also been set by 2030. This target will use a separate baseline to the energy efficiency target, taking an average of emissions from 2016-2018. Codema has begun to assess what additional actions will be required to achieve this target, using the latest Gap-to-Target tool developed by SEAI. By the end of 2020, dlr had reduced its GHG emissions by 26% compared to this baseline. Codema assists the Council in the implementation of their ISO 50001 Energy Management System (EnMS), to drive energy performance and energy awareness throughout the Council. A significant part of this role is attending the monthly energy team meetings and preparing monthly energy reports for each of the five

Significant Energy Users (SEUs) identified in dlr. In 2021, twenty Display Energy Certificates (DECs) were generated for public buildings. Codema has worked with dlr Leisure to develop the Council's first Energy Performance Contract for the three leisure centres: Ballyogan, Loughlinstown and Monkstown. Codema was heavily involved in the procurement of this project, culminating in the contract being signed in 2021.

ENERGY AND CLIMATE AWARENESS

As one of the organising partners, Codema worked very closely with Dún Laoghaire-Rathdown County Council throughout the organisation and implementation of Dublin Climate Action Week 2021. There was excellent synergy and collaboration achieved across the Codema, CARO and the Dublin local authority climate teams, resulting in a cohesive and informative week of events. Codema continued to support the Home Energy Saving Kit Scheme across Dún Laoghaire-Rathdown County Council's libraries. Energy saving resources and social media content were provided to the libraries, in order to maintain interest in the kits during the Covid-19 pandemic; when the kits were unavailable to borrow. Codema developed a recorded demonstration of the Home Energy Saving Kits in order for the council's libraries to promote the scheme during Dublin Climate Action Week in September 2021. A webinar focusing on saving energy in the home was also provided during Dublin Climate Action Week, targeted at library patrons as well as the general public. The Home Energy Saving Kit scheme has continued to expand nationally, with the kits now available to borrow from 116 libraries across Ireland.

DUBLIN REGION ENERGY MASTER PLAN

Codema is developing the Dublin Regional Energy Master Plan through the SEAI Research, Development and Demonstration (RD&D) programme. The aim of this project is to evaluate and outline the cost-optimal, spatially possible and technically feasible, low-carbon scenarios for Dublin to meet its 2030 and 2050 CO₂ reduction targets from the perspective of society, energy consumers and the energy sector. This project looks at the three main energy sectors (heat, electricity and transport) and the synergies between them, to deliver more cost-effective low-carbon pathways for the region. It will look at current and future policy impacts and shortfalls to targets, needed to make Dublin net carbon neutral by 2050. This is the first master plan of its kind in Ireland to look at the County and indeed small area level and to assess which solutions will work best within local constraints. The finished plan will aid local authority Planners and other decision makers in all energy related plans in the future.

SUSTAINABLE ENERGY COMMUNITIES (SEC)

Codema are the coordinators for the SEAI Sustainable Energy Communities (SEC) Programme for the Dublin and Mid East region. The seven counties (4 Dublin LAs, Kildare, Wicklow and Meath) are each provided with a mentor to help advise the SECs and assist with their progress, from learning about energy and climate change, to conducting an Energy Master Plan (EMP) and Registry of Opportunities, to finally undertaking projects. The aim is to upskill and educate, but also to reduce energy consumption through behavioural change, energy efficiency, renewable and smart solutions. The seven local authorities are currently acting as lead applicants, on behalf of the SECs for their Energy Master Plans providing finance to activate grants and procurement expertise for hiring consultants. Work has been carried out to improve and streamline the EMP process, to make it more accessible for SECs, by reducing risk and highlighting stakeholders throughout the energy master plan. The tender will last for four years and has already proved very popular with twenty-seven new SECs signing up in 2021, and a current total of one hundred and forty SECs.

EU PROJECTS

An area Codema has extensive knowledge and experience in, is the application and execution of EU projects across a range of funding streams, at present we have several active projects, namely:

TOMORROW: With the support of the H2020 'TOMORROW' project, Codema has made significant progress in relation to the Dublin Energy Transition Roadmap. Through an engaging workshop in April 2021, Codema and the four Dublin Local Authorities identified key "frontrunners" across a diverse range of sectors to join the existing Transition Team. This team now consists of eighteen, highly motivated individuals tasked with - developing a collaborative Transition Roadmap for the Dublin Region by the end of 2022, which will motivate citizens, local businesses, public authorities and transport groups to work together towards the same goal of developing Dublin as a sustainable, healthy, leading EU city by 2050. The Transition Team will be taking part in eight workshops. The Transition Team has already been involved in the development of a brand name and visual identity for the roadmap process and successfully selected the name "Zero Together", which will be used to promote and engage stakeholders and the wider public in the development of the roadmap. As part of the wider public engagement campaign, Codema has developed and launched a survey to get the public's views on how to move Dublin away from fossil fuels. The responses to this will guide the Transition Team in how to better engage the public around the energy used at home, at work and while on the move, as well as inform actions for the Zero Together roadmap.

Decarb City Pipes: Codema are partners in the Decarb City Pipes 2050 project, which started in September 2020. This project is focused on the decarbonisation of heat through capacity building in cities. This includes creating local working groups (made up of key local stakeholders within the cities of Bilbao, Bratislava, Dublin, Munich, Rotterdam, Vienna and Winterthur), to outline gaps in knowledge and current practices (planning methodologies, tools, policy instruments, effective governance structures, etc.) and then go about addressing these gaps, through deep peer-to-peer learning with input from an experienced advisory board. An in-depth engagement process will be adopted to develop these roadmaps, to build strong effective working relationships within each city, and ensure strong buy-in from stakeholders. As part of this engagement process Codema have set up a local working group of key stakeholders for Dublin which includes the ESB, Gas Networks Ireland, Dublin City Council, Sustainable Energy Authority of Ireland, Commission for Regulating Utilities, representatives from the Department of the Environment, Climate and Communication, and Geological Survey Ireland. This group has agreed a heating outlook for Dublin, as well as its members partaking in peer-to-peer knowledge sharing sessions in areas such as geothermal energy, example boiler replacement studies etc.

REDAP (Regional Energy Demand Analysis Portal) project, which was approved under the 2018 European Research Area Network (ERA-Net) Smart Energy Systems fund and is supported by the Sustainable Energy Authority of Ireland. REDAP, which started in November 2019 and will continue till March 2022, presents a cross-sectoral approach to regional energy systems and will help end-users to spatially visualise and better understand the characteristics of urban energy demand. This project builds on the work Codema had previously done in developing the Spatial Energy Demand Analysis (SEDAs). Similar to the SEDAs, this project gives insight into the building stock and also provides information on the transport sector. It combines GIS with urban energy planning data to provide an integrated approach to energy in both the building and transport sectors, and spatial planning. This in turn enables planners, policy-makers and investors to make more informed decisions relating to energy demand, energy efficiency and renewable energy alternatives, whilst also generating an increased evidence base, to inform further project feasibility and implementation.

QGasSP: Codema along with Tallinn University of Technology (TalTech), Stockholm Environment Institute (SEI) and Oivan were awarded the tender for QGasSP. This research is financed through the European Spatial Planning Observation Network (ESPON) Programme, which



is an applied research programme aimed at supporting the formulation of territorial development policies in Europe. The objective of this research project is to produce a methodology that will allow planning authorities at national, regional and local administrative levels, to quantify the influence of spatial planning policies on GHG emissions in a consistent manner. More specifically, the objective is to address the knowledge demands and technical requirements of the four stakeholders included within this Targeted Analysis Project, namely, the Eastern and Midlands Regional Authority (IE) who are the lead stakeholder in this project; Scottish Government – Planning & Architecture Division (UK); Department of Infrastructure, Northern Ireland (UK); and Regional Council of Kymenlaakso (FI). The ESPON Targeted Analysis is a tool to develop cross-border evidence. For this project, the purpose of the targeted analysis is to identify robust methods for quantifying the relative impact on GHG emissions of alternative spatial planning policies to inform strategic alternatives. Codema's role in this project is to lead the case study pilots, building related GHG methodology and data collection. This project specifically targets the EMRA's RSES Regional Policy Objective (RPO) 3.6 - *City and county development plans shall undergo assessment of their impact on carbon reduction targets and shall include measures to monitor and review progress towards carbon reduction targets.*

DeliveREE will create an innovative project finance and delivery structure for EE projects in the Dublin region, across four municipalities, using various performance-based contracting structures. By creating a structured approach, DeliveREE will accelerate the formation of large-scale projects by standardising the project development process, allowing projects of various types and sizes to be aggregated to create scale. This enables the use of energy performance and energy supply contracts, whose performance guarantees are both critical for achieving value for money and provide a mechanism for the involvement of private capital. DeliveREE will do this by:

- Creating a 'one stop shop' Project Implementation Unit (PIU) for project owners to go to for energy saving projects;
- Creating an innovative standardised central project delivery system for processing potential projects to achieve speed of;
- Assessment and give confidence and familiarity to clients & market players;
- Removing legal and administrative barriers through cooperatively designing approved assessment templates and;

- Procedures to ensure quality control and due diligence;
- Aggregating projects, bundling multiple small and medium projects together to attract ECo market and private financing, and gain large scale impact on efficiency in the building stock; and
- Using a range of performance-based contracts to ensure long-term guaranteed energy savings, and de-risk cash-flows.

DeliveREE will test and develop the PIU with the roll-out of a pipeline of EE projects in public sector buildings and services across the four Dublin Local Authorities over four years. The pipeline includes over 140 buildings and sites across the four municipalities, including a mix of building types such as leisure centres, fire stations, theatres, libraries, head offices, community buildings and landfill treatment facilities. The project will save an average of 24GWh energy savings over the contract lifetime, amounting to 3.8 ktCO₂ savings. The total CapEx of the pipeline is €19.5m, with an estimated total contract value of these energy projects of circa €23.5m, of which at least €9.75m will be privately financed. Based on the consortium's experience of delivering projects with a mix of financing sources, we aim to have a financing split of 20% project owner, 30% grant and 50% private financing on average across the contracts.

The DeliveREE consortium consists of technical, facilitation, project management, communications, procurement, legal and financial experts, as well as project owners who will test the DeliveREE structure. In addition to the four Dublin local authorities and Codema, the consortium includes:

- Resourceful Futures Ltd (UK) bring their extensive experience in legal, commercial and finance, from developing and deploying energy transition (power, heat and energy efficiency) and circular economy projects, to remove legal and administrative barriers, and add bankability due diligence and project risk allocation;
- Philip Lee Solicitors Ltd has vast legal experience in large energy infrastructure projects and will provide expertise to ensure compliance with legal and regulatory requirements, including public procurement advice; and
- Sustainable Development Capital LLC (SDCL) bring their in-depth experience of investing in EE; they manage the Irish Energy Efficiency fund and invest in EE retrofit projects and seek a return based on savings achieved.

CLIMATE ACTION REGIONAL OFFICE (CARO) UPDATE

The Climate Action Regional Offices (CAROs) were established in 2018 in response to Action 8 of the 2018 National Adaptation Framework (NAF) – Planning for a Climate Resilient Ireland. The offices are mandated to co-ordinate engagement across the varying levels of government and help build on experience and expertise that exists in the area of climate change and climate action. The offices have a role in driving climate action at both regional and local levels, including supporting the implementation of local adaptation plans/Climate Change Action Plans.

The composition of the four Climate Action Regions has been determined by the geographical and topographical characteristics, vulnerabilities and shared climate risks experienced across local authority areas. The four CARO regions, constituent local authorities and associated lead authorities are shown in the table on this page.

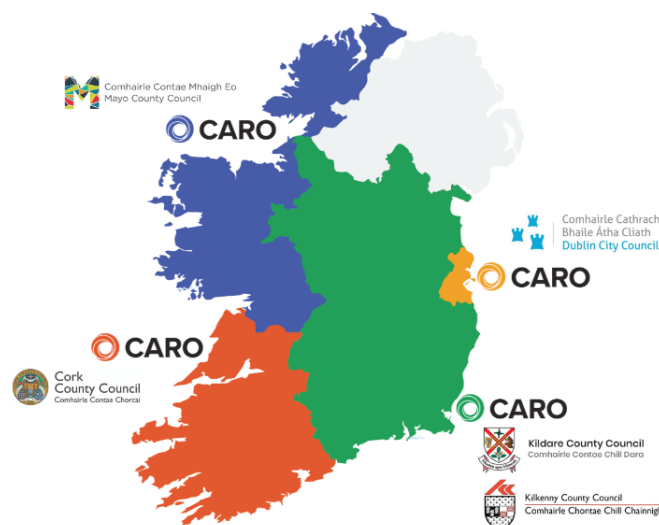
The Dublin Metropolitan CARO has been working closely with the four Dublin Climate Teams and Codema, the Dublin Energy Agency to support the implementation of their Climate Change Action Plans. The Dublin CARO has a regional steering group comprising the four Director of Services of the Dublin Local Authorities, and colleagues from Codema and the Eastern and Midland Regional Assembly. Examples of projects across the six key areas of the CARO work programme are included below;

Management and Governance

- National, Regional and local climate team meetings
- Participation in sectoral adaptation steering groups and working groups
- Preparation of detailed business case to support climate action for the local authority sector
- Participation in relevant CCMA/LGMA and Government working groups on Climate Action

Climate Adaptation

- Assisting local authorities with implementation and reporting of Climate Change Adaptation /Action Plans including implementation guidance
- Preparation of guidance such as guidance document for adaptation of regional & local roads
- Working with Government Departments and agencies on the implementation of sectoral adaptation plans
- Collaborating with key climate actors such as Climate Ireland, 3rd Level Universities
- Participation on National Working Groups such as new Coastal Change Strategy Steering Group



Climate Action Regional Offices (CAROs)

CLIMATE ACTION REGION	LOCAL AUTHORITY FUNCTION AREA	LEAD AUTHORITY
Dublin Metropolitan	South Dublin, Fingal, Dún Laoghaire-Rathdown, Dublin City	Dublin City Council
Eastern and Midlands	Carlow, Cavan, Kildare, Kilkenny, Laois, Leitrim, Longford, Louth, Meath, Monaghan, Offaly, Roscommon, Tipperary, Waterford, Westmeath, Wexford, Wicklow	Kildare County Council with support from Kilkenny County Council
Atlantic Seaboard North	Donegal, Sligo, Mayo, Galway City & County	Mayo County Council
Atlantic Seaboard South	Clare, Limerick, Kerry, Cork City & County	Cork County Council

Climate Action Regional Offices



Climate Mitigation

- Preparation of guidance on topics such as Decarbonisation Zones, Sustainable Energy Communities, Carbon Offsetting etc.
- Participation in Regional and National Electric Vehicle (EV) working groups
- Collaboration with energy agencies (where in place) and SEAI on energy related projects
- Identifying and assisting local authorities with projects eligible for the National Climate Action Fund

Communications and Citizen Engagement

- Presentations to Councils, Government Departments and Agencies, youth organisations and the general public
- Supporting individual local authorities with community engagement events including climate action workshops
- Collaboration with key stakeholders such as GAA on Green Clubs Programme, Comhairle Na Nóg, Age Friendly Ireland etc.
- Use of CARO website and social media communication channels
- Prepare submissions on climate relevant public consultations
- Assist Local Authorities with 'Climate Conversations' with PPNs and Comhairle Na Nóg as part of public consultation to National Climate Action Plan 2021

Training And Education

- Preparation and rollout of a comprehensive Climate Action training plan for the LA sector across all levels (see below for further details)
- Identification of external training and upskilling opportunities in climate action for the Local Authority Sector
- Collaboration with expert organisations and representative bodies for tailored workshops and training seminars

Knowledge Development

- Development of online Weather Impacts Register App (WIRE) for Local Authorities
- Preparation of guidance and position papers on climate action areas
- Identification and communication of funding opportunities for climate action projects in local authorities and assistance with application process
- Participation in relevant climate action research projects from the Environmental Protection Agency research programmes and other funding programmes
- Engaging with local authorities and Regional Assemblies on planning issues relating to climate action including the hosting of planning workshops

A key focus of the CARO work programme for 2021 has been the roll out of climate action training across the local authority sector. This training plan has been developed by the CAROs in collaboration with partners such as the Local Authority Environmental Services Training Group (LASTNG), Climate Ireland, the Sustainable Energy Authority of Ireland (SEAI), Met Éireann, the Environmental Protection Agency, the Institute for Public Administration and others. Training has been targeted at all staff levels and focuses on the following six pillar areas;

- *Climate Action Leadership* – aimed at all elected members & senior staff
- *Climate Action Awareness Training* – aimed at building capacity across climate action teams
- *General Awareness Building* – online training for all indoor staff to raise awareness of climate action
- *Practical Climate Action* – training for all outdoor staff to assist them to deliver practical climate action measures
- *Behavioral Change Training* – to empower staff to promote positive change both internally and across the community
- *Specific and Targeted Training* – training arising from specific knowledge gaps or individual policy/role requirements, such as spatial planning, flood risk management and green public procurement.

Despite Covid-19 restrictions, the training programme advanced in interactive online formats and workshops throughout the year across all counties. Four of the six training pillars having commenced with over 6,500 staff completing the Raising Awareness training alone. Championing Leadership training has been completed by 560 senior staff and elected members across fifteen local authorities. Other key work areas for Dublin CARO throughout 2021 included:

Strengthening communications

This has been primarily involved developing the CARO website and the CARO quarterly e-newsletter. The CARO website was launched in February 2021 and has had over 127,000 views to date. The most popular sections of the website include projects, research, local authority climate action, training and academic courses. The CARO newsletter has many subscribers across a range of local authorities, agencies, government departments, academia and members of the public. Both the website and the newsletter are key tools for dissemination of information on climate policy, research, funding, events, training and examples of climate action work across the local authority sector.

Community outreach

Working with the four Dublin local authorities and Codema, a significant amount of work and events were undertaken as part of the Dublin Climate Action Week in September 2021, to deliver a programme of in person and online events, to showcase climate action. Additional outreach will be achieved through the delivery of recorded webinars on the CARO website for future use. Other events have included working with partners such as Age Friendly Ireland, An Taisce Climate Ambassadors and 3rd Level universities, to participate in events and workshops on climate action.

Changing behaviour and empowering local adaptation

CARO provided supports in completing two successful applications on behalf of local authorities, to the Creative Ireland 'Creative Climate Action' Fund:

- Dublin City Council successfully applied for funding from Creative Ireland for the '*Creative Climate Action Crumlin*' project. This one-year project commenced in September 2021 with community workshops. Project partners are: DCC (project lead), Crumlin Community Clean Up (community lead), Dublin Circus Project, CARO, Codema and other partners. The target is to develop programmes of behavioural change created by 3,000 residents to influence the wider community. It involves local community leaders, scientists, artists, activists through a year-long festival of events in Crumlin, for capacity-building and long term results. A project coordinator is to be appointed in Q4 2021.
- Trinity College Dublin in conjunction with CARO and with support of a number of local authorities submitted a successful application to the Creative Ireland Climate Action Fund. The project entitled '*Línte na Farraige*' is a collaborative project, with a team including scientists, based at TCD, Maynooth University, University College Cork, the Dublin CARO, local authorities, Irish creators, and Finnish artists Timo Aho and Pekka Niittyvirta. It seeks to connect the public visually and tangibly to the risks from future sea level rise. Interactive educational resources provided on the project website and information boards, will encourage the participant to understand societies role in reducing carbon emissions. A selection of videos will be created to record the visual art for future generations. The planning phase of the project has commenced with installations due to be in place in Q2 2022.

Providing expertise to national policy formation

CARO contributed to policy development as a member of expert groups and for the following publications:

- Project Advisory Group on Local Authority Climate Action Plan Guidelines;
- Dublin Local Authority Electric Vehicle Charging Strategy;
- Local Authority Electrification of Fleet and EV Charging Guidance;
- Local Authority Green Procurement Training Steering Group; and
- Dublin's Energy Transition Roadmap (Zero Together).



**LOCAL AUTHORITY
Climate Action**
Training Programme

PROGRESS SUMMARY BY CCAP ACTION AREA

ENERGY & BUILDINGS

Energy in buildings and homes across the country, continues to be a primary focus in addressing climate and energy targets, to 2030 and 2050. Dún Laoghaire Rathdown County Council continues to main-stream its efforts and collaborate across departments, to achieve energy efficiency and emission reductions across its own buildings, facilities, functions and services, and influence climate action in the wider community. This is derived from the Council's Corporate Plan, a core value of which is 'Climate First - Adopt a climate first approach to decision making'.

dlr won the top prize of 'Energy Team of the Year' at the 2021 SEAI Energy Awards, held on Thursday 21st October 2021. In giving this prestigious award to dlr, SEAI stated, 'They are continuously improving energy efficiency and carbon reduction through their ISO 50001 Energy Management System. Dún Laoghaire – Rathdown's goal is to set an example for other Local Authorities by creating sustainable, cost effective and zero-carbon towns and villages' (SEAI, 2021).

The Council continues to make progress in both the development of new homes, and the energy upgrade and refurbishment of the existing housing stock. With regard to new residential development, the tender process has commenced for the largest social and affordable scheme in the country at Shanganagh Castle, Shankill, Co. Dublin. The development will see Dún Laoghaire-Rathdown County Council and the Land Development Agency (LDA) deliver 597 new homes. The development has been specified to the highest international environmental and

sustainability standards and will be one of the largest in Europe, to achieve the passive house low energy use standard.

The Council has delivered fifteen new build projects in the last five years, to a minimum of nZEB standard with some achieving passive house standard. Three other projects are currently under construction, whilst a further four projects, including the Shanganagh Castle housing scheme, are at pre-tender or tender stage. The Council has also been working with Approved Housing Bodies (AHBs) to deliver new homes, and all of the properties will be used to house people from the social housing list. In addition, AHBs and the Council are working together to deliver sustainable homes for cost rental.

Refurbishment works, including significant energy upgrades, were completed on fifty Council-owned properties in 2020, under the Voids Programme. The Housing Department has worked with SSE Airtricity to upgrade fifty three Council-owned properties to B2/Cost Optimal BER during 2021. The works carried out on the properties included external wall and attic insulation, solar PV, new doors and windows, blocking of fireplaces and low energy lighting. The Housing Maintenance Section continues to examine the information available from the Climote devices previously installed, to identify suitable properties for future Energy Efficiency Retrofit Programmes.

In 2020, the Council improved its energy performance by 51%, compared to the baseline year of 2009, and is continually improving its own energy efficiency and carbon reduction, through the ISO 50001 Energy Management



dlr Energy Team of the Year 2021



Home upgrades at Drinaghmore Court

System. Accordingly, the Council has achieved its energy efficiency goal of 33% energy efficiency savings by 2020. Continuing on from this milestone, SEAI has now set a new 50% energy efficiency target by 2030, reflecting the national climate objective, as set out in the Climate Action and Low Carbon Development (Amendment) Act 2021. Furthermore, In the past year, dlr Leisure signed an Energy Performance contract for the Meadowbrook, Loughlinstown and Monkstown leisure centres.

The Council continues to participate in SEAI's Sustainable Energy Communities (SEC) programme. This national programme currently consists of over four hundred communities around Ireland, who are interested in community energy. Under this network, groups of people can come together to improve how energy is used for the benefit of their community. Energy communities often look at projects in homes, transport and local business. They also look at community buildings such as schools, community centres, and sports facilities. dlr has partnered with Shankill Action for a Green Earth (SAGE) and Belarmine Sustainable Energy Communities, to provide bridge financing, to support the preparation of comprehensive Energy Master Plans (EMP) for the areas. The completed EMPs will include a Register of Opportunities, which is a range of projects that the SECs could move forward with into the future.

The Council is a partner in a number of European funded projects relating to Energy and Buildings, with other partners from Dublin, across Ireland and at European level. dlr is a partner in the EU Horizon 2020 funded DeliverEE project, together with a range of partners including Codema – Dublin's Energy Agency and the three other Dublin local authorities.

This project will support the retrofit of a range of Council facilities such as leisure centres, fire stations, theatres, libraries, offices, community buildings and landfill treatment sites. This pipeline of projects will be completed over the next four years and is expected to reduce carbon emissions in Dublin by almost 4,000 tonnes.

Together with Smart Sandyford, the Council has secured funding through the European Commission's Green Deal's flagship project PROBONO, with Dún Laoghaire-Rathdown as lead city, with a consortium of municipalities, solution providers and experts from across Europe, to execute Living Labs in interconnected Green Buildings and Neighbourhoods..

Codema is currently working with dlr and the other Dublin local authorities on an application to SEAI's Public Sector Pathfinder Retrofit Programme, with a focus on low-carbon and energy efficiency retrofit projects. The Pathfinder funding scheme, co-funded by the Department of the Environment, Climate and Communications, provides capital funding for energy retrofit building projects, aimed at testing approaches and developing a model that can be replicated across the wider public sector.

In October 2021, the Council's Architect's department hosted a Home Energy Upgrade webinar, as part of Open House 2021. This featured examples and insights from architects and energy experts on what can be achieved with an energy upgrade, and what supports are available. The online event included speakers from SEAI, Electric Ireland Superhomes, the Irish Green Building Council, Codema and the Dalkey Sustainable Energy Community.

TRANSPORT

Transport is the largest source of energy-related emissions in Ireland. In 2019, it was responsible for 41%. It is also the sector where emissions have grown the most since the end of the recession in 2012. Transport continues to dominate as the largest energy-consuming sector, with a 42% share of final consumption. Electric vehicles made up 3.0% of new private cars in 2019, but just 0.3% of the total stock of private cars (SEAI, 2020). dlr continues to demonstrate national leadership, in improving pedestrian and cycling infrastructure, to encourage the uptake of cycling and walking throughout the County.

Dún Laoghaire-Rathdown County Council was one of the first Local Authorities in Ireland, to introduce significant mobility and public realm measures, in order to respond to some of the challenges of Covid-19. The re-configuration and redesign of Blackrock Village Main Street and the



The poster features the dlr logo at the top left, with the text 'Dún Laoghaire-Rathdown County Council' below it. It includes two images: a modern house with solar panels and a bright, open-plan living room. The main text reads 'Free Webinar on Home Energy Upgrades' in large blue letters, followed by 'How to make your home comfortable and save energy' in green. The date 'Sunday 17th October 2021' and the theme 'Inspiration from architects and energy experts' are listed below. The website 'www.openhousedublin.com' is at the bottom left, and the 'Open House Dublin' logo is at the bottom right.

dlr Home Energy Upgrade Webinar 2021



introduction of the Coastal Mobility Route, along the coast road from Seapoint to Sandycove, were the first two projects implemented, followed closely by Glasthule Village, Dundrum Village and Dalkey Village.

The primary objectives of the Council's Covid-19 Mobility and Public Realm works are to:

- Increase outdoor social distancing space for pedestrians in villages;
- Increase cycling and pedestrian comfort and safety;
- Reduce pressure on public transport capacity by providing a sustainable mobility alternative;
- Decrease reliance on private vehicles for short journeys, while increasing the use of walking and cycling as transport modes for a wide range of users; and
- Support economic development in villages/urban centres.

The Council has worked with Technological University Dublin to undertake a review and evaluation of the Covid-19 Mobility and Public Realm Works. The works in Blackrock Main Street have resulted in a significant 25% increase in public space. This reallocation of road space partially away from private vehicles and towards pedestrians and cyclists, coupled with the introduction of street furniture and planting that support and encourage outdoor use of public space, has led to a considerable increase in the public life of Blackrock Main Street. The award winning, Coastal Mobility Route, involved the reallocation of one direction of vehicular traffic away from vehicles and towards cyclists, through the implementation of a two-way segregated and dedicated cycle-lane. The route runs along the coast road for 3.6km with segregated cycle facilities, and 4.5km in total from Seapoint to Sandycove via Dún Laoghaire. This route has seen 2.7

times more cyclists since its introduction, an average of 13,243 cyclists per week from September-December 2020, with signs of significant growth over the four week period March-April 2021, with 20,133 cyclists a week.

In Summer 2021, the Council's 'Summer Streets' initiative aimed to provide safe, welcoming, and people-friendly public spaces in towns and villages and bring life, food, and energy to the County's streets. This was a cross-departmental initiative, with a specific Outdoor Dining Group established to engage and collaborate with hospitality businesses and deal with requests and queries related to outdoor dining. It involved the reallocation of existing car parking spaces, to provide attractive, safe spaces for cafés, restaurants and pubs, allowing diners to enjoy the food offerings in comfortable outdoor surroundings, throughout the busy summer period. In Cabinteely, two pocket spaces with public seating were provided, whilst retaining existing loading and delivery spaces within the village. From the 5th July 2021 to the 30th September 2021, the Council pedestrianised some streets in Dún Laoghaire. These streets included George's Street Lower and parts of Convent Road, Sussex Street and Myrtle Square. The Council wished to create a safe and welcoming environment for locals and visitors, with more space to move around, to shop, and to socialise. Planters with trees and underplanting were installed, along with seating and picnic tables made available for the public. The increase in flora and fauna was evident, by foliage and presence of bees in the area, which also adds an ecological benefit. During the trial, Lower George's Street had a 13% increase in footfall.

The Bike Hub was launched in Dún Laoghaire in June 2021. This new facility gives people access to cycling regardless



dlr Cargo Bikes



dlr Inclusive Cycling for All

of their age, ability or income. The Bike Hub provides cycles which can be used by people with disabilities and upcycle donated bikes for people on low incomes. Located opposite the RNLI station in Dún Laoghaire harbour, the hub also hosts two trishaws bought by the Council and also cycles that can be used by people with different abilities. The trishaws have been piloted by volunteers from Cycling Without Age, who take up to two passengers out for gentle spins along Dún Laoghaire's Coastal Mobility route. The Bike Hub also hosts a handcycle for use by wheelchair users, a tricycle for older people or those who have trouble with their balance and a tandem. It also offers bike maintenance and safe cycling workshops for Transition Year students in the County. Trishaws have also been made available for use on the Slang River Greenway and cycle routes in Marlay Park.

In May 2021, dlr, Smart Sandyford and bike sharing operator Bleeper, launched a pilot project which aims to enable businesses based in the County to trial eCargo bikes, for the delivery of their products or services to clients. The project gives local businesses access to electric or eCargo bikes at a discounted rate, enabling them to replace delivery/service trips, which would otherwise have been taken by car or by van, with more sustainable means. The bikes have a cargo carrying capacity of 60kg, and have a battery which can last for up to 160km and can be fully recharged in 6 hours.

The Council is supporting University College Dublin in the delivery of the EU funded WeCount project. To enhance local knowledge of traffic and travel patterns across the County, dlr residents were invited to engage in the WeCount project, by hosting a sensor at the front of their property. Placed at a window with a clear view of the street outside, the sensor will count cars, bikes, pedestrians and heavy vehicles, thereby helping to build a traffic profile of the local area. The sensor will also monitor local air pollution, to establish a direct link between traffic and local pollution and build a stronger argument towards sustainability. UCD also carried out an online webinar on the WeCount project, as part of Dublin Climate Action Week 2021.

The Council has prepared the new Draft County Development Plan, which is at Material Alterations Stage. In making the new Plan, the Council continues to plan for future growth by promoting the integration of transport and land use planning, with a focus on compact growth, served by high quality public transport. The Draft Development Plan also introduces a number of new concepts including the "10-minute" neighbourhood

whereby people can access the services they need, such as shops, parks, playgrounds, schools, all within a ten minute time frame of their home, by walking cycling or using public transport. These efforts continue to contribute to a shift away from the use of private car, which reduces greenhouse gas emissions, improves air quality and enhances quality of life.

In 2021, the four Dublin Local Authorities prepared a Draft Dublin Region Air Quality Plan, to reduce levels of Nitrogen Dioxide (NO₂) in ambient air in Dublin. The Draft Plan was on public consultation from Monday 18th October to Monday 15th November 2021. Once finalised, the Plan will be submitted for consideration by the Environmental Protection Agency (EPA) and the Department of the Environment, Climate and Communications, in advance of final approval by the European Commission.

FLOOD RESILIENCE

The Council is active across all aspects of flood risk management, from prevention to emergency response, through to infrastructural investment following extreme weather events. This includes actions that consider flood risks arising from climate change through development policies, collaboration with the OPW on flood defence projects, own delivery of minor flood defence projects, use of nature-based solutions to manage flood risks, including use of Green Roofs, activation of the Severe Weather Assessment Team and flood emergency response plans, upgrading of culvert screens and installation of monitoring cameras and rebuilding infrastructure in the aftermath of extreme weather events.

The Kilbogget Park Flood Storage System was opened in May 2021. This Office of Public Works (OPW) funded structure, is built to hold back water in the stream during very heavy rainfall and allow flood waters to build up safely in the wetland area. The slower release of water will help to protect properties from flooding downstream in the Wyattville and Killiney areas. The large screen contained within the structure, is designed to prevent blockage by river debris and maintain a path for the water to the culvert.

Work has commenced on the Bray Landfill Coastal Protection Project and involves the stabilisation and protection of approximately 300 metres of cliff frontage. The purpose of these works is to address the ongoing issue of erosion of landfill waste material, from the cliff-face and depositing onto the beach in front. This will be addressed



through the installation of coastal defences, including the installation of rock armour and coastal protection along the cliff face and on the beach. The rock is being imported from local building sites in Killiney and surrounding areas. Access paths will be provided along the new embankment, with access to the beach front.

dlr is taking part in a newly launched €10 million Horizon 2020 project, that aims to increase climate resilience in European coastal cities. The Dún Laoghaire based 'Dublin Coastal City Living Lab' was developed through the Smart Sandyford research programme which facilitates local government, academics and industry working together on smart city research. The four year project, SCORE, (Smart Control of the Climate Resilience in European Coastal Cities), outlines a comprehensive strategy, developed via a network of ten coastal city 'living labs', to rapidly, equitably and sustainably enhance coastal city climate resilience through an Ecosystem-Based Approach (EBA), supported by sophisticated digital technologies. The intensification of extreme weather events, coastal erosion and sea-level rise are major challenges to be urgently addressed by European coastal cities. The project will involve citizen science in providing prototype coastal city early-warning systems and will enable smart, instant monitoring and control of climate resilience in European coastal cities.

The Council is also a partner in the EU funded PRECINT project, which aims to address the risk of critical infrastructure from natural hazards and cyber-physical attacks. The project aims to connect private and public critical infrastructure stakeholders in a geographical area, to a common management approach, in increasing the resilience of critical infrastructure.

The dlr Lexicon hosted the first Irish exhibition of the CHERISH Project: Climate Change and Coastal Heritage exhibition, in August and September 2021. The project and related public exhibition aim to raise awareness of the impacts of climate change and extreme weather events on the rich cultural heritage of Ireland's coasts and seas. These impacts include erosion and loss of coastal sites due to wave actions during storms and the acceleration of structural damage to built heritage, such as churches and castles through increased rainfall.

dlr is a partner in the Línthe na Farraige project, which is funded by the Government's Creative Climate Action programme, which forms part of the national Climate Action Fund. This will result in a set of striking visual light installations designed by Finnish artists, that will be placed



Kilbogget Park flood storage scheme



Bray Landfill Coastal Protection Project



CHERISH exhibition at dlr Lexicon

across six Irish coastal sites in Dublin, Wexford and Galway. The installations are to be comprised of illuminated horizontal lines that represent future sea levels and storm surges.

The Council continues to promote nature-based solutions, such as green infrastructure and Sustainable urban Drainage Systems (SuDS), in response to flood risk. Measures that include nature can have multiple benefits beyond flood defence, such as providing new spaces for recreation and habitats for wildlife. The integration of SuDS measures into developments is also undertaken by way of the Development Management and Forward Planning functions of the Council.

NATURE-BASED SOLUTIONS

The Council continues to undertake nature based solution projects and initiatives that promote the importance of preserving and enhancing biodiversity, and promoting eco-systems services across the County. The Council is responsible for over thirty parks of varying sizes and a range of areas of public open space. The Council ensures that these are managed in a sustainable manner to ensure that future generations can enjoy the benefits of these amenities in terms of recreation, health and wellbeing. The Council has also adopted an ethos of not using herbicides or sprays in landscape management of green infrastructure across the County.

Fernhill Park continues to be an exemplar for developing nature based solutions in the County. In October 2021, the Council launched its 'Discover Tree Tag' initiative at Fernhill Park. These informational tags invite the public to

engage in appreciation of the trees they encounter, learn about the benefits that the trees provide and the critical role that trees play, in mitigating the intensifying impacts of climate change. An interactive map has been launched showing the location of the tree tags, this will be updated as new tags are included.

The ongoing development of Fernhill Park is shaped by the aims and objectives established as part of the park masterplan and also guided by the principles of the Fernhill Park and Gardens Sustainable Development Strategy. The overarching approach to the park development is light touch. This implies working with the natural topography of the site, protecting and enhancing the existing site features, minimising impermeable surfaces, maximising the opportunities for planting, prioritising sustainable travel, particularly walking and cycling and the use of soft engineering solutions.

The Council is developing plans to reimagine Myrtle Square in Dún Laoghaire. The square will be a new public space, providing a destination point and an attractive space for locals and visitors to linger, relax, play and enjoy. The square sits in a new location created as a result of the careful dismantling of the block containing numbers 35-37 Lower George's Street. When completed, the scheme will be characterised by nature and greening. A new grove of trees, groundcover and climbing plants will establish a calm, pleasant location. The space will feature a canopy structure, generous public seating and a bespoke multi-tiered play unit. The greener habitat will help to encourage biodiversity and nature into the heart of the town. Myrtle Square also formed part of the Council's Summer Streets initiative in 2021, which aimed to provide spaces for



dlr Summer Streets at George's Street Dún Laoghaire



Fernhill Park woodlands



cafés, restaurants, pubs and other businesses, to operate outdoors throughout the summer period.

In 2021, the Council also completed a new public park 'Blackthorn Park' on a former brownfield site along the Drummartin Link Road, Sandyford Business Park, Dublin 18.

The main features of this park are:

- Transforming a brownfield site to a publicly accessible park; introducing natural mounds and extensive native Irish woodland planting, with natural habitats and improve the carbon footprint of the area;
- The provision of a generous park with new entrances, tree planting, playground, seating, new boundary treatment and wide paths throughout the park;
- Provide a large, accessible playground that includes natural play to meet the needs of local residents.
- Improved pitch facilities; and
- Improved public open space facilities within the area and improved pedestrian linkages.

The Council's Invasive Species Action (IAS) Plan was completed in 2021. A number of IAS actions have commenced including the Carrickmines River Catchment treatment of Giant Hogweed and the Dodder River Catchment treatment of Japanese Knotweed. The Council's Draft Biodiversity Action Plan underwent public consultation in Q3 and is expected to be approved by the Council in Q1 2022.

The Council is also partnered with the Eastern and Midland Regional Assembly (EMRA), in the EU funded PROGRESS project. This project aims to develop a mapping approach which will provide enhanced

information, to make better decisions regarding the management of existing green infrastructure and the planning and design of future Gi in dlr and other locations. It will help to identify the ecosystem services value associated with green infrastructure and help to improve decision making based on available scientific information, but in a user friendly map format. It is envisaged that this project will then be expanded to a regional and/or national level.

RESOURCE MANAGEMENT

The Council continues to reach its targets for enforcement and implement its Recommended Minimum Criteria for Environmental Inspections Plan, working with the Waste Enforcement Regional Lead Authority (WERLA), Environmental Protection Agency (EPA), Trans-Frontier Office and other local authorities. The Council also continues to undertake resource management in line with the Government's Waste Action Plan for a Circular Economy and the Waste Management Plan for the Eastern-Midlands Region.

The Council has adopted a new Litter Management Plan 2021-2023, replacing the previous Litter Management Plan 2018-2020. This plan outlines targets and objectives for tackling litter pollution and also sets out to achieve quantifiable improvements in the prevention of litter, with the following objectives:

- Prevent and control litter pollution in the Dún Laoghaire-Rathdown County Council area;
- Eliminate litter black-spots;
- Develop education & awareness programmes in association with schools/colleges/ communities;
- Support any initiatives, new legislation and actions that will arise from the Waste Action Plan for a Circular Economy; and
- Ensure rigorous enforcement mechanisms of the Act and Bye-Laws are effective.

The Environmental Awareness programmes and campaigns carried out in 2021 included Green-Schools, free public seminars on bike repair, furniture upcycling and clothes repair, Relove Fashion, Picker Pals, Newsletters, Tidy Districts, Community Clean-up Scheme, Recycled Christmas Decoration Competition, Halloween Campaign, A Recycled Christmas Garden at Dundrum Library, Less Waste for Christmas Campaign, Stop Food Waste Christmas Campaign, Stop Food Waste Summer Campaign, Conscious Cup Campaign, Recycling Bin promotion, Anti-Litter Children's Poster Competition, Environment and Climate Action Grant for Communities, Anti-Litter



dlr Discover Tree Tag

Anti-Graffiti Grant Scheme, Community Environment Action Fund, Plastic Free July 2021, Free Hazardous Waste Collection, installation and promotion of Bike Reuse at Ballyogan (Bikes for Africa programme).

The 2021 Dublin Community Clean-up built on the success of the 2019 event, with over 180 clean-ups taking place across Dublin County. This year's event took place from the 11th to the 19th of September, as part of the inaugural Dublin Climate Action Week 2021. Dublin's largest clean-up event was a County-wide collaboration initiative from Dún Laoghaire-Rathdown County Council, Clean Coasts, An Taisce, local volunteers, residents, community groups, Fingal County Council, South Dublin County Council, Dublin City Council, National Spring Clean, Local Authority Waters Programme, Dublin City Canals and Dodder Action. A free mattress amnesty day was organised on Sunday 4th September 2021 at Ballyogan Recycling Park. It gave an opportunity for dlr residents to have their old mattresses recycled, without any cost. The Council held a free household hazardous waste collection on Saturday 11th September 2021, for residents to dispose of any herbicides/pesticides, aerosols, waste engine oils, coolant adhesives, chemicals with identification labels, waste paints, paint thinners, cleaning agents like bleaches and medicine or pharmacy waste. Overall, 1,423 mattresses and 14 tonnes of hazardous waste were collected at these free events.

In 2021, one of the first dlrBETA projects was the piloting of new public bins which accepted pizza boxes only. The first two pizza box bins were trialled in Blackrock and Dalkey. It is intended to expand this project in 2022. The dlrBETA

project aims to engage with the citizens of Dún Laoghaire-Rathdown and to assess submissions from the public on ideas that they have for small scale improvements to the public realm.

In Summer 2021, dlr launched its Take Me Home anti-litter campaign, which was advertised on big belly bins and in various locations around the County. The campaign encouraged people to dispose of their litter responsibly and to keep the County's beauty spots and County clean. The campaign asked the public to take their rubbish to the nearest bin, or to take it home and dispose of it responsibly if one cannot be found nearby.

The Council's Big Belly bins are monitored on a daily basis through a combination of visual inspection, emptying, cleaning and maintenance/replacement of parts, as necessary to ensure serviceability. All Big Belly bins are also recorded on the bespoke application "Clean" for remote monitoring purposes. This application is utilised by staff to optimise the collection service and includes mapping, emptying/service history, repair alerts, up to date data on percentage fullness, collection history and more. The street bin service experienced significant expansion in 2021, through the allocation of additional funding via both the local authority and the Department of the Environment, Climate and Communications, to counteract the increased demands of an outdoor Summer. This enabled the purchase of an additional sixty compacting Big Belly bins and a recycling trial at seventeen strategically selected locations across the County.



Launch of dlr Community Clean-Up 2021



Picker Pals



dlr is supporting University College Dublin in the implementation of the Plastic Raiders project, funded by Science Foundation Ireland. The project combines remote sensing technologies and bottom-up citizen science to create sustainable, inter-generational change in polluting and environmental activism behaviours. The key societal impacts of the citizen science activities will be to raise awareness, engage and empower citizens and consumers with tools to monitor their impacts on the environment. The Council is working with UCD to select a site and work with local vendors, on the tracking of plastic products using sensors and the OpenLitterMap app.










The current dlr Tenant Handbook addresses a range of energy and environmental issues, including water and waste management and awareness. An update on climate action for inclusion in the Local Authority Tenants Handbook is currently being prepared by the Climate Action Regional Offices, including input from the Local Authority National Climate Action Steering Group.









dlrBETA Pizza Box Bin launch



ENERGY & BUILDINGS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
ACTIONS CURRENTLY BUDGETED							
ENERGY PLANNING							
E1	Create Dublin Region Energy Master Plan	In the next 5 years	Codema	Website with e-Map		The analysis stage of the Dublin Region Energy Masterplan has been completed and sets a spatially-led, cost-optimal pathway for Dublin towards 2030 and 2050 targets in the areas of heat, electricity and transport. As part of this project online maps and tools have also been produced and are available on Codema's GitHub webpage at https://github.com/codema-dev	Ongoing
E2	Prepare DLR Sustainable Energy and Climate Action Plan	In the next 5 years	Codema	SECAP document		In October 2019, Codema submitted the four Dublin local authority Sustainable Energy and Climate Action Plan (SECAP) to CoM on behalf of the LAs, which were initially accepted. Updated CoM criteria in the intervening period, now require local authorities to also address climate mitigation across the wider county area (outside the LAs' direct remit/control). Pre-contacting messages concerning the mitigation pillar and the feedback reports were sent to the Dublin local authorities informing the DLAs that the SECAPs are required to be reviewed, to comply with the new CoM SECAP requirements, to address county-wide climate mitigation. Codema is currently reviewing these requirements in consultation with CoM, CARO and the four Dublin local authorities.	Ongoing
E3	Develop and implement Public Lighting Master Plan	In the next 5 years	Infrastructure & Climate Change	Plan completed and ongoing conversion to LEDs	 	This plan was finalised in 2014 and is currently in year 6 of a 10 year programme. dlr had installed over 73% LED in street lighting as of September 2021.	Ongoing
E4	Evidence-based climate change chapter in <i>County Development Plan 2022-2028</i>	In the next 5 years	Planning	Chapter with policies and development management standards	   	A Climate Action chapter has been included in the dlr Draft County Development Plan 2022-2028. The "creation of a climate resilient County" is one of five Strategic County Outcomes which underpins the Draft Plan. Overall, the Draft Plan contains mitigation and adaptation policy objectives throughout the plan, which complement the dlr Climate Action Plan. The Chief Executive's Report on the Submission to the Draft Plan was issued to Elected Members in July 2021. The Members considered the Draft Plan and Chief Executives report in September 2021. Proposed Material Alterations issued on public display in Q4 2021 and the new County Development Plan will be adopted during Q1 2022.	Ongoing
E5	Deep retrofits of housing stock to nZEB or EnerPHit standard	In the next 5 years	Housing	# of units reaching nZEB or EnerPHit Standard		In Q4 2021, the Council will go out to tender for four apartments at Park House, Dun Laoghaire. Two of these apartments are new build in an extension, and two units will be in the existing upgraded building. It is intended that these units will reach the nZEB standard. The Housing Maintenance Section continued its retrofitting programme of the existing social stock in 2021. A total of 53 homes were brought to the required minimum B2/ cost optimal standard as per the Department of Housing, Planning, Local Government and Heritage circulars and funding.	Ongoing












NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
ENERGY EFFICIENCY & RENEWABLES							
E6	Undertake energy efficiency works in the Council's housing stock	In the next 5 years	Housing	% of housing stock with energy efficiency measures implemented		In February (2021) the Council was advised that 2021 would be the first year of a new 10-year Energy Efficiency Retrofit Programme, to retrofit local authority housing stock to a B2/ Cost Optimal BER. The allocation of funds to each Local Authority in 2021 was calculated on a stock percentage basis and with funding allocations based on an expected average cost of €27,000 per property. The Housing Department has worked with SSE Airtricity to upgrade 53 properties in the Council's housing stock to B2/ Cost Optimal BER during 2021. The works carried out in the properties included external wall and attic insulation, solar PV, new doors and windows, blocking of fireplaces and low energy lighting. The Housing Maintenance Section continues to examine the information available from the Climote devices previously installed to identify suitable properties for future Energy Efficiency Retrofit Programmes.	Ongoing
E7	Review all significant energy users within the Council to increase energy efficiencies	In the next 5 years	DLRCC Energy Team, Codema	Review savings monthly through Energy Elephant		The annual Energy Review includes the Significant Energy Users that account for 85% of dlr energy use - public lighting, fleet, (buildings) County Hall, Harbour Square, dlr Lexicon and Ballyogan Operations Centre. Action plans for each SEU to be created and updated annually, by each section, to recognise and plan for energy projects to improve energy efficiencies. Monthly reports are completed for each SEU, reviewing their energy performance on an ongoing basis. These are also reviewed at the Council's internal monthly Energy Team meetings.	Ongoing
E8	Implement EPC project in 3 Council leisure centres	In the next 5 years	DLRCC Energy Team, Codema	Contract signed, measurement and verification of savings		dlr Leisure signed an Energy Performance Contract in June 2021 for 3 leisure centres - Loughlinstown, Monkstown and Meadowbrook. Lawler Sustainability were awarded the contract. Capital upgrades on some plant is currently in progress.	Ongoing
E9	Apply for energy funding through SEAI's BEC, EXEED and deep retrofit programmes	In the next 5 years	DLRCC Energy Team, Codema	# of successful applications		Codema is currently working with dlr and the other Dublin Local Authorities on an application to SEAI's Pathfinder funding scheme, with a focus on low-carbon and energy efficiency retrofit projects. EU funded projects include DeliveREE and ProBono.	Ongoing
E10	Continue upgrading public lighting to LEDs	In the next 5 years	Infra-structure & Climate Change	# of lights upgraded		From January to August 2021 1,866 lights have been upgraded to LED, bringing the total to over 73% of all street lighting in dlr upgraded to LED.	Ongoing
E11	Continued compliance with ISO 50001	In the next 5 years	DLRCC Energy Team, Codema	Certification maintained		ISO 50001 Energy Management System is pursuing continual improvement. The annual ISO 50001 Audit was conducted in November 2021 and dlr has secured continued compliance. There are 12 dlr staff doing ISO 50001 training and 7 others from Fingal and South Dublin County Councils. The Council has passed its first annual surveillance audit to the ISO 50001:2018 standard.	Ongoing



ENERGY & BUILDINGS






NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
E12	Display Energy Certificates for public buildings	In the next 5 years	DLRCC Energy Team, Codema	# of DEC's generated annually for public buildings		Display Energy Certificates have been completed for 2021. Out of 20 buildings that require Display Energy Certificates; 8 are DEC B and the remaining 12 are DEC C or D.	Ongoing
E13	Annual Monitoring and Reporting to SEAI	In the next 5 years	DLRCC Energy Team, Codema	M&R data submitted to SEAI annually		The SEAI (Sustainable Energy Authority of Ireland) M&R (measurement and reporting) Energy Efficiency 2020 data, shows a 51% improvement in energy efficiency, up from 37% in 2019, measured against the 2009 baseline. In terms of emissions, dlr shows a 44% improvement in emissions (baseline 2016-2018 average). Note: The COVID-19 pandemic has influenced these figures for 2020, and as such has a bearing on the trajectory of the improvements.	Ongoing
E14	Promote DLR's exemplar role of energy efficiency in public sector	In the next 5 years	DLRCC Energy Team, Codema	# of exemplar projects promoted		dlr Energy Team was awarded SEAI Energy Team of the Year Award 2021. The Energy Performance Officer / County Architect presented at an online webinar as part of Dublin Climate Action Week 2021, on the topic of 'Low Energy Social Housing and Energy Efficiency'. The introduction of e-bikes and cargo bikes and the expanding cycling infrastructure across the County, is also encouraging an increased modal shift and an increased uptake in Active Travel. A free public webinar on 'Home Energy Upgrades' has been organised with seven Architects and Energy Experts took place on October 17th 2021. Promotion of the energy webinar was carried out through a range of platforms including bus shelter posters, dlr Times, social media and digital screens in dlr public buildings. EV chargers are being rolled out across the County including Ireland's first disabled/ accessible electric charging bay in Dundrum.	Ongoing
E15	Publish Energy Review annually	In the next 5 years	Codema	Review published, # recommendations implemented		The 2021 Energy Review document is currently being prepared. A review is also underway to account for ISO 50001 requirements.	Ongoing
E16	Energy audit of Council-owned historic buildings and develop a programme of works to improve energy efficiency while ensuring measures do not compromise the character of the building	In the next 5 years	Energy Team / All Departments	# of audits complete	 	The Council has prepared a new Heritage Plan 2021-2025, which includes a number of actions relating to built heritage and climate mitigation and adaptation measures. This action can also be further developed in conjunction with the implementation of Archaeological and Built Heritage Climate Change Sectoral Adaptation Plan, which includes actions related to local authorities. The Dublin CARO are represented on the Plan implementation Working Group. There is also scope to involve other stakeholders such as the other Dublin local authorities and the Department of Culture, Heritage and the Gaeltacht.	Ongoing
E17	Facilitate the Small Business Innovation and Research (SBIR) challenge for climate change solutions	In the next 5 years	Smart Dublin	# of successful applications	 	The Enterprise Ireland SBIR Challenge has not yet resumed. The Council will continue to liaise with Enterprise Ireland on the progress of this initiative, in particular through the dlrBETA initiative.	Not started





NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
RESEARCH & INNOVATION							
E18	Monitoring of smart lighting trials in the County	In the next 5 years	Infra-structure & Climate Change	Results from trial	 	Smart lighting trials were undertaken at sites at Sandyford Industrial estate, Kilbogget Park and Deer Park. The main findings of these initial trials were: the need to use technology that is easily scalable, inter-operability of technologies across service providers and trial programmes need to result in cost neutral installations (for savings in other areas, i.e. energy) to enable acceptance for future trials.	Complete
E19	Continue to use Energy Elephant to monitor energy use in Council buildings	In the next 5 years	DLRCC Energy Team, Codema	Monthly energy reports	 	Energy Elephant software is used to track Energy Bills and meter readings in all Council owned buildings, to allow for accurate monitoring of energy costs and energy use by each relevant department. Energy Dashboards for each SEU (Significant Energy User - Buildings) are available on the dlr staff intranet. This enables the Council's annual M&R process to the Sustainable Energy Authority of Ireland.	Ongoing
ENERGY AWARENESS							
E20	Energy awareness initiatives in Council-owned buildings	In the next 5 years	DLRCC Energy Team, Codema	# of staff participating in events and activities	 	Presentation to all staff by the dlr Energy Coordinator February 2021, as part of the Climate Action Section led, Staff Climate Awareness talks series. dlr Staff Energy Quiz to raise awareness of energy performance, September 2021 had 105 participants. The SEAI Carbon emissions video is on display on digital screens in County Hall and dlr Libraries. A Home Energy Kit is available to staff and MyMobilityHub is for dlr staff to avail of electric cars, vans, bikes and cargo bikes.	Ongoing
E21	Monitor and develop the Home Energy Saving Kits in dlr libraries	In the next 5 years	DLRCC Energy Team, Codema	# of kits borrowed	  	In 2020, Codema developed an additional two Home Energy Saving Kits for dlr Libraries, due to ongoing public demand and success of the scheme within the library network. 11 kits are now available for the public to borrow within the dlr library network. The kits were borrowed 133 times in 2020. Codema continued to support the Home Energy Saving Kit Scheme across Dun Laoghaire-Rathdown County Council's libraries in 2020 and 2021. Energy saving resources and social media content were provided to the libraries in order to maintain interest in the kits during the Covid-19 pandemic, when the kits were unavailable to borrow. Codema developed a recorded demonstration of the Home Energy Saving Kits in order for the Council's libraries to promote the scheme during Dublin's first Climate Action Week, in September 2021. A webinar focusing on saving energy in the home was also provided during Dublin Climate Action Week 2021 and was targeted at libraries and the general public. The Home Energy Saving Kit scheme has continued to expand nationally, with the kits now available to borrow from 116 libraries across Ireland.	Ongoing



ENERGY & BUILDINGS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
ACTIONS AWAITING BUDGET							
E22	Expand housing assistance programme to include tenant energy awareness	In the next 5 years	Housing, DLRCC Energy Team	% of tenants attending programme	  	Work on the new dlr Tenant Handbook was completed in January 2021. The new handbook comprises seven distinct documents, that are available to read on the website and are also given to all residents signing a new tenancy with the Council. All documents have been written in plain English and have been awarded the plain English mark by the National Adult Literacy Agency (NALA).	Ongoing
NEW ACTIONS							
E23	Participation in EU DeliverEE Project	In the next 5 years	Housing, DLRCC Energy Team	# of project actions and deliverables completed	 	dlr is a partner in the EU Horizon 2020 funded DeliverEE project, together with a range of partners including Codema and the other three Dublin local authorities. The DeliverEE project, will support the retrofit of a range of Council facilities such as leisure centres, fire stations, theatres, libraries, offices, community buildings and landfill treatment sites. This pipeline of projects will be completed over the next four years and is expected to reduce carbon emissions in Dublin by almost 4,000 tonnes. A key part of the project will involve creating an innovative, standardised finance and delivery system for rolling out energy-efficiency and renewable energy projects at scale in Dublin. This will work by processing and assessing potential projects quickly and efficiently, in order to identify the most suitable buildings to upgrade.	New



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
E24	Dublin Climate Action Week 2021	In the next 5 years	Dublin local authorities, Codema, CARO	# of events and attendees		The four Dublin local authorities in conjunction with Codema and CARO organised and delivered 'Dublin Climate Action Week' in September 2021. The overall vision of Dublin Climate Action Week 2021 was – 'to highlight Dublin's climate action progress to its citizens and demonstrate the leadership role of the four local authorities in conjunction with other partners'. A steering group chaired by dlr, worked together to devise a programme of events and promotional material. In total, over 75 in-person and on-line events were delivered across the CCAP theme areas of Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions, Resource Management and Citizen Engagement. The website continues to be a repository of information containing recordings of events and links to local authority work in the area of climate action. In addition to the website, the handle #DCAW21 was used in conjunction with regional and local videos and various media to promote, and highlight the activities during the week both locally nationally and internationally.	New
E25	H2020 PROBONO Project	In the next 5 years	IT - Information Technology	# of project actions and deliverables completed		Under the European Green Deal, PROBONO, embraces nature conservation to develop green buildings within our communities. The aim of the project is to enable buildings, towns and cities to evolve naturally over time, whilst not putting pressure on the environment. Central to the development towards green buildings is sustainability, highlighting the need for working with new technologies and services through planning, design, manufacturing, construction, and operational steps of a building's life-cycle. Integrating green building approaches need to allow for energy generation options and to provide energy management/optimisation controls for both building and neighbourhoods. Through this project, advanced approaches on the optimisation of energy generation and distribution in Green Buildings and their Neighbourhoods GBNS, will be developed and trialled, to be scaled across Europe.	New



TRANSPORT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	Progress report 2021	STATUS
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ACTIONS CURRENTLY BUDGETED

OPERATIONS



T1	Increase number of electric vehicles in the Council fleet	In the next 5 years	Ballyogan Operations Centre	# of EVs procured		There were 6 EV's purchased for the Council Fleet in 2021. There are now 27 EV vehicles in the Council fleet.	Ongoing
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PLANNING & PUBLIC REALM

T2	Reduce parking to provide for sustainable travel alternatives	In the next 5 years	Traffic	Reduction in on-street car parking numbers		<p>2021</p> <ul style="list-style-type: none"> • 8 car parking spaces removed to provide for 40 cycle stands (80 cycle parking spaces). • 45 car parking spaces have been temporarily reallocated for outdoor dining, in Cabinteely, Stepaside, Foxrock, Sandyford Village, Blackrock, Monkstown, Dunlaoghaire, Glasthule, Dalkey and Sallynoggin. • 9 car parking spaces removed to provide EV charge points in Sandyford and Dundrum. 	Ongoing
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ACTIVE TRAVEL & BEHAVIOUR CHANGE




T3	Promotion of road safety and active travel in schools	In the next 5 years	Traffic	# of road safety events and initiatives		<p>The Council issued the Cycling Bus Guide, Walking Bus Guide and a Travel Plan Guide to all schools in 2021.</p> <p>A total of 80 school wardens (including reserves) were assigned to operate near schools in 2021, to help children cross busy roads at school times.</p> <p>The Council supported the delivery of Cycle training in schools as part of the DTTaS Cycle Right programme.</p> <ul style="list-style-type: none"> • 2019 - 1455 pupils in 31 schools • 2020 - 944 pupils in 20 schools • 2021 - 837 pupils in 17 schools <p>It should be noted that cycle training could not take place during several months in 2020 and 2021 due to Covid-19 restrictions. The Council delivered Cycle Parking to schools in 2020 and 2021</p> <ul style="list-style-type: none"> • 2021 – 155 cycle parking stands 340 scooter stands supplied to 26 schools <p>The AXA Road Safety Show did not proceed in 2020 or 2021 due to Covid-19 restrictions. However, transition year students in schools were invited to take part in a virtual Axa Road Safety Show hosted by Mayo County Council in April 2021.</p> <p>Several events were held during Bike Week, September 2021 including a family 6km cycle (Blackrock to Newtownsmith), public bike clinics and webinars related to cycling.</p>	Ongoing
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NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	Progress report 2021	STATUS
T3						<p>Bike theft campaign was carried out in June 2021 in conjunction with An Garda Síochána The "Lock It or Lose It" campaign aimed to raise awareness of bike security within the cycling community and encouraged cyclists to purchase a good bike lock when buying a bike</p> <p>The Active School Travel initiative is aimed at encouraging increased walking and cycling to school in the back to school period and beyond. This included the launch of an interactive web map, a parent's pamphlet and 70+ submissions from schools, parents and Councillors were received through the Report It tool. This process facilitated the provision of such measures as bike parking, traffic cones, enhanced road markings, detailed traffic advice etc. at several schools across the County.</p> <p>A school active travel survey was carried out and 9,000 responded from 40 schools across the County.</p> <p>Safe Routes to School Programme, School Zones. The Council is working with NTA and An Taisce Green Schools to develop and deliver the "Safe Routes to School – School zones" initiative in Dun Laoghaire-Rathdown.</p> <p>The aims of the initiative are, to improve safety at the school gate by providing permanent 'front of school' treatments that alleviate congestion and improve access, to improve access routes to school by improving walking and cycling infrastructure and to increase the number of students who cycle to school by expanding the amount of cycle parking.</p> <p>The Council is developing their design and delivery strategy through the undertaking of an initial trial "Safe routes to school – School Zones" at Carysfort National School, Blackrock before progressing with their multi-annual rolling programme to delivering schools zones at other locations around the County.</p>	Ongoing
T4	Develop and expand the County walking network	In the next 5 years	Traffic, Road Maintenance	Length of footway improved, # of new pedestrian crossings, # of pedestrian crossings upgraded with LED lights	 	<p>Zebra crossings installed 2020 & 2021</p> <ol style="list-style-type: none"> 1. Park Drive Cabinteely (St. Brigid's school) 2. Castle Street, Cherrywood 3. Cherrywood Close/Avenue 4. Sandyford Road, Dundrum Car Park 5. Belarmine Vale at the apartments 6. Belarmine Vale at the school 7. Belarmine Close 8. Hudson Road at the playground 9. Wyvern Estate, Killiney at the school 10. Dalkey Square 11. Castlepark Road at the school 12. Castlepark Road/Hyde Road 13. Glencairn Drive <p>Pedestrian Crossings</p> <ol style="list-style-type: none"> 1. Shanganagh Road 2. Glasthule Road 3. Stillorgan Road at Foster's Avenue junction 4. Drummartin Link road at Naomh Olaf's GAA/ Maple Road 5. Overend Way toucan crossing 	Ongoing










TRANSPORT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
T4						<p>Pedestrian improvement schemes</p> <ol style="list-style-type: none"> 1. Castlepark Road junction improvements – 5 junctions 2. Albert Road – St Catherine’s Road junction improvement, 3. Knapton Road – Mounttown Road Upper junction improvement, 4. Silchester Park – Adelaide Road junction improvement 5. Holy Trinity School, Glencairn - footway widening and traffic calming 6. Rosemount & Mount Carmel Avenue - Junction improvements 7. Farrenboley (Dundrum) - Junction improvements 8. Trees Road (Mount Merrion), 9. Village Road Stepside 10. Orby Park, Glencairn Junction improvements <p>2021 Road Maintenance works Programme (projected to end of 2021)</p> <ul style="list-style-type: none"> • Footpath Upgrade Programme works completed to upgrade a footpath length of c. 14 km. • Major Works (‘Roads’ Programme) resulted in the reconstruction/resurfacing of a road length of c. 9.4 km. • Minor Works (‘Patching’ Programme) resulted in a road area of c. 24,052 square metres being reconstructed/resurfaced or the equivalent of c. 3.8km of road. <p>Installation of infrastructure /parklets for outdoor dining</p> <ol style="list-style-type: none"> 1. 80 street furniture licences issues 2. 5 in Cabinteely Village 3. 1 in Sandyford Village 4. 2 in Stepside Village 5. 1 in Foxrock Village 6. More parklets on West side of the County 	Ongoing
T5	dlr Sports Partnership organised walks	In the next 5 years	dlr Sports partnership	# of walks, # of people attending		<p>12 walks organised by dlr Sports Partnership in 2020</p> <p>31 walks organised or planned by dlr Sports Partnership in 2021</p> <p>Walks could not take place in a few months in 2020 and 2021 due to Covid-19 restrictions.</p>	Ongoing
T6	Permeability and connectivity in planning process	In the next 5 years	Transport Planning	Adopted development plan includes permeability		<p>Opportunities are taken as part of the planning process and cycle scheme to include permeability links. The following links were provided as part of cycle schemes in 2021</p> <p>Drummartin Road Cycle Scheme</p> <ul style="list-style-type: none"> • Link to Bearn Park • Improve link to nearby residential areas <p>A number of permeability links have been included in developments as part of the planning process and these will be delivered in the coming years.</p>	Ongoing

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
T7	Develop and extend cycle network	In the next 5 years	Traffic	# km of cycle routes		<p>Cycle Schemes under construction in 2021</p> <ul style="list-style-type: none"> • Drummartin Link Road/Kilgobbin Road cycle route • Stillorgan Road Cycle Scheme (UCD Nova) • Johnstown Road and Sandyford cycle protection schemes • Blackglen Road/Harold's Grange Road Improvement Scheme <p>Cycle Schemes at Design Stage in 2021</p> <p>Dundrum area</p> <ul style="list-style-type: none"> • Clonskeagh Road (UCD to Clonskeagh) • Sandyford Business District Cycle Routes • Brides Glen Luas Link • Cherrywood Greenways Network • Roebuck Road Cycle scheme • Barton Road to the N11 • Taney Road to N11 <p>Dún Laoghaire Area</p> <ul style="list-style-type: none"> • East Coast Trail (Merrion Gates to Seapoint) • Wyattville Road Phase 2 • Stillorgan Park Road cycle scheme • Glenageary Road Cycle scheme • Rochestown Avenue transport scheme <p>Work has also commenced on the Council's Sea to Mountains route, which will link east to west across the County. Starting at Blackrock Dart Station, crossing the N11 to Deerpark. It will then continue south linking to the Sandyford Cycle Route and Kilmacud Luas Stop and on to the Slang River Greenway and Wicklow Way.</p> <p>Glencullen Adventure Park – The Gap also extended their trail network by adding six new trails, which have been 50% funded by the LEADER programme.</p>	
T8	Support the Greater Dublin Cycle Plan	In the next 5 years	Traffic	Plan supported in appropriate policy	 	<p>Cycle Schemes under Construction or due to start in 2021</p> <ul style="list-style-type: none"> • Drummartin Link Road/Kilgobbin Road cycle route • Stillorgan Road Cycle Scheme (UCD Nova) • Johnstown Road and Sandyford cycle protection schemes • Blackglen Road/Harold's Grange Road Improvement Scheme • Active School Travel <p>Cycle Schemes at Design Stage in 2021</p> <p>Dundrum area</p> <ul style="list-style-type: none"> • Clonskeagh Road (UCD to Clonskeagh) • Sandyford Business District Cycle Routes • Brides Glen Luas Link • Cherrywood Greenways Network • Roebuck Road Cycle scheme • Dundrum to Dun Laoghaire • Leopardstown Active Travel Improvements • Taney Road to N11 <p>Dún Laoghaire Area</p> <ul style="list-style-type: none"> • East Coast Trail (Merrion Gates to Seapoint) • Wyattville Road Phase 2 • Stillorgan Park Road cycle scheme • Glenageary Road Cycle scheme • Rochestown Avenue transport scheme • Dún Laoghaire Central 	Ongoing



TRANSPORT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
T9	Cycle Training Programme in schools	In the next 5 years	Traffic	# of students trained	 	<p>The Council supported the delivery of Cycle training in schools as part of the DTTaS Cycle Right programme.</p> <p>2020 - 944 pupils in 20 schools</p> <p>2021 - 837 pupils in 20 schools (April to June)</p> <p>It should be noted that cycle training could not take place during several months due to Covid-19 restrictions.</p>	Ongoing
T10	Develop County bike sharing scheme	In the next 5 years	Traffic	# of bikes in County		Bleperbike and Moby Bike currently have a licence to operate a stationless bike share scheme in the County with permits for 50 bikes. Licence and permit fees were both waived for operators in 2021.	Complete
T11	Cycle parking in public realm	In the next 5 years	Traffic	# of additional cycle parking spaces		<p>The Council delivered Cycle Parking to schools in 2020 and 2021</p> <ul style="list-style-type: none"> • 2020 - Delivery of 30 cycle toaster stands (x 5 cycle stands) to 25 schools. • 2021 – Delivery of 23 cycle toaster stands (x 5 cycle stands) and 31 scooter parking stands (x 10) to 23 schools. <p>A cycle parking GIS map was prepared and launched in 2021. https://dlrcocouncil.maps.arcgis.com/apps/webappviewer/index.html?id=34ca7f5d6a0243bb-9302ba397e596ca8</p>	Ongoing
T12	30 km/h speed limits	In the next 5 years	Traffic	# of roads with 30 km/h speed limit		30km/h speeds limits have been introduced on 750 roads and streets in the County in line with National Guidance. A review of speed limits in the County is due to be carried out in early 2022.	Ongoing
T13	Road maintenance improvements	In the next 5 years	Road Maintenance	Km of regional and local roads with improvement works carried out		<p>2020 Road Maintenance works programme includes the following projects:</p> <ul style="list-style-type: none"> • Major Works ('Roads' Programme) resulted in the reconstruction/resurfacing of a road length of c. 6.2 km. • Minor Works ('Patching' Programme) resulted in a road area of c. 10,630 square metres being reconstructed/resurfaced or the equivalent of c. 1.7km of road. • Footpath Upgrade Programme works completed to upgrade a footpath length of c. 11 km. <p>2021 Road Maintenance works programme:</p> <ul style="list-style-type: none"> • Major Works ('Roads' Programme) resulted in the reconstruction/resurfacing of a road length of c. 9.4 km. • Minor Works ('Patching' Programme) resulted in a road area of c. 24,052 square metres being reconstructed/resurfaced or the equivalent of c. 3.8km of road. • Footpath Upgrade Programme works completed to upgrade a footpath length of c. 14 km. 	Ongoing
PUBLIC TRANSPORT							
T14	Expand bus network in the County	In the next 5 years	Traffic	Work with NTA on Bus Connects		<p>Delivery of bus services and bus routes is being progressed by the National Transport Authority as part of the Bus Connects project and the Council has engaged with the NTA on the following schemes in the County:</p> <ul style="list-style-type: none"> • Stillorgan Road corridor (Bray to City Centre) • Merrion Road Corridor (Blackrock to Merrion) 	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
T15	Expand rail network in the County	In the next 5 years	Transport Planning	Work with NTA and Transport Infrastructure Ireland on MetroLink and Luas expansion		No rail schemes are currently being progressed in the County. A new Dart station is being planned for Woodbrook.	Ongoing
T16	Expand car clubs in the County	In the next 5 years	Traffic	Regulation of car clubs and number of car club vehicles		Car club licences have been issued to two operators to date in the County. 1. 2019-2021 Gocar (33 permits) 2. 2021 - YUKO Toyota Car Club (13 permits)	
T17	Expand EV network in the County	In the next 5 years	Traffic, Public Lighting	# of EV charge points		Public Lighting is installing an additional 7 EV charging units attached to lighting columns and plans to install an additional 4 bollard EV charging units. The provision of EV Charge Points and EV parking are also being sought as part of the Development Management process. An on-street EV charge point was installed in Dundrum in 2021 that was for use by persons with disabled persons permits, the first of its kind in Ireland. Details of EV charge points being managed by ESB can be found on the Ecars Charge Point Map: https://esb.ie/ecars/charge-point-map The Council is represented on the Dublin Regional EV Steering Group including the four Dublin Local Authorities, Smart Dublin and the Dublin CARO (is preparing a Dublin Regional EV Charge Point Strategy in partnership with Element Energy), and the CCMA Local Authority EV Working Group. The role of the CCMA Working Group is to advise local authorities on their role in the provision of EV charging infrastructure including sites and siting for such infrastructure. In August 2021, the CCMA group published their recommendations report for LA's titled, 'The Local Authority Electrification of Fleet and EV Charging Guidance Document'. It is hoped to roll out some EV charge points during Q4 2021.	
T18	Engagement with citizens on new sustainable travel initiatives and schemes	In the next 5 years	Traffic	# of interactions from citizens on DLR Public Consultation Hub on infrastructure schemes and sustainable travel initiatives		Public Consultation was undertaken on the following Active Travel Schemes in 2021 • Sandyford Business District- Cycle Route Improvements Aug to Sept 2021 • Stillorgan Park Road Walking and Cycle Improvement Scheme May to July 2021 • Summer Streets, Dun Laoghaire May to Jun 2021 • Cycle Parking for Sports Clubs May to Sept 2021 • Village Improvements for Sandyford Village Jul to Aug 2021 • Cargo Bike Parking Aug to Sept 2021 Public Consultation took place on the County Development Plan 2022 to 2028 and the process to adopt a new County Development plan is ongoing. Chapter 5 is titled, 'Transport and Mobility'.	Ongoing

ACTIONS AWAITING BUDGET







T19	Replacement of diesel hand sweepers/diesel power washers with electric models	In the next 5 years	Ballyogan Operations Centre	% reduction over initial benchmark, % of CO ₂ saved		The Council is reviewing and engaging with the suppliers available in Ireland to identify alternative electric models that meet the performance criteria for dlr's operations. No equipment was purchased in 2021.	Ongoing
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TRANSPORT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
NEW ACTIONS							
T20	Participation in EU WeCount Project	In the next 5 years	Infrastructure and Climate Change	# of sensors installed across dlr		dlr is supporting University College Dublin in the delivery of the EU funded WeCount project. To enhance local knowledge of traffic and travel patterns across the County, dlr residents were invited to engage in the WeCount project, by hosting a sensor at the front of their property. Placed at a window with a clear view of the street outside, the sensor will count cars, bikes, pedestrians and heavy vehicles, thereby helping to build a traffic profile of the local area. The sensor will also monitor local air pollution, to establish a direct link between traffic and local pollution and build a stronger argument towards sustainability. The WeCount project will carry out five different pilot projects across a number of European cities, Dublin, Cardiff, Leuven, Madrid, Barcelona and Ljubljana. The aim is to quantify local road transport, produce scientific knowledge in the field of mobility and environmental pollution, and devise informed solutions to tackle various road transport challenges UCD also carried out an online webinar on the WeCount project as part of Dublin Climate Action Week 2021.	New
T20	The Bike Hub	In the next 5 years	Inter-departmental	# of bikes and supporting services available		The Bike Hub was launched in Dún Laoghaire in June 2021. This new facility gives people access to cycling regardless of their age, ability or income. The Bike Hub provides cycles which can be used by people with disabilities and upcycle donated bikes for people on low incomes. Located opposite the RNLI station in Dún Laoghaire harbour, the hub also hosts two trishaws bought by the Council and also cycles that can be used by people with different abilities. The trishaws have been piloted by volunteers from Cycling Without Age, who take up to two passengers out for gentle spins along Dún Laoghaire's Coastal Mobility route. Cycling Without Age, which started in Denmark, has traditionally operated with trishaws based in nursing homes, taking residents out for fresh air and social contact. The Bike Hub also hosts a handcycle for use by wheelchair users, a tricycle for older people or those who have trouble with their balance and a tandem. The Bike Hub also offers bike maintenance and safe cycling workshops for Transition Year students in the County. Trishaws have also been made available for use on the Slang River Greenway and cycle routes in Marlay Park.	New
T21	dlr Summer Streets initiative	In the next 5 years	Infrastructure and Climate Change	% increase in footfall on streets pedestrianised		From the 5th July 2021 to the 30th September 2021 the Council pedestrianised some streets in Dún Laoghaire. These streets included George's Street Lower and parts of Convent Road, Sussex Street and Myrtle Square. With businesses reopening after the easing of public health restrictions, the Council wanted to assist local businesses as they reopened and reestablished their operations. The Council also wished to create a safe and welcoming environment for locals and visitors, with more space to move around, to shop, and to socialise. This was also aimed at supporting the local economy and society over the busy Summer period. Between June and July 2021, Lower George's Street had a 13% increase in footfall. This highlights the increase in movements from 239,952 in June to 277,341 in July, on the street. Extensive monitoring, including stakeholder engagement and surveys have been carried out to gauge feedback and the perception of the trial pedestrianisation of George's Street. Some of this monitoring will continue after the trial has been completed, including an evaluation report, that will help inform any future decisions on mobility and the public realm in Dún Laoghaire and across the County.	New








NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
T22	Cargo Bike Pilot Scheme	In the next 5 years	Infrastructure and Climate Change,	# of business participating in the pilot	 	In May 2021, dlr, Smart Sandyford and bike sharing operator Bleeper, launched a pilot project which aims to enable businesses based in the County to trial eCargo bikes, for the delivery of their products or services to clients. The project gives local businesses access to electric or eCargo bikes at a discounted rate, enabling them to replace delivery/ service trips which would otherwise have been taken by car or by van, with more sustainable means. The bikes have a cargo carrying capacity of 60kg, and have a battery which can last for up to 160km and can be fully recharged in 6 hours. The pilot scheme will run for an initial six month period.	New
T23	Inclusive Cycling for All Campaign	In the next 5 years	Infrastructure and Climate Change,	# of times bikes rented	 	In June 2021, the Council launched a new free inclusive bike rental scheme, that provides all abilities and ages the opportunity to, initially, take part in cycling along the Coastal Mobility Route (CMR) in Dún Laoghaire. This will extend to other accessible and suitable routes across the County, in due course. Following a collaboration with dlr Sports Partnership, the Bike Hub and Cycling Without Age, older adults and people with a disability can now book a range of inclusive bikes to cycle along the Coastal Mobility route. This new inclusive fleet includes two brand new electric Trishaws, which are designed to carry one or two people with a mobility issue at the front. This new inclusive bike fleet also includes a range of dlr Sports Partnership bikes (a tandem bike, handcycle and specialised trike) for hire by children or adults with a disability. The bikes are located at and hired from a new purpose built unit, located at Dún Laoghaire harbour, across from the existing R.N.L.I. shop, where they will be managed and rented out by the Bike Hub, which is a social enterprise focused on supporting the community in cycling-related activities.	New
T24	Disabled Accessible EV Parking & Charging Bay Pilot	In the next 5 years	Multi-departmental	# of parking bays installed	 	dlr's Public Lighting Section has increased the amount of self-charging parking bays across the County. Moving forward, dlr is conscious that disabled drivers are also starting to consider electric vehicles as a viable option. The new disabled pilot bay is located within Dún Laoghaire-Rathdown's carpark on the Sandyford Road, directly across the road from the Dundrum Town Centre. Designed to full accessible standards, the bay can be used by drivers when charging their Electric/Hybrid vehicle, who have displayed a valid disabled parking permit (the blue badge).	New
T25	To replace the diesel forklift at Ballyogan Recycling Park with an electric forklift	In the next 5 years	Infrastructure and Climate Change,	# of electric forklifts procured.		As the Council continues to upgrade its fleet, it is planned to replace the diesel forklift at Ballyogan Recycling Park with an electric forklift.	



FLOOD RESILIENCE

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	Progress report 2021	STATUS
ACTIONS CURRENTLY BUDGETED							
FLOOD RISK MANAGEMENT							
F1	Implement flood risk management guidelines	In the next 5 years	Multi-departmental	# of projects following guidelines		Flood Risk Management measures currently being designed in compliance with relevant national guidelines.	Ongoing
F2	Coordinate Emergency Response Plans incorporating climate change	In the next 5 years	Drainage, lead agencies, AGS, HSE	Quarterly meetings with neighbouring local authorities		Flood Emergency Plan is continually updated and exercises take place on a yearly basis when possible.	Ongoing
F3	Prepare and implement an integrated Coastal Zone Management Plan that addresses natural and cultural heritage and follows the Marine Spatial Planning Directive/ Framework	In the next 5 years	Parks	Coastline maintained, improvement in habitats		dlr's Biodiversity Officer has reviewed the Biosphere Conservation Action Plan and updated the dlr actions to be completed as part of the next Plan for 2021 - 2025. A dlr Coastal Defence Strategy Study was commissioned in 2010. This study is currently under review with a view to an update in 2022 and ongoing monitoring is taking place along sections of the coast.	Ongoing
F4	The Council and CARO will work with the Geological Survey of Ireland in the areas of urban geology and coastal vulnerability	In the next 5 years	CARO and Municipal Services	Working Group Established		Whilst a working group has not been formally established, there have been a number of engagements between the GSI and the CARO/the Council to ensure that each organisation has an appreciation of each other's work programme and to provide a collaborative environment for mutually beneficial projects.	Ongoing
F5	Implement coastal monitoring programme, map of vulnerable areas	In the next 5 years	Parks	Map produced		In 2021, a study was undertaken by CARO Atlantic Seaboard South to assess current and future coastal erosion challenges and requirements for Local Authorities. This study took its basis from the 2017 Fingal County Council's Coastal Policy and Practice Audit and expanded on the scope by considering further sources of information available since the document was published. The findings of the study concluded that Local Authority practitioners working in the coastal erosion area require greater supports in terms of practical guidance and training. To progress the findings of the study, CARO has developed a proposal for scoping and developing guidance and training requirements for Local Authorities in the area of coastal erosion. A National Working Group has been established with Local Authority personnel working in the area of coastal management. It is envisaged this scoping project will be completed in Q2 2022. Monitoring stations (fixed surveying points) were installed by dlr in 2016 at 21 separate locations between the Old Bray Landfill (just North of Bray Harbour) and Seafield. These stations are surveyed yearly and also after storm events. These sites are all currently on Council owned land. Subject to permission, it is planned to install monitoring stations on private lands in 2022. The installation of monitoring stations was one of the recommendations in the 2010 Coastal Strategy Study commissioned by dlr.	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
F6	Develop and implement a biosphere work programme within the County	In the next 5 years	Parks	Work programme developed and implemented		This action will be undertaken by the Dublin Bay Biosphere Partnership, which includes the three relevant Dublin local authorities and Dublin Port. An online e-zine is also in development.	Ongoing
F7	Develop a climate change impact GIS risk map with scenarios for the Dublin Region	In the next 5 years	Climate Ireland, Infrastructure and Climate Change multi-departmental	GIS map developed		The CAROs are currently working with Climate Ireland to develop a common methodology for local authorities to carry out semi-quantitative risk assessments, that will provide a key adaptation planning tool for the sector, as well as other sectors. The methodology will inform climate change adaptation planning based on current and projected future risks, and the effectiveness of adaptation strategies and actions in reducing climate impacts to acceptable levels. The risk assessment methodology will be trialled across the local authorities in the Atlantic Seaboard North region in Q3-2021 before being rolled out nationally in 2022.	Ongoing
F8	Develop template to capture impacts, response and costs (including ecosystem services/natural capital costs) for all major climate events	In the next 5 years	Infrastructure and Climate Change	Template developed and issued		The CARO has developed a mobile data collection App (named Wire App) for local authority staff to record the impacts of weather events. The online Map Viewer and Data Dashboard has spatial analysis and reporting functionality, to assist climate adaptation planning. The WIRE App was piloted in a number of local authorities in 2020/2021. A number of upgrades and modifications have been made to the system following the feedback from these pilots and to facilitate the rollout across the 31 local authorities. This upgrading work has now been completed and it is proposed to commence rolling out the system across the sector commencing in October the Atlantic Seaboard North Region, before being rolled out nationally through the 4 CAROs in 2022.	Ongoing
F9	Risk workshops to assess impacts on Council services	In the next 5 years	All departments	Risks identified		Ongoing Risk assessments take place in conjunction with the OPW. The SWAT team carry out dynamic risk assessments when Met Eireann and advise Weather warnings.	Ongoing
F10	Establish a Working Group to deal with the Issue of Pluvial Flood Risk. This shall include: <ul style="list-style-type: none"> • How to manage “urban creep” and the increase in impermeable surfaces • Promotion of SuDS early in design process • Development of pluvial flood forecasting through use of point rainfall forecasting • Interim use of DCC “FLAG” meetings as a model for DLAs in relation to pluvial flood forecasting and response 	In the next 5 years	Multi-departmental	Working group established		Group established within Drainage (ECFRAM Team). Part of their remit is to arrange for mapping of Pluvial Flood Risk Areas and liaise/source funding from the OPW.	Ongoing



FLOOD RESILIENCE




NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
F11	Update DLA urban drainage and flooding policies for current knowledge of flood risk and the latest best practice in drainage design promoting natural flood measures as a priority	In the next 5 years	Multi-departmental	Policies updated		Drainage Section have been updated all drainage and flooding policies as part of the preparation of the new County Development Plan.	Ongoing
F12	Communication and awareness campaigns on flood risk management and natural flood management measures to be included in CARO and local authority public awareness initiatives	In the next 5 years	Multi-departmental	# of campaigns delivered		CARO have worked with Dun Laoghaire Rathdown, the other three Dublin local authorities and Codema to deliver the first Dublin Climate Action Week in September 2021 which consisted of a range of over 75 on-line and in person events relating to the themes of the Climate Change Action Plans. This was linked to EU Sustainable Communities Day and the European Climate Pact to promote community action as a key event for Ireland. The CARO and Local Authorities are also partners in Phase 1 of a new the GAA Green Clubs programme involving 45 clubs nationwide including a GAA club in DLRCC. https://www.gaa.ie/my-gaa/community-and-health/green-clubs-sustainability/	Ongoing

FLOOD DEFENCE



The following flood storage actions will incorporate nature-based solutions and biodiversity enhancement measures where possible:

F13	Cabinteely Park flood storage	In the next 5 years	Water and Drainage, Parks	Project at feasibility stage		This scheme is now part of an overall catchment project. The Carrickmines Shanganagh Flood Risk Project commenced in Q4 2020, following the appointment of Engineering and Environmental Consultants.	Ongoing
F14	Fernhill Park flood storage feasibility study	In the next 5 years	Water and Drainage, Parks	Project at feasibility stage		This scheme is now part of an overall catchment project. The Carrickmines Shanganagh Flood Risk Project commenced in Q4 2020, following the appointment of Engineering and Environmental Consultants.	Ongoing
F15	Kilbogget Park flood storage	In the next 5 years	Water and Drainage, Parks	Project completed		Kilbogget Park Flood Storage project was substantially completed in May 2021. Minor snagging work are nearing completion. The completed structure now assists greatly in managing flood risk downstream and is a vital component in the Council's adaption to the risks posed by climate change.	
F16	Installation of screen monitoring cameras	In the next 5 years	Water and Drainage, Parks	Project completed		The installation of screen monitoring cameras is ongoing across the County.	
F17	Glenavon Park flood storage and integrated wetland	In the next 5 years	Water and Drainage, Parks	Project completed		This project is now part of the Deansgrange Stream Flood Relief Project which commenced in December 2019.	






NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
F18	Marlay Park enhanced flood storage	In the next 5 years	Water and Drainage, Parks	Project completed		This project is undergoing further evaluation.	Not started
F19	Sandyford Park flood storage	In the next 5 years	Water and Drainage, Parks	Project completed		This project has not commenced to date and requires further technical evaluation in partnership with the Office of Public Works (OPW),	Not started
F20	Corbawn coastal protection works	In the next 5 years	Roads Maintenance	Project completed		Corbawn coastal protection works were completed in Q2 2019.	Complete

ACTIONS AWAITING BUDGET

F21	Promote and encourage community involvement in the retrofit of SuDS in existing developments	To be decided	Parks, Water and Drainage	# of communities involved	 	The integration of SuDS measures into developments is undertaken by way of the Development Management and Forward Planning functions of the Council.	Ongoing
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NEW ACTIONS


F22	Bray Landfill Coastal Protection Project	In the next 5 years	Water and Drainage, Parks	Project completed		Work has commenced on the Bray Landfill Coastal Protection Project and involves the stabilisation and protection of approximately 300m of cliff frontage. The purpose of the proposed works is to address the ongoing issue of erosion of landfill waste material from a cliff-face and depositing onto the beach in front. This will be addressed through the installation of coastal defences. The work includes the installation of rock armour and coastal protection along the cliff face and on the beach. The rock is being imported from local building sites in Killiney and surrounding area. An ecologist is on site advising on Wildlife and Habitats. Access paths will be provided along the new embankment with access to the beach front.	New
F23	Linte na Farraige - Creative Climate Action	In the next 5 years	Infrastructure and Climate Change	# of LED installations produced	 	dlr is a partner in the Linte na Farraige project. This will result in a set of striking visual light installations designed by Finnish artists, that will be placed across six Irish coastal sites in Dublin, Wexford and Galway. The installations are to be comprised of illuminated horizontal lines that represent future sea levels and storm surges. This project is funded by the Government's Creative Climate Action programme, which forms part of the national Climate Action Fund.	New



FLOOD RESILIENCE

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
F24	H2020 SCORE Project	In the next 5 years	IT - Information Technology	# of projects actions and deliverables completed		<p>The intensification of extreme weather events, coastal erosion and sea-level rise are major challenges to be urgently addressed by European coastal cities. The science behind these disruptive phenomena is complex, and advancing climate resilience requires progress in data acquisition, forecasting, and understanding of the potential risks and impacts for real-scenario interventions. The Ecosystem-Based Approach (EBA) supported by smart technologies has potential to increase climate resilience of European coastal cities; however, it is not yet adequately understood and coordinated at European level. SCORE outlines a co-creation strategy, developed via a network of 10 coastal city 'living labs' (CCLs), to rapidly, equitably and sustainably enhance coastal city climate resilience through EBAs and sophisticated digital technologies. SCORE will establish an integrated coastal zone management framework for strengthening EBA and smart coastal city policies, creating European leadership in coastal city climate change adaptation in line with The Paris Agreement.</p>	New










NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
F25	H2020 PRECINCT Project	In the next 5 years	IT - Information Technology	# of project actions and deliverables completed		<p>EU Critical Infrastructures (CIs) are increasingly at risk from cyber-physical attacks and natural hazards. Research and emerging solutions focus on the protection of individual CIs, however, the interrelationships between CIs has become more complex, for example, in smart cities and managing the impacts of cascading effects and enabling rapid recovery is becoming more pertinent and highly challenging. PRECINCT (Preparedness and Resilience Enforcement for Critical Infrastructure Cascading Cyberphysical Threats and effects with focus on district or regional protection) aims to connect private and public CI stakeholders in a geographical area to a common management approach, which will yield a protected territory for citizens and infrastructures.</p>	New



NATURE-BASED SOLUTIONS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
ACTIONS CURRENTLY BUDGETED							
OPERATIONS							
N1	Establish regional working group on nature-based solutions	In the next 5 years	Parks & Biodiversity	Working group established		This can be facilitated by existing working group of Senior Parks Superintendents of the four Dublin local authorities. There is also scope to involve third level institutions.	Ongoing
N2	Agree joint action plans to protect habitats and species native to the County	In the next 5 years	Parks & Biodiversity	Action plans agreed and implemented		The four Dublin local authorities have commenced discussions on developing a methodology approach to this action. This action should also be undertaken at national and regional level, in partnership with relevant stakeholders such as National Parks & Wildlife Service (NPWS). Additional national and regional level input has been sought in the development of this action.	Not started
N3	Establish interdepartmental working group with engineers and planners	In the next 5 years	Parks & Biodiversity	Working group established		This is currently facilitated by way of development and delivery of projects including Part 8 schemes etc. This is also being facilitated by way of the preparation of the Draft County Development Plan, which has shared input across Council departments.	Ongoing
N4	Workshop on NBS, green infrastructure and Sustainable urban Drainage Systems (SuDS)	In the next 5 years	Parks & Biodiversity	Workshop undertaken, report of outcomes		A workshop was planned by Biodiversity Officer for 2020, on introducing the main principles for implementing NBS in Flooding and Best Practice. This has been postponed due to the COVID-19 pandemic and has now been planned for 2022 onwards. An online workshop is currently being considered in partnership with the Dublin CARO and UCD.	Post-poned
N5	Produce regional floodplain management guidelines - use Santry River as demonstration	In the next 5 years	Parks & Biodiversity	Guidelines produced		The intent of the action is currently addressed by way of the SuDs Manual by Ciria, with regard to planning for future development.	Complete
N6	Undertake a feasibility study to develop an ecosystems audit template	2021	Parks & Biodiversity	Template produced		The Council's Biodiversity Officer has partnered with the Eastern and Midlands Regional Authority and obtained EU Funding for a PROGRESS Pilot Project - Green Infrastructure Decision Support for Ecosystem Services 2021. An initial audit exercise has been undertaken.	Ongoing
N7	Assessment of the impact of climate change on biodiversity and ecosystem services	2019	Parks & Biodiversity, Drainage	Report and recommendations		This action will be developed in conjunction with the implementation of Biodiversity Climate Change Sectoral Adaptation Plan, which includes actions related to local authorities. There is also scope to involve other stakeholders such as third level institutions, Dublin CARO and Environmental Protection Agency (EPA). It has been planned for 2022 onward.	Not started










NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
GREEN INFRASTRUCTURE							
N8	Develop and implement pollinator support actions	In the next 5 years	Parks & Biodiversity	Strategy completed		A number of actions have been completed in 2020 and 2021 including: bumblebee monitoring workshops and talks, pollinator conference presentations, pollinator areas created by Parks, Fernhill Park conservation grazing, reduction in chemicals use for weed control, dlr Slow to Mow campaign, sharing of information with the National Biodiversity Database Centre, Biodiversity Officer is on the All-Ireland Pollinator Plan Steering Group, dlr is also a partner of the All-Ireland Pollinator Plan. The Council's Wildlife Corridor Plan also incorporates pollinators.	Ongoing
N9	Create region-wide map of green networks to support walking and cycling	In the next 5 years	Parks, Traffic	Map produced		As part of its Active School Travel initiative launched in August 2020, the Council produced a web-map showing the location of all existing cycle routes in the County, including those in parks / greenways i.e. Blackrock Park, Kilbogget parks interventions. This map will continue to be developed as the cycle network is enhanced across the County, in partnership with the National Transport Authority (NTA) and other relevant stakeholders.	Ongoing
N10	Implement Public Open Space and Parks Strategy	In the next 5 years	Parks	Strategy produced		This is undertaken by way of the Development Management process and the assessment of planning applications with regard to open space standards etc. This also relates to the review and implementation of the Council's Green Infrastructure Strategy and Play Policy.	Ongoing
N11	Incorporate natural play space into existing parks	In the next 5 years	Parks	# of spaces incorporated		This has been undertaken at Clonkeen Park and Fernhill Park, where local children were involved in the design process of play spaces, including a BMX area. This will also be included in the preparation of the new Blackrock Park Masterplan. The incorporation of natural play space into parks is also addressed in the new Draft County Development Plan.	Ongoing
TREE MANAGEMENT							
N12	Implement <i>dlr TREES 2011-2015</i> strategy by producing a map of trees in the County	In the next 5 years	Parks	Online map of trees and plants		The updating of existing tree symbols across the County was completed as part of the new Draft County Development Plan. These trees relate to zoning objective 'To protect and preserve trees and woodlands'. A new strategy for 2021 will be drafted and made available by the end of Q4 2021.	Ongoing
N13	Develop Dublin tree and plant guide	In the next 5 years	Parks	Completion of tree and plant guide		In October 2021, the Parks department launched a new Tree Tag project at Fernhill Park. It will facilitate the opportunity to run tree hunts for the public. Further development of this initiative can involve local community volunteers, schools and the education sector.	Post-poned
N14	Update <i>dlr TREES 2011-2015</i> strategy	In the next 5 years	Parks	# and variety of trees planted or removed per annum		A new Tree & Urban Forestry Strategy (2021-31) has been prepared and it is anticipated that the Draft Strategy will be adopted in 2022.	Ongoing








NATURE-BASED SOLUTIONS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
N15	Promote the Heritage Tree Hunt	In the next 5 years	Parks	# of site visits		In October 2021, the Council's Parks department launched a new Tree Tag project at Fernhill Park. It will facilitate the opportunity to run tree hunts for the public. Further development of this initiative can involve local community volunteers, schools and the education sector.	Ongoing
CONSERVATION AND PRESERVATION							
N16	Complete and climate proof <i>Biodiversity Action Plan, Invasive Alien Species Plan, and dlr TREES 2011-2015 strategy</i>	In the next 5 years	Parks & Biodiversity	Plans completed		The Council's Invasive Species Action (IAS) Plan was completed in 2021. IAS actions have commenced e.g. Carrickmines River Catchment treatment of Giant Hogweed 2021, Dodder River Catchment treatment of Japanese Knotweed 2021 etc. The Council's Draft Biodiversity Action Plan underwent public consultation in Q3 and is expected to be approved by the Council in Q4 2021.	Ongoing
N17	Review <i>Dublin Bay Biosphere Plan</i> and identify areas vulnerable to climate change	In the next 5 years	Parks, Planning	Map of vulnerable areas and species' habitats, # of hectares protected		The Dublin Bay Biosphere Partners and CARO are currently looking to secure funding for marine ecosystem restoration projects in the face of climate change pressures.	Not started
N18	Coordinate action on biodiversity across the four Dublin Local Authorities	In the next 5 years	Parks & Biodiversity	Working group established		There are a number of ongoing actions in this area: Brent Geese Tagging Project by FCC, dlr and DCC in progress 2018 - 2021. Otter Survey Project dlr and DCC (dlr planned for completion in Q4 2020). Seal Tagging Biosphere and LA's Project planned for 2020 postponed is due to COVID-19 pandemic and will be undertaken in 2022.	Ongoing
N19	Protect and conserve floodplains, wetlands, and coastal areas subject to flooding	In the next 5 years	Parks	Map of areas to be protected		The Council has completed the flood alleviation measures at Kilbogget Park, as part of the Loughlinstown Flood Relief Scheme. This project was funded by the OPW and the scheme protects over 250 homes. Flood alleviation measures continue to be considered as part of Council projects as required and are undertaken on a cross-departmental basis.	Ongoing
N20	Promote the natural, historical and amenity value of watercourses while maximising flood protection	In the next 5 years	Parks	Map of areas to be protected		The natural, historical and amenity value of watercourses is considered as part of the implementation of the Catchment Flood Risk Assessment and Management (CFRAM) Programme (CFRAMS) on an ongoing basis, including for example the Dargle River. This is undertaken on a cross-departmental basis.	Ongoing
N21	Launch awareness campaign to build awareness of native species	In the next 5 years	Parks & Biodiversity	Campaign launched, # of citizens participating in campaign activities		Due to Covid-19 in Q1 and Q2 of 2021 awareness raising was undertaken online with a number of events regarding native species such as a Tern talk, Marine species talk, Bat talk, Hedgehog talk and Badger talk and in Q3 a bird walk and talk.	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
N22	Bee Friendly Estates - promote planting of pro-pollinator flora	In the next 5 years	Parks, Environment	Increase in bee population	 	The Council continues to promote the Slow to Mow Campaign in 2021. The dlr Biodiversity Officer presented on the use of Local soil – Local Seed to encourage the development of native pollinator areas and discourage the use of seed packets at the All Ireland Pollinator Plan Webinar for Councils. The Biodiversity Officer also provided input to the Biodiversity Champions Estate Management Programme 2021, regarding pollinators and also gave a presentation to the group.	Ongoing
N23	Update hedgerow study	In the next 5 years	Parks & Biodiversity	2007 hedgerow study updated		A review of the Hedgerow surveys 2008 was completed in Q4 2020 with an added assessment of how to apply ecosystem scoring to hedgerows. This is the first application of ESS to hedgerows in Ireland. A survey of the Townland Boundary Hedgerows for the County has been undertaken in 2021 and report due Q4 2021. Further surveys will be completed in 2022.	Ongoing
N24	Development of community garden at Fernhill Park	In the next 5 years	Parks	# of citizens using community garden, # of food produced on-site	 	At Fernhill Park, a community garden model has been agreed and it is anticipated this will commence development in Q1 2022. This included participation from a local Scouts group.	Ongoing
N25	Deliver green roofs on civic buildings	In the next 5 years	Architects	# of Council buildings with green roofs	 	The Council's Architects department continues to promote the inclusion of green roofs in civic buildings and social housing developments. This includes the current social housing proposals at St. Laurence's, Stillorgan and Moyola Court, Churchtown. This is also now part of the Draft County Development Plan	Ongoing

ACTIONS AWAITING BUDGET












N26	Develop demonstration sites to show how to combine nature conservation with existing land uses	In the next 5 years	Parks & Biodiversity	Demonstration sites implemented	  	An example of a demonstration site that combines nature conservation with land use is the Conservation Grazing at Fernhill. This project was commissioned by dlr's Biodiversity Officer with the help of the Droimeann Society and dlr Parks Staff, to manage the old meadows at Fernhill. Rare breed Droimeann graze the meadows located in Fernhill Park during the winter, to allow the meadow to flourish for pollinators, birds and mammals during the summer. This type of low intensity grazing also helps combat climate change, avoiding the need for regular mowing by machinery, avoiding the need for chemical application and encouraging greater biodiversity. The Droimeann have also become an attraction for visitors to Fernhill Park. A pilot seed harvesting project was completed in Q3 2021 in the Fernhill meadows and this seed will be used for other appropriate areas, providing a more sustainable way of developing local pollinator sites.	Ongoing
N27	Produce A Guide to Sustainable Living in County Dublin	In the next 5 years	Parks, Environment	Guide produced	 	This action will be developed in partnership with the other Dublin local authorities and other stakeholders as relevant. dlr continues to use Fernhill Park as a showcase for sustainability. It is intended to trial composting toikets in Q1 2022.	Not started



NATURE-BASED SOLUTIONS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
N28	Identify further sites suitable for community gardens for local food production	In the next 5 years	Parks	Number of sites across County		Potential sites for community gardens are currently being considered in association with Men's Shed groups in Blackrock and Meadowbrook. There is also potential for a site within Cabinteely walled garden.	Ongoing
N29	Sustainable gardening workshops	In the next 5 years	Parks, Environment	# of workshops held, # of attendees		Due to the COVID-19 pandemic, promotion has been primarily online. The Council continues to promote its 'Slow to Mow' campaign, including an online brochure, to encourage native wildflowers back into the grass habitat.	Ongoing
N30	Support local communities through Lifelong Biodiversity Education	In the next 5 years	Parks, Biodiversity, Communications	# of participants, yearly reports		Biodiversity events were held on a monthly basis in 2021, and also during Biodiversity Week and Heritage Week 2021.	Ongoing
N31	Assess benefit of increasing buffer distance of 10m from water courses to distances of 20m, 50m and 100m, in order to protect biodiversity and provide greater flood attenuation	In the next 5 years	Parks & Biodiversity	Comprehensive assessment completed		Setback from watercourses is addressed in Policy Objective GIB 24 of the new Draft County Development Plan, which states 'It is a Policy objective to maintain and protect the natural character and ecological value of the river and stream corridors in the County and where possible to enhance existing channels and to encourage diversity of habitat and nature-based solutions that incorporate biodiversity features'. The Draft Plan also states that 'Development proposals in riparian corridors will be considered providing, where practicable, they: dedicate a minimum of 10 m each side of the water's edge for amenity and biodiversity and up to 30 m for areas where the ecosystem functioning of the catchment requires it, (where practicable). The Council will take cognisance of the Southern Regional Fisheries Board (SRFB), 'Planning for Watercourses in the Urban Environment'. Any works which will impact on a watercourse must adhere to best practice guidelines as outlined in the Inland Fisheries 'Guidelines on protection of fisheries during construction works in and adjacent to waters'.	Not started
N32	Establish a grant scheme to landowners of riparian habitat for the planting of trees and enhancement of riparian habitats to increase resilience to climate change	In the next 5 years	Biodiversity, Parks, Environment, Water and Drainage	# of hectares planted and enhanced		There are existing funding sources available for such works to be undertaken, including Local Agenda 21, Water Framework Directive Community Water Development Fund etc. Further consideration of this action should have regard to existing / future funding sources and supports from other external stakeholders.	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
N33	Tree planting in areas identified for climate change resilience	In the next 5 years	Biodiversity, Parks, Water, Drainage	# of hectares planted	 	In March 2020, the Council launched its Future Woodlands Model at Fernhill, as part of National Tree Week 2020. This involves planting a 1-hectare woodland at the park. The aim is to measure the woodland its climate mitigation benefits and forecast for the trees increased benefits for future generations. The Council's Parks Section applied for Government funding for woodland planting on public lands in 2020/2021.	Post-poned
N34	Pilot Demonstrator Projects for Rain Gardens and Blue-Green Streets – new builds and retrofitting	In the next 5 years	Parks and Landscape Services, Drainage, Roads Maintenance	Successful pilot trials (vegetation establishment, civic engagement, water quality, stormwater mitigation)	  	The implementation of this action can be considered as part Forward Planning and Development Management processes, in the context of addressing climate adaptation. This can address both public and private sector projects and proposed developments in the future.	Not started
N35	Map dlr wildlife corridors across the County and evaluate their ecosystem services including climate change resilience and how this can be protected and enhanced	In the next 5 years	Biodiversity, Parks, Environment	Map produced	 	A review of the Hedgerow Surveys 2008 was completed in Q4 2020, with an added assessment of how to apply ecosystem scoring to hedgerows. This is the first application of ESS to hedgerows in Ireland. A survey of the Townland Boundary Hedgerows for the County has been undertaken in 2021, with an associated report due Q4 2021. Further surveys will be completed in 2022.	Ongoing
N36	Improve climate change resilience across DLR by changing our landscape management of green infrastructure including green spaces, roadside verges and streamsides to create nature wildlife and pollinator areas within DLR. Extend our Slow to Mow campaign to reach all parts of the County	In the next 5 years	Biodiversity, Parks, Environment	Management plan produced. Slow to Mow extended	 	The Council has adopted an ethos of not using herbicides or sprays in landscape management of green infrastructure across the County. This has been undertaken successfully at a range of sites including at Cabinteely and at cemeteries. It is now part of current Parks policy and the department annual maintenance programme.	Ongoing
N37	Increase awareness of the benefits of biodiversity and ecosystem services to climate change resilience	In the next 5 years	Biodiversity, Parks, Environment	# of citizens reached	 	The Council's website hosts a Natural Capital and Ecosystem Services page. In 2019, the Council produced an animation video titled dlr Biodiversity and Ecosystems, explaining the wide ranging benefits of biodiversity and ecosystem services.	Ongoing



NATURE-BASED SOLUTIONS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
NEW ACTIONS							
N38	Myrtle Square & Convent Lane Project	In the next 5 years	Biodiversity, Parks, Environment	Project Completed	 	<p>Myrtle Square will be a new public space in the heart of Dún Laoghaire town. It will provide a destination point and an attractive space for locals and visitors to linger, relax, play and enjoy. The square sits in a new location created as a result of the careful dismantling of the block containing numbers 35-37 Lower George's Street. The completed, permanent scheme will be characterised by nature and greening. A new grove of trees, groundcover and climbing plants will establish a calm, pleasant location. The space will feature a canopy structure, generous public seating and a bespoke multi-tiered play unit. Suds (sustainable urban drainage system) is to be utilised in the scheme. This is a method of absorbing rainwater run-off into the planted areas in a more natural way. The greener habitat will help to encourage biodiversity and nature into the heart of the town. Myrtle Square also formed part of the Council's Summer Streets initiative, which aimed to provide spaces for cafés, restaurants, pubs and other businesses to operate outdoors throughout the summer period.</p>	New



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
N39	Blackthorn Park	In the next 5 years	Biodiversity, Parks, Environment	Project Completed	 	<p>In 2021, the Council completed a new public park on a former brownfield site along the Drummartin Link Road, Sandyford Business Park, Dublin 18.</p> <p>The main features of this park are:</p> <ul style="list-style-type: none"> • Transforming a brownfield site to a publicly accessible park; introducing natural mounds and extensive native Irish woodland planting with natural habitats and improve the carbon footprint of the environs. • The provision of a generous park with new entrances, tree planting, playground, seating, new boundary treatment and wide paths throughout the park for the benefit of dlr. • Provide a large, accessible playground that includes natural play to meet the needs of local residents. • Improved pitch facilities. • Improved public open space facilities within the area and improved pedestrian linkages. 	New



RESOURCE MANAGEMENT














NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
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ACTIONS CURRENTLY BUDGETED

WASTE MANAGEMENT









R1	Monitor and enforce waste regulation	In the next 5 years	WERLA and Enforcement	Environmental Performance Assessment from EPA		dlr continues to reach its targets for enforcement and implement its Recommended Minimum Criteria for Environmental Inspections Plan, working with the Waste Enforcement Regional Lead Authority (WERLA), Environmental Protection Agency (EPA), Trans-Frontier Office and other local authorities.	Ongoing
R2	Assess waste in Council-owned and operated buildings and plan actions to be taken	In the next 5 years	Facilities Management	Report outlining current situation and plan of action to be taken		With the impact of Covid-19, many staff worked remotely and waste management in corporate buildings was greatly reduced as a result of this. New tenders for facilities management were issued this year with increased requirements for the management of waste in these buildings.	Ongoing
R3	Run staff recycling awareness campaign	In the next 5 years	Facilities Management, Corporate Services, Infrastructure and Climate Change	# of campaigns held		With Covid-19 and most staff working remotely, no further campaigns took place this year. Public recycling bins were piloted this year at a number of locations in the County.	Ongoing
R4	Identify neighbourhoods/ areas in region in need of bring banks	In the next 5 years	Infrastructure and Climate Change	# of areas identified, # of new bring banks established		The Draft County Development Plan seeks to provide for civic amenity facilities and bring centres as part of an integrated waste collection system in accessible locations throughout the County and promote the importance of kerbside source segregated collection of household and commercial waste as the best method to ensure the quality of waste presented for recycling is preserved.	Ongoing
R5	Participate in the Local Authority Prevention Network	In the next 5 years	Infrastructure and Climate Change	# of grants for waste-related projects		dlr continues to participate in the Local Authority Prevention Network of local authorities and submits projects for funding annually.	Ongoing
R6	Collaborate with the EPA's national waste prevention programmes	In the next 5 years	Infrastructure and Climate Change	# of people engaged		Food waste education was included in the environmental awareness campaign programme for 2021. A 'Seven Secrets to Stop Festive Food Waste' campaign ran over the Christmas period, in collaboration with nine other local authorities and the EPA. A second environmental awareness food waste campaign focusing on barbecues took place in Summer 2021. The campaign had a total reach of 63,299 and 11,333 views on dlr's social media.	Ongoing








NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
R7	Continue environmental awareness campaigns to support the public in their efforts to prevent waste	In the next 5 years	Infrastructure and Climate Change	# of campaigns held	 	Environmental Awareness programmes and campaigns in 2021 included Green-Schools, free public seminars on bike repair, furniture upcycling and clothes repair, Relove Fashion, Picker Pals, Newsletters, Tidy Districts, Community Clean-up Scheme, Recycled Christmas Decoration Competition, Halloween Campaign, A Recycled Christmas Garden at Dundrum Library, Less Waste for Christmas Campaign, Stop Food Waste Christmas Campaign, Stop Food Waste Summer Campaign, Conscious Cup Campaign, Recycling Bin promotion, Anti-Litter Children's Poster Competition, Environment and Climate Action Grant for Communities, Anti-Litter Anti-Graffiti Grant Scheme, Community Environment Action Fund, Plastic Free July 2021, Free Hazardous Waste Collection, installation and promotion of Bike Reuse at Ballyogan CA (Bikes for Africa programme) and Free Mattress Collection.	Ongoing
R8	Promote Reuse Month annually	In the next 5 years	Infrastructure and Climate Change	# of Council run events	 	Reuse Month and the National Upcycle competition are promoted annually.	Ongoing
R9	Promote and support Circular Economy Initiatives	In the next 5 years	Infrastructure and Climate Change	# of initiatives supported	 	The Council continued to support the implementation of the Government's Waste Action Plan for a Circular Economy 2020 at a local level, with activities such as the Relove Fashion Competition, the annual Christmas tree recycling campaign and collaborating with the Regional Waste Management Planning Office and the Local Enterprise Office to facilitate Circular Economy training for the business community.	Ongoing
R10	Use €coMerit programme to advise businesses on how to become resource efficient	In the next 5 years	Infrastructure and Climate Change	# of businesses participating	 	dlr continues to promote and support the roll out of the €coMerit Programme to businesses to enable them to become more resource efficient and to reduce the carbon footprint of their operations in the County. The Beacon Hospital was awarded €coMerit certification in October 2021. Furthermore, the Local Enterprise Office (LEO) runs a number of initiatives including Green for Micro, Green start, and Green Plus.	Ongoing
R11	Promote and encourage resource management in schools	In the next 5 years	Infrastructure and Climate Change	Continued participation of schools in conference workshops	 	Resource efficiency actively encouraged and promoted in local schools by dlr. The Council's environmental awareness school programmes include Leave No Trace Talks, Tidy Schools, Green-Schools, Relove Fashion, Picker Pals and projects funded under the Community Environment Action Fund.	Ongoing
R12	Encourage and support schools in implementing the Green-Schools environmental programme	In the next 5 years	Infrastructure and Climate Change	# of schools participating	 	Green-Schools is managed locally by dlr, in association with An Taisce. 20 Green School flags awarded for 2021, including two schools receiving their first flag.	Ongoing
R13	Work in partnership with resident/ community groups in climate-related programmes	In the next 5 years	Infrastructure and Climate Change	# community groups		The Environmental and Climate Action Grant funded thirty-six community based environmental projects in 2021.	Ongoing



RESOURCE MANAGEMENT






NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
LITTER & RECYCLING IN THE PUBLIC REALM							
R14	Run anti-dumping and anti-litter campaigns using SBIR challenges	In the next 5 years	Smart Dublin, Infrastructure and Climate Change	# of campaigns, # of people reached	 	Hazardous waste, bikes for Africa and mattress amnesty were held in Q3 2021. The Enterprise Ireland SBIR Challenge has not yet resumed. The Council will continue to liaise with Enterprise Ireland on the progress of this initiative.	Ongoing
R15	Implement anti-dumping and anti-litter initiatives	In the next 5 years	Infrastructure and Climate Change	# of campaigns, # of people reached		The Mattress Amnesty Day and Household Hazardous Waste Collection are held annually. In September 2021, 1,423 mattresses and 14 tonnes of hazardous waste were collected at these free events. The Council has also commenced lawnmower and bicycle Re-Use Schemes at Ballyogan Recycling Park.	Ongoing
R16	Support community anti-litter actions, including actions at the seashore	In the next 5 years	Infrastructure and Climate Change	# of days held, # of participants		The dlr Community Clean-up scheme supports voluntary groups wishing to organise a litter pick in their local area by providing a kit (bags, pickers and gloves) and collecting the litter bags after the event. The scheme is available to community groups, estate management groups, residents' associations, tidy towns, tidy district groups and schools. This dlr Community Clean-up scheme is open all year. In 2021, this scheme also supported and facilitated National Spring Clean and the Dublin Community Clean-up 2021.	Ongoing
R17	Introduce leaf composting programme	In the next 5 years	Infrastructure and Climate Change	# of residents' associations participating	 	The Council's Cleansing & Parks sections are working in collaboration on the introduction of a leaf composting programme. The sections are initially engaging with local community groups and other local authorities who have carried out similar initiatives to scope the requirements for trial locations with a view to introducing a wider programme on the basis of the outcomes of the trials.	Ongoing
R18	Support and encourage community engagement in local litter issues	In the next 5 years	Infrastructure and Climate Change	# of initiatives supported annually by Council	 	The dlr Community Clean-up scheme supports voluntary groups wishing to organise a litter pick in their local area by providing a kit (bags, pickers and gloves) and collecting the litter bags after the event. The scheme is available to community groups, estate management groups, residents' associations, tidy towns, tidy district groups and schools. This dlr Community Clean-up scheme is open all year. In 2021 this scheme also supported and facilitated National Spring Clean and the Dublin Community Clean-up 2021.	Ongoing







NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
R19	Monitoring of Big Belly Bins in County	In the next 5 years	Cleansing	Reduced energy consumption of fleet, # of bins in County	 	<p>The Council's Big Belly bins are monitored on a daily basis through a combination of visual inspection, emptying, cleaning and maintenance/replacement of parts, as necessary to ensure serviceability. This physical monitoring is carried out by the Cleansing crews and Foremen managing the bin service and supported by the cleansing management team. All Big Belly bins are also recorded on the bespoke application "Clean" for remote monitoring purposes. This application is utilised by cleansing crews, foremen and management to optimise the collection service and includes mapping, emptying/service history, repair alerts, up to date data on percentage fullness, collection history and more. The combination of physical and remote monitoring enables dlr to provide a highly efficient and flexible service, capable of coping with the changing demands on bin services.. The bin service is reviewed on an annual basis with the focus of making best use of existing stock, to address high pressure areas in the control of street litter. The street bin service experienced significant expansion in 2021 through the allocation of additional funding via both the local authority and the Department of the Environment, Communications and Climate Change, to counteract the increased demands of an outdoor summer, thereby enabling the purchase of an additional 60 compacting Big Belly bins, as well as 12 Big Belly "Pizza bins" and a recycling trial at 17 strategically selected locations across the county.</p>	Ongoing
R20	Collaboration with Refill.ie to reduce single use drinking water bottles	In the next 5 years	Infrastructure and Climate Change	Feasibility assessed	 	A new Refill Station has been installed in Dun Laoghaire. dlr libraries are also in the process of installing four new refill stations.	Ongoing
R21	Climate-related evaluation criteria in all DLRCC tenders. Use the EPA Green Procurement Guidance for the Public Sector to support sustainable procurement procedures	In the next 5 years	Corporate Services	Criteria developed and implemented		CARO in conjunction with a range of partners, is working to devise a training programme on green public procurement for the local authority sector to operationalise the recently published EPA 'Green Public Procurement Guidance for the Public Sector'. CARO established the Local Authority Green Public Procurement Training steering group in 2021, to ensure a collaborative agreement by key stakeholders on course content and its emphasis, timeframe for delivery, maximising training uptake and maximising effectiveness in building the capacity of local authority staff, budget holders and procurement specialists in integrating climate change considerations into their work. Commencement of training across the local authority sector is expected in Q1 of 2022, under the management of the Local Authority Services National Training Group (LASNTG).	Not Started



RESOURCE MANAGEMENT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
PROCUREMENT							
R22	Expand housing assistance programme to include tenant waste and water awareness	In the next 5 years	Housing, Infrastructure and Climate Change	Programme developed	 	The current dlr Tenants Awareness Handbook (Section 8 - Environmental Issues and Saving Energy in the Home) addresses a range of environmental issues, including water and waste management and awareness. An update on climate action for inclusion in the Local Authority Tenants Handbook is currently being prepared by the CAROs. The draft document is currently under review on foot of feedback received from the Local Authority National Climate Action Steering Group. Once the review has been completed and final approval has been received, the document will be made available to Local Authorities.	Ongoing
ACTIONS AWAITING BUDGET							
R23	Waste management guidelines developed for developers of new housing schemes	In the next 5 years	Housing, Infrastructure and Climate Change	Guidelines are developed and signed off on		Waste management guidelines were developed for developers of new housing schemes and they are now available on the dlr website.	Ongoing
NEW ACTIONS							
R24	Pizza Box Bin Trial	In the next 5 years	Housing, Infrastructure and Climate Change	# of pizza boxes collected		This initiative was one of the Council's first dlrBETA projects. These new public bins accept pizza boxes and were trialed in Blackrock and Dalkey. It is intended to expand this project in 2022. The dlrBETA project aims to engage with the citizens of Dún Laoghaire-Rathdown and to assess submissions from the public on ideas that they have for small scale improvements to the public realm.	New
R25	Plastic Raiders Project	In the next 5 years	Infrastructure and Climate Change			dlr is supporting University College Dublin in the implementation of this Science Foundation Ireland funded project. The Plastic Raider project combines remote sensing technologies and bottom-up citizen science to create sustainable, intergenerational change in polluting and environmental activism behaviours. The project enables citizens to act on climate change and sustainable development. The key societal impacts of the citizen science activities will be to raise awareness, engage and empower citizens and consumers with concrete tools to monitor their impacts on the environment. The Council is working with UCD to select a site and work with local vendors on the tracking of plastic products using sensors and the OpenLitterMap app.	New



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2021	STATUS
R26	On-street Recycling Bin Trial	In the next 5 years	Municipal Services	# of recycling bins installed		As part of this trial, the Council installed over twenty-five new bins, in busy areas throughout the County, including Dún Laoghaire, Dundrum, Monkstown, Cabinteely, Ballinteer and Blackrock. The distinctive green bins accepted plastic bottles and aluminium cans.	New
R27	Anti-Litter/Dog Fouling Poster Competition	In the next 5 years	Infrastructure and Climate Change	# of entries received		In 2021, dlr undertook a new Anti-Litter/Dog Fouling Poster Competition. The Anti-Litter/Dog Fouling Poster Competition was open to all primary schools within Dún Laoghaire-Rathdown. Over 100 entries were received and the six winning posters will be used within the Environmental Awareness Section, to raise awareness regarding anti-litter and dog fouling throughout the County.	New
R28	Take Me Home Anti-Litter Campaign	In the next 5 years	Infrastructure and Climate Change	# of campaigns, # of people reached		In Summer 2021, dlr launched its Take Me Home anti-litter campaign which was advertised on big belly bins and in various locations around the County. The campaign encouraged people to dispose of their litter responsibly and to keep the County's beauty spots and county clean. The campaign asked the public to take their rubbish to the nearest bin, or to take it home and dispose of it responsibly if one cannot be found nearby.	New
R29	Love Your Place, Leave No Trace	In the next 5 years	Infrastructure and Climate Change	# of campaigns, # of people reached		In Q2 2021, dlr launched its local Love Your Place, Leave No Trace campaign, which is part of a national Government led initiative. The Council put in place large wheelie bins at key locations along the coastal route in particular, and in coastal towns of Blackrock and Dún Laoghaire. In addition, 40 additional smart bins and 18 recycling bins were installed across the County. Dún Laoghaire Harbour also put in place extra wheelie bins and installed four new solar compactor bins.	New

CONCLUSION

Dún Laoghaire Rathdown County Council continues to main-stream its efforts and collaborate across departments, to achieve energy efficiency, reduce emissions and enhance climate resilience across its own buildings, facilities, functions and services. The Council also advances its efforts in influencing climate action in the wider community. This is derived from the Council's Corporate Plan, a core value of which is 'Climate First - Adopt a climate first approach to decision making'. This Annual Progress Report has outlined progress on all CCAP actions, across the five theme areas of Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management. This year's update also includes twenty-two (22) New actions across all CCAP theme areas.

The national Climate Action Plan 2021 further bolsters the role of local authorities in tackling both the causes and impacts of climate change. The Plan also states that Climate Action Regional Offices (CAROs) will continue to play a central role in supporting and coordinating climate action by local authorities including: developing capacity through training; supporting behavioural change initiatives; identifying and sourcing funding opportunities; and measuring and recording performance. The Plan commits all local authorities in Ireland to prepare a Climate Action Plan at least once every five years, containing both mitigation and adaptation measures, and to develop a Decarbonisation Zone within its administrative area, that will become the focus for a range of climate mitigation, adaptation and biodiversity measures. This process will include the identification of projects and their associated outcomes that will contribute to achieving national climate targets to 2030 and beyond.

The Council continues to participate in and support SEAI's Sustainable Energy Communities (SEC) programme. dlr has partnered with Shankill Action for a Green Earth (SAGE) and Belarmine Sustainable Energy Communities, to provide bridge financing, to support the preparation of comprehensive Energy Master Plans (EMP) for the areas. The completed EMPs will include a Register of Opportunities, which is a range of projects that the SECs could move forward with into the future.

The Council is particularly proud to have won the top prize of 'Energy Team of the Year' at the 2021 SEAI Energy Awards, held on Thursday 21st October 2021. The Council is also honoured to have chaired the Steering Group, and hosted the official Launch of the first Dublin Climate Action Week, at the prestigious dlr Lexicon on Monday 13th September 2021. At the launch Tom McHugh, dlr interim Chief Executive, said local authorities in Dublin and across Ireland were continuing to respond to and adapt to the needs of local communities. In addition, Minister Eamon Ryan TD also stated that, local authorities and communities were critical to addressing the crises of climate, biodiversity and pollution.

Dún Laoghaire-Rathdown County Council was one of the first Local Authorities in Ireland, to introduce significant mobility and public realm measures, in order to respond to some of the challenges of Covid-19. The re-configuration and redesign of Blackrock Village Main Street and the introduction of the Coastal Mobility Route, along the coast road from Seapoint to Sandycove, were the first two projects implemented, followed by Glasthule Village, Dundrum Village and Dalkey Village.

dlr recognises European funded projects as a key enabler of shared learning and assisting in pilot climate action projects, across the County. As such, the Council is delighted to be a partner in DeliverEE, SCORE, PRECINT and PROBONO, which address the areas of energy efficiency, building upgrades and enhancing the resilience of our critical infrastructure and local communities.

The implementation and monitoring of this Plan, together with that of the other Dublin local authorities, in partnership with Codema – Dublin’s Energy Agency and the Dublin Climate Action Regional Office (CARO), provides for a clear roadmap and co-ordinated approach to address the national climate objective as set out in the Climate Action and Low Carbon Development (Amendment) Act 2021, the ambitions of the Climate Action Plan 2021 and the shared energy and climate targets to 2030 and beyond.



Launch of Dublin Climate Action Week 2021 at dlr Lexicon



APPENDIX I: LOCAL AUTHORITY CLIMATE ACTION CHARTER

CLIMATE ACTION CHARTER

For Local Authorities and Minister for Communications, Climate Action and Environment on behalf of Government.

(1) The signatories share the common understanding that:

- (a) the evidence of global warming is unequivocal and the effects of climate change are clearly evident;
- (b) it is important to take action and to work together to share best practices, to reduce Greenhouse Gas (GHG) emissions and address the impacts of climate change
- (c) reducing GHG emissions and preparing for climate change impacts will generate environmental, social, economic and health benefits for individuals, families, and communities
- (d) It is important to take action to adapt to the now inevitable consequences of climate change and to work collectively to ensure that the local authority sector is positioned to build resilience against negative impacts and avail of the positive effects that may occur.

(2) The signatories acknowledge that a whole of government approach is essential in addressing climate change and recognise that:

- (a) Central Government has a lead role to play in developing policy and ensuring resources are made available to realise Ireland's commitment to achieving a net zero carbon energy system objective for Irish society and in the process, create a climate resilient, vibrant and sustainable country
- (b) Local Authorities are ideally placed to provide robust leadership in advancing this objective at the local and regional level. Support and resources will continue to be provided through the National Development Plan allocations, in addition to their own resources, which will aid them in developing and implementing relevant activities under this charter
- (c) Central and Local Government need to work in partnership and collaboration to ensure an effective response to the challenges presented by climate change

(3) This Charter acknowledges that local authorities will, with the support of Central Government:

- (a) be advocates for Climate Action in our own policies and practices, and in our many various dealings with citizens and to underpin this role through the corporate planning process.
- (b) adhere to the UN Sustainable Development Goals, in particular Goal 13 Climate Action;
- (c) aim to measure the carbon impact of our various activities as accurately as possible and report as required so as to inform relevant local, regional and national policies,
- (d) implement, in so far as is practicable, measures which reduce our carbon emissions in line with national objectives, and develop a method for planning and reporting on these actions
- (e) deliver a 50% improvement in energy efficiency by 2030 (on the 2009 baseline)
- (f) ensure that policies and practices at local government level lead us towards low carbon pathways and put in place a process for carbon proofing major decisions, programmes and projects on a systematic basis, including investments in transport and energy infrastructure moving over time to a near zero carbon investment strategy
- (g) Ask suppliers as part of the procurement process to provide information on their carbon footprint and on the sustainability practices and steps they plan to reduce its impact



- (h) implement green public procurement strategy and procedures across all business areas
- (i) support our employees to undertake changes in their lifestyles both at work and at home, to reduce carbon impact and encourage work-based employee-led groups to identify and implement ideas for improvement
- (j) put in place, and resource, a long term training strategy (technical and behavioural) for LA staff to provide appropriate capacity for the sector to deliver on climate action
- (k) encourage clients/customers/service users to undertake lifestyle changes to reduce their carbon impact, with a particular emphasis on supporting those clients/customers/service users who may face difficulties in funding such measures
- (l) cultivate and actively participate in partnerships with enterprise, community and voluntary groups so as to, improve the use of resources and reduced climate impact
- (m) play a key role in helping to build and implement a sustained localised citizen engagement model in supporting the various initiatives under the National Dialogue on Climate Action
- (n) exercise our planning and regulatory roles to help improve climate outcomes in the wider community and beyond the public sector, by developing and implementing robust evidenced based policy and standards on climate action, through appropriate and relevant adaptation and mitigation measures
- (o) continue to identify and develop specific actions to be taken to reduce the risks associated with negative climate change impacts and build resilience to these impacts through effective implementation of climate adaptation strategies/ Climate Change Action Plans
- (p) support elected officials in ensuring all council led activities are climate proofed in terms of achieving effective low carbon and climate resilient outcomes
- (q) Explore opportunities to partner or collaborate on climate action initiatives across the public, private and education sectors.
- (r) Support Enterprise through LEO/LCDC offices to exploit opportunities which will arise from meeting the challenges of Climate Change
- (s) work with relevant stakeholders to source funding for implementing climate action projects;
- (t) liaise with 3rd level institutions & the research community both nationally and internationally with a view to developing centres of excellence where appropriate
- (u) develop links with young citizens to give voice to their understanding and concerns on climate change and to enhance their awareness and the actions that they can take.
- (v) continue to develop and strengthen links with both central government (relevant departments and agencies) and regional bodies to help ensure a coordinated and coherent approach to the delivery of the national climate action agenda
- (w) Monitor, evaluate and report annually on the implementation of activities under this charter

APPENDIX II: LIST OF ACRONYMS

BER	Building Energy Rating
CARO	Climate Action Regional Office
CCAC	Climate Change Advisory Committee
CCAP	Climate Change Action Plan
CCMA	County & City Management Association
CFRAMs	Catchment Flood Risk Assessment & Management
CSO	Central Statistics Office
DAFM	Department of Agriculture, Food & Marine
DECC	Department of the Environment, Climate & Communications
DHPLG	Department of Housing, Planning & Local Government
DLAs	Dublin Local Authorities
DLR	Dún Laoghaire–Rathdown
DTTAS	Department of Transport, Tourism & Sport
EMWR	Eastern & Midlands Waste Region
EnPi	Energy Performance Indicator
EPA	Environmental Protection Agency
EPC	Energy Performance Contract
ESRI	Economic & Social Research Institute
EV	Electric Vehicle
GHG	Greenhouse Gases
LEADER	Liaisons entre actions de developement de Léconomie Rurale
LGMA	Local Government Management Agency
NAF	National Adaptation Framework
NBS	Nature-Based Solutions
NZEB	Nearly Zero Energy Building
NTA	National Transport Authority
NPWS	National Parks & Wildlife Services
OPW	Office of Public Works
RD&D	Research, Development & Demonstration
RMCEI	Recommended Minimum Criteria for Environmental Inspections
SDZ	Strategic Development Zone
SEAI	Sustainable Energy Authority of Ireland
SEC	Sustainable Energy Community
SECAP	Sustainable Energy & Climate Action Plan
SPC	Strategic Policy Committee
SuDS	Sustainable Urban Drainage Systems
TPER	Total Primary Energy Requirement

