



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

**ANNUAL PROGRESS REPORT 2020**

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 the Dublin energy agency Codema 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

Since the approval of the Climate Change Action Plan (CCAP) in May 2019, the Council is continuing its efforts in mainstreaming climate action across its own buildings, facilities, functions and services. This stems from the Council's Corporate Plan, a core value of which is 'Climate First - Adopt a climate first approach to decision-making'.

The CCAP is the representation of these cross-departmental efforts, and this Report outlines the progress that the Council has made in the one hundred and twenty-three actions across the five thematic areas of the Plan: Energy and Buildings, Transport, Flood Resilience, Nature-Based Solutions and Resource Management.

The implementation of the CCAP is also an ongoing shared vision across the four Dublin local authorities, who are working together to reduce greenhouse gas emissions, increase energy efficiency and enhance the climate resilience of Dublin as a city region.

The Council and elected members wish to acknowledge the continued support of a range of stakeholders in the current and future delivery of CCAP actions, in particular Codema – Dublin's Energy Agency and the Dublin Climate Action Regional Office (CARO).

Through the ongoing implementation and monitoring of the CCAP, the Council is committed to building its adaptive capacity by focusing on identifying knowledge gaps, continued cross-sectoral collaboration and focusing on outward knowledge sharing and capacity building.

*Robert Burns*  
*Director of Service,*  
*Infrastructure and Climate Change Department*



# INTRODUCTION

The Dún Laoghaire-Rathdown County Council (dlr) Climate Change Action Plan (CCAP) was approved in May 2019 in accordance with the National Adaptation Framework – Planning for a Climate Resilient Ireland 2018 (NAF)<sup>1</sup>. The Plan was also completed in accordance with the requirements of the Covenant of Mayors (COM)<sup>2</sup> for Climate & Energy to which the Council is a signatory.

The Council's CCAP was submitted to the Department of Communications, Climate Action and Environment in September 2019. The CCAP sets out four key targets and 123 actions, that the Council will undertake in response to the climate and biodiversity emergency.

The Plan was developed in collaboration with the other Dublin local authorities (DLA) in partnership with Codema – Dublin's Energy Agency and the Dublin Climate Action Regional Office (CARO).

The four targets in the Plan are as follows:

- A 33% improvement in the Council's energy efficiency by December 2020;
- A 40% reduction in the Council's greenhouse gas emissions by 2030;
- To make Dublin a climate resilient region, by reducing the impacts of future climate change-related events; and
- To actively engage and inform citizens on climate change.

The 123 actions span five key action areas as follows: Energy and Buildings, Transport, Flood Resilience, Nature-Based Solutions and Resource Management. In July 2020, the Climate Action Officer was appointed and has been working with the Climate Action Team (see graphic on page 4) to monitor progress on the CCAP.

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 impacts of climate change. Recent extreme events, such as Storms Ellen and Francis in August 2020 have shown that we are continually vulnerable to its impacts. 2019 was the ninth consecutive year with temperatures in Ireland above normal. The winter of 2018/2019 was the warmest winter on record in Ireland (119 years), as set out in Met Éireann's Long Series Record Climate of Ireland analysis.

The Climate Change Advisory Council – Annual Review 2020 states that, 'local authorities must integrate

climate action into their existing functions with adequate resourcing to deliver on this role' (Climate Change Advisory Council, 2020). The National Climate Action Plan 2019 commits to the development of a new public sector decarbonisation strategy, to set out a roadmap to reach carbon neutrality by 2050.

Together with all other local authorities, the Council signed a Local Authority Climate Action Charter in November 2019, that bolstered the Council's efforts to address climate action and to the implementation of its Climate Change Action Plan 2019-2024. The Charter also commits all local authorities to embed decarbonisation, sustainable development and climate resilience across its buildings, facilities, functions and services.

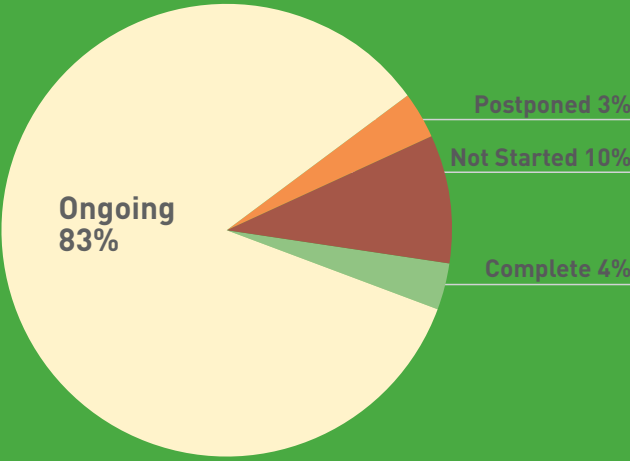
The Council has committed to reviewing and reporting on this Plan annually, in line with the requirements of the National Adaptation Framework and Covenant of Mayors for Climate & Energy processes. This Annual Progress Report presents a summary of progress to date across the five theme areas. The following 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 Plan will be reviewed and updated with new actions that emerge on an annual basis, and as actions are completed etc. Overall action progress is shown on the opposite page. At present, 83% of CCAP Actions are 'Ongoing'; these actions are broad-ranging and have a rolling duration, and are generally greater than one year in life-span. For example, actions such as gully 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.

The published dlr Climate Change Action Plan 2019-2024 can be viewed at: <https://dublinclimatechange.codema.ie/f/50477/x/1a0799071b/2019-dlr-climate-change-action-plan.pdf> and [www.dlrcoco.ie/en/environment/climate-change-action-plan-2019-2024](http://www.dlrcoco.ie/en/environment/climate-change-action-plan-2019-2024)



**123**  
**ACTIONS**



ACTION AREA	COMPLETE	ONGOING	POSTPONED	NOT STARTED
Energy & Buildings	1 action	20 actions	0 actions	1 action
Transport	1 action	17 actions	0 actions	1 action
Flood Resilience	1 action	18 actions	0 actions	2 actions
Nature-Based Solutions	1 action	26 actions	3 actions	7 actions
Resource Management	1 action	22 actions	0 actions	1 action
<b>TOTALS</b>	<b>5</b>	<b>103</b>	<b>3</b>	<b>12</b>

## UPDATES TO POLICY AND LEGISLATION SINCE THE ADOPTION OF THE CCAP

The policy and legislative context relating to climate action has developed since the adoption of the CCAP. The **Climate Action Plan 2019 – To Tackle Climate Breakdown**<sup>3</sup> represents the Government's all-of-society approach, aimed at enabling Ireland to meet its EU targets to reduce its carbon emissions by 30% between 2021 and 2030, and lay the foundations for achieving net zero carbon emissions by 2050. The Plan contains a range of multi-stakeholder actions across a variety of sectors including the local authority sector. It also highlights the leadership role of the public sector, including local authorities, and the importance of citizen engagement and community leadership. At the heart of the Plan, is the key message that climate action requires a range of thematic areas to work together to meet the challenge.

A noteworthy action of the Plan was the requirement by local authorities to develop and sign a new Climate Action Charter. This Charter was signed by all local authorities in November 2019. A copy of the local authority Climate Action Charter is presented in the Appendix. Examples of key requirements under the Charter are to:

- Measure the carbon impact of activities and implement measures to reduce carbon emissions in line with national objectives including a 50% improvement in energy efficiency by 2030;
- 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;
- Ask suppliers as part of the procurement process to provide information on their carbon footprint and sustainability practices, and implement a green public procurement strategy and procedures across all business areas; and
- Exercise 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.

The **Climate Action Plan 2019 – First Progress Report**<sup>4</sup> outlined the main milestones reached across sectors since the publication of the National Climate Plan. In terms of the local authority sector, it noted the signing of a Climate Action Charter by each local authority; a survey of local authorities<sup>5</sup> to establish a baseline of current climate change activities and establish best practices; the role of Local Authorities in town hall meetings to progress community engagement on climate action and the role of the CAROs in formulating and delivering technical training to Local Authorities.

The Climate Action Plan also commits to delivering a **Just Transition**<sup>6</sup>, recognising the significant level of change required and that burdens borne must be seen to be fair across society. Developing the opportunities in a decarbonising economy is recognised as a key pillar to the Climate Action Plan and in this regard the Plan envisages that existing initiatives and structures will be mobilised to maximise enterprise opportunities. A Just Transition commissioner has been appointed by the Government and a new Just Transition fund for the midlands region was launched in June 2020.

The **Climate Action and Low Carbon Development (Amendment) Bill 2020**<sup>7</sup> was published in October 2020 and aims to enshrine in law the approach and actions outlined in the National Climate Action Plan. The Bill puts into law a commitment for net-zero greenhouse gas emissions by 2050, through establishing a 'National 2050 Climate Objective' that the State will pursue the transition to a 'climate resilient and climate neutral economy' by the end of the year 2050. The draft Bill also includes the requirement for local authorities to prepare a Climate Action Plan addressing both climate mitigation and adaptation measures within 12 months of receipt of a request from the Minister. These climate change action plans will contribute to the national 2050 climate objective and shall be reflected specifically within the development planning processes. It is anticipated that the final Climate Bill will be published by government before the end of 2020.

The graphic on the opposite page presents a summary of climate action governance from Local Authority level to National Government level.

**JUST TRANSITION COMMISSIONER**

**CLIMATE ACTION PLAN DELIVERY BOARD**  
*Chaired by the Department of the Environment, Climate and Communications and the Department of the Taoiseach*

**CLIMATE CHANGE ADVISORY COUNCIL**

**NATIONAL ADAPTATION STEERING GROUP**  
*Chaired by the Department of the Environment, Climate and Communications with representatives from all Government Departments, Agencies, Local Authority Sector for Sectoral and Local Adaptation Plans*

**CCAC ADAPTATION SUB COMMITTEE**

GOVERNMENT DEPARTMENT LEVEL GOVERNANCE

**CCMA CLIMATE ACTION, TRANSPORT AND NETWORKS COMMITTEE**  
 · Local Authority representatives  
 · Local Government Management Agency (LGMA) representatives

**NATIONAL LOCAL AUTHORITY CLIMATE ACTION STEERING GROUP**  
 · CCMA · Dublin City Council · Department of the Environment, Climate and Communications · EPA  
 · LGMA · Cork County Council · OPW · Met Éireann  
 · Kildare County Council · Geological Survey Ireland  
 · Kilkenny County Council


LOCAL AUTHORITY NATIONAL LEVEL GOVERNANCE

**NATIONAL CLIMATE ACTION REGIONAL OFFICE MANAGEMENT GROUP**  
 · Dublin Metropolitan CARO · Dublin City Council · Department of the Environment, Climate and Communications  
 · Eastern & Midlands CARO · Cork County Council · EPA  
 · Atlantic Seaboard South CARO · Kildare County Council · Climate Ireland  
 · Atlantic Seaboard North CARO · Kilkenny County Council  
 · Mayo County Council

CLIMATE ACTION REGIONAL OFFICES – NATIONAL LEVEL GOVERNANCE

**REGIONAL CLIMATE ACTION STEERING GROUP**  
 · Dublin Metropolitan CARO · Dublin City Council  
 · Codema · Dún Laoghaire-Rathdown County Council  
 · Eastern and Midland Regional Assembly · Fingal County Council  
 · South Dublin County Council

REGIONAL LEVEL GOVERNANCE

 Comhairle Cathrach Bhaile Átha Cliath  
**Dublin City Council**  
 Climate Action Team  
 Full Council and Strategic Policy Committees (SPC)

 **dlr**  
 Comhairle Contae County Council  
 Climate Action Team  
 Full Council and Strategic Policy Committees (SPC)

 Comhairle Contae Fhine Gáil  
**Fingal County Council**  
 Climate Action Team  
 Full Council and Strategic Policy Committees (SPC)

 Comhairle Contae Átha Cliath Theas  
**South Dublin County Council**  
 Climate Action Team  
 Full Council and Strategic Policy Committees (SPC)

 **codema**  
 Dublin's Energy Agency

LOCAL AUTHORITY GOVERNANCE

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)

Climate action features prominently in the new **Programme for Government**<sup>9</sup> with commitments in relation to climate legislation, carbon taxation, renewable energy targets, sectoral emission reduction targets, increased funding for sustainable transport and a focus on the retrofitting of private houses.

The **Climate Change Advisory Council (CCAC)**<sup>9</sup> published its 2020 annual review in late September. A key task of the CCAC is to conduct an annual review of progress made over the previous year across all sectors, in reducing greenhouse gas emissions and furthering the transition to a low-carbon, climate-resilient and sustainable economy and society by 2050. A recommendation in the 2020 review is that in order “to better prepare for future climate extremes and limit their impact we need to move from adaptation planning to adaptation action implementing the priorities of existing sectoral adaptation plans and local adaptation strategies...”

At a European level the **Green Deal**<sup>10</sup> published in late 2019 is a new growth strategy that aims to transform the EU into a fair and prosperous society, with a modern, resource-efficient and competitive economy where there are no net emissions of greenhouse gases in 2050 and where economic growth is decoupled from resource use. In its’ recent State of the Union 2020<sup>11</sup> address, the Commission has committed to a more ambitious greenhouse gas reduction targets of 55% by 2030 and new climate legislation. This level of ambition for the next decade will put the EU on a balanced pathway to reaching climate neutrality by 2050.

A new **EU Biodiversity Strategy for 2030**<sup>12</sup> was published in May 2020 detailing a comprehensive, ambitious, long-term plan for protecting nature and reversing the degradation of ecosystems. It aims to put Europe’s biodiversity on a path to recovery by 2030 with benefits for people, the climate and the planet. It aims to build our societies’ resilience to future threats such as climate change impacts, forest fires, food insecurity or disease outbreaks, including protecting wildlife and fighting illegal wildlife trade. A core part of the European Green Deal, the Biodiversity Strategy will also support a green recovery following the COVID-19 pandemic. A new **EU Strategy on Adaptation to Climate Change Strategy**<sup>13</sup> is expected in early 2021, building on the current strategy, which was adopted in 2013.

## COVID-19 IMPACT

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The ongoing COVID-19 pandemic has had an impact on all levels of society, with over 1,800 deaths nationwide and over 54,000 confirmed cases at the time of writing. The Economic and Social Research Institute (ESRI) expects Ireland’s GDP to decrease by approximately 13% in 2020 because of economic disruptions caused by the pandemic. It subsequently expects economy-wide CO<sub>2</sub> emissions to decrease by 9.5 per cent in 2020<sup>14</sup>.

A report by the Environmental Protection Agency, Ireland in the Pandemic: Environmental observations<sup>15</sup> showed at least temporary improvements in some areas of the environment, including air quality and a reduction in transport related greenhouse gas emissions. Other areas like waste generation increased due to increased household waste and an increase in single use plastic as a result of COVID related requirements. The report concludes that “while there are positives associated with a lower societal impact on the environment, the EPA recognises that the current situation is not normal economic activity. However, as the country exits the lockdown, there is an opportunity to decouple environmental harm from economic growth for a sustainable future. Long-term improvements beyond the end of the crisis can only be achieved by means of a targeted climate and environment policy”.

A number of surveys undertaken in recent months<sup>16</sup> on people’s experiences during the pandemic particularly when local travel restrictions were in place, found increased cycling and walking and enjoyment of local green spaces like public parks. An increased appreciation of nature and local wildlife was also noted.

Local authorities in collaboration with other actors, such as the GAA have had a central role in providing services to citizens during this period through the establishment of local community response forums<sup>17</sup>. The forums provide support such as shopping for food, fuel and other essential household items, transport to medical appointments, delivery of hot meals through local meals on wheels services and the collection of prescribed medicines.

In addition, local authorities have responded to the additional needs of its businesses and citizens during this time in terms of adaptations to the public realm, including the provision of outdoor dining space, footpath space and cycling infrastructure to improve the liveability and



mobility in areas and to support business to operating under COVID-19 restrictions. Some actions such as cycling and pedestrian improvements were actions included in the Climate Change Action Plan that have been expedited due to the pandemic. Further information on dlr's achievements in this area are included in the Transport section update on page 13.

A recent Local Government Management Agency (LGMA)<sup>18</sup> report showed that as a result of COVID-19, local authorities implemented solutions, redesigned existing business processes, provided enhanced internal I.T. services to support working from home, improved online service provision for public/businesses and developed enhanced internal I.T. capabilities to support internal services.

Whilst the COVID-10 pandemic has had significant impacts on many people lives, as well as Council activities, which in turn had an effect on the progression of some CCAP actions, dlr has taken innovative and alternative approaches to deliver some of these actions.

For example, Dún Laoghaire-Rathdown County Council developed a range of online initiatives and supports with regard to Nature Based Solutions and Resource Management CCAP actions. These included a series of online events as part of Biodiversity Week 2020 and the Reuse Projects at Home Booklet - Summer 2020.

The Council also re-imagined its Tidy Districts Competition 2020. While the competition itself did not proceed in 2020 due to the pandemic, the Council was keen to ensure that participating communities did not lose out on the support traditionally provided in the form of feedback and consultation which came about through the judging visits and opportunity to gain and share new ideas on initiatives they might take in their communities. The Council arranged a non-competitive Tidy Districts consultation for fifteen interested groups in June and July 2020, with a focus on projects and initiatives that could be carried out in 2021.

This flexibility that Local Authorities have shown in terms of pivoting work practices and public services from office to remote working and the use of technology, online platforms and communications will be of long-term benefit to Council staff and the public. These practices also have the potential for longer term environmental benefits due to reduced travel and resource use.



*dlr's new dedicated cycle route through Dundrum village*

## COVENANT OF MAYORS UPDATE

All signatories to the European Covenant of Mayors are required to submit a Sustainable Energy and Climate Action Plan (SECAP). All four Dublin Local Authorities (DLAs) Sustainable Energy and Climate Action Plans (SECAPs) were completed in Q3 of 2019. The Covenant of Mayors SECAP is based on the DLAs' CCAPs and the four Dublin Baseline Emission Reports prepared in 2016. The actions from the thematic sections, energy and emission baseline inventory, adaptation baseline, the risks and vulnerability assessments were extracted from the CCAPs and uploaded to the Covenant of Mayors SECAP web template.

The Dún Laoghaire-Rathdown SECAP overview can be found on the Covenant of Mayors website: [https://www.covenantofmayors.eu/about/covenant-community/signatories/action-plan.html?scity\\_id=20017](https://www.covenantofmayors.eu/about/covenant-community/signatories/action-plan.html?scity_id=20017)



## CODEMA UPDATE

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This section is a non-exhaustive summary of some of the main activities Codema has undertaken in the last 12 months. Since the Climate Change Action Plan's publication in 2019, Codema has continued its work as the energy advisor to the four Dublin Local Authorities (DLAs). One major change to the company came early in 2020 when Donna Gartland was appointed as Codema's new CEO, taking over from director and founder Gerry Wardell. Donna has worked with Codema for the last six years in the role of Senior Energy Planner and she has been instrumental in developing district heating as a low-carbon solution to Ireland's heating sector and played a key role in securing almost €25 million in total for the Dublin District Heating System and the Tallaght District Heating Scheme through the government's Climate Action Fund. She has extensive experience in energy planning and policy and also as a team builder. Codema will continue to enable the transition to a low-carbon future in Dublin and beyond. Codema also continues to work closely with the Dublin CARO towards a regional approach to climate change solutions.

### ENERGY MANAGEMENT

DLR has surpassed its 2020 energy efficiency target by reducing its energy use by 37.2% compared to the baseline. Codema assists DLR in the implementation of their ISO 50001 Energy Management System (EnMS), to drive energy performance and energy awareness throughout the Council. Codema held a number of workshops to help train the new SEU representatives in their roles and responsibilities in relation to the EnMS. Twenty Display Energy Certificates were generated for public buildings. Codema regularly assists the DLAs in applications for national funding to assist in the development of low-carbon projects such as the SEAI Project Development Assistance grant. We have also assisted in the submission of an expression of interest to the upcoming Climate Action Fund for a solar PV and lighting project across multiple Council buildings. Codema also carried out research on behalf of the four Dublin Local Authorities that examines the national Climate Action Plan 2019 requirement for all public buildings to achieve a 'B' BER rating by 2030.

### ENERGY AND CLIMATE AWARENESS

In 2020, Codema developed another two Home Energy Saving Kits for DLR Libraries, due to ongoing public demand and the success of the scheme within the library network. It will bring to eleven the number of kits that are available for the public to borrow within DLR Libraries' network. To date, the kits have been borrowed 133 times by the general public.

### 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 CO<sub>2</sub> 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 planners and other decision makers in all energy related plans in the future.

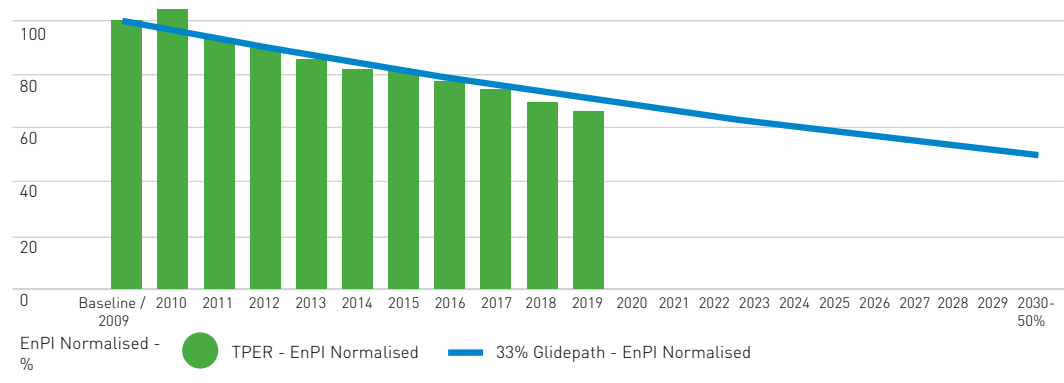
### EU PROJECTS

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:

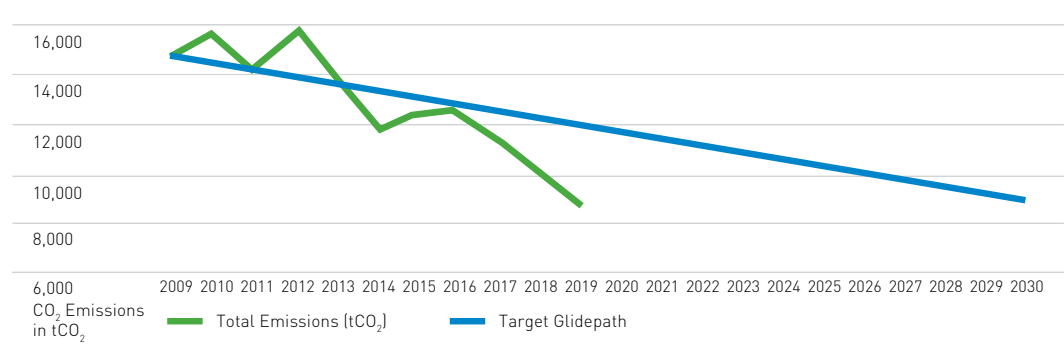
**HeatNet NWE:** The Interreg NWE HeatNet project aims to remove the policy, economic and technological barriers to fourth generation district heating in North-West Europe. It has six pilot projects and a budget of €11.5 million. The Tallaght District Heating Scheme in South Dublin, which is using waste heat from the Amazon data centre to provide low-carbon heating to several public and private buildings, is one of the pilots. HeatNet NWE will finish in the first quarter of 2021. All learnings will be used in the development of the Dublin Docklands District Heating Project.

**TOMORROW:** Codema - together with the four Dublin Local Authorities - is developing a collaborative Transition Roadmap for the Dublin Region, 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. This roadmap will be developed as part of the H2020 'TOMORROW' project, in which Dublin is one of six pilot EU cities to develop a 2050 transition roadmap for a climate-neutral, liveable city and county. Codema will roll out a public engagement campaign in 2021 to ensure citizens' voices are heard so they can take ownership of this transition, and the roadmap will be developed by the end of 2022.

*dlr annual energy performance compared to 50% glidepath*



*dlr annual CO<sub>2</sub> emissions Performance compared to 40% glidepath*



**Decarb City Pipes:** Codema are partners in the Decarb City Pipes 2050 project which commenced 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.

**REDAP:** Codema is a partner in the Regional Energy Demand Analysis Portal (REDAP) project, which was approved under the 2018 European Research Area Network (ERA-Net) Smart Energy Systems fund and supported by SEAI. REDAP 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 will provide insight to end-users regarding the region's building stock and will incorporate a process for analysing the dynamic energy demand of urban mobility systems across different routes and modes.

**QGasSP:** In September, Codema along with partners from Estonia and Finland, were awarded the tender to deliver the QGasSP (Quantitative Greenhouse Gas Impact

Assessment Method for Spatial Planning Policy) project. 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. The Eastern and Midlands Regional Authority (IE) will be one of the beneficiaries of the outcomes.

Codema is still actively seeking EU funding to advance the transition to a carbon-neutral Dublin. To this end, we have recently applied for funding for several projects through the Horizon 2020 September call and the EU City Facility funding stream.

**SUSTAINABLE ENERGY COMMUNITIES**

Codema won the tender to coordinate 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 move them along their progress from learning about energy and climate change, to conducting an energy master plan 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 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. The tender will last for four years and has already proved very popular with fifteen new SECs signing up and a current total of ninety-five SECs across the region.

## 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 Midlands 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 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



Climate Action Regional Offices (CAROs)

CLIMATE ACTION REGION	LOCAL AUTHORITY FUNCTION AREA	LEAD AUTHORITY
<b>Dublin Metropolitan</b>	South Dublin, Fingal, Dún Laoghaire-Rathdown, Dublin City	Dublin City Council
<b>Eastern and Midlands</b>	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
<b>Atlantic Seaboard North</b>	Donegal, Sligo, Mayo, Galway City & County	Mayo County Council
<b>Atlantic Seaboard South</b>	Clare, Limerick, Kerry, Cork City & County	Cork County Council

Climate Action Regional Offices

- 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 Mitigation

- Preparation of guidance on topics such as Decarbonising 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 LEADER funded climate action workshops
- Collaboration with key stakeholders such as GAA on Green Clubs Pilot, Comhairle na nÓg, Age Friendly Ireland
- Finalisation of CARO website and social media communication channels

#### Training And Education

- Preparation 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 and local authorities and Regional Assemblies on planning issues relating to climate action including the hosting of planning workshops

A key focus of the CAROs for the remainder of 2020 and into 2021 will be 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, Climate Ireland, the Sustainable Energy Authority of Ireland (SEAI), Met Éireann, the Environmental Protection Agency, the Institute for Public Administration and others. This training will be targeted at all staff levels and will focus on the following 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
- *Behavioural 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, community engagement, roads adaptation, age friendly projects, Comhairle na nÓg etc.



**LOCAL AUTHORITY**  
**Climate Action**  
 Training Programme

# PROGRESS SUMMARY BY CCAP ACTION AREA

## ENERGY & BUILDINGS

In 2019, dlr consumed a total of 49.3 gigawatt hours (GWh) of primary energy; this is the equivalent of 8,800 tonnes of CO<sub>2</sub>, at an approximate cost of €4.1 million. As reported by the Sustainable Energy Authority of Ireland's Monitoring & Reporting (M&R) System, DLR has improved its energy performance by 37.2% in 2019, compared to the baseline year of 2009, meaning dlr has exceeded its target of 33% energy efficiency 2020 target, one year in advance. This amounts to an absolute saving of 17.8 GWh of primary energy when compared to the baseline. In terms of greenhouse gas emissions, the Council has also achieved its 40% reduction target for 2020. Compared to the baseline year, dlr's CO<sub>2</sub> emissions in 2019 had reduced by 40.5% to 8,800 tonnes. This is a total reduction of 6,000 tonnes CO<sub>2</sub>.

The Climate Action Plan 2019 states 'our local authorities occupy a pivotal role in their respective local communities and can act to demonstrate public sector leadership on climate action in their areas as well as key mobilisers of action at a local and community level' (Government of Ireland, 2019). Dún Laoghaire-Rathdown County Council won the Leadership in Public Sector SEAI Award 2019 in recognition of the work over many years and commitment to a sustainable model for the benefit of our environment and our communities. The Council was awarded for its multi-faceted efforts in being a national test-bed for a wide range of energy innovations, from internal systems to public amenities and housing. dlr was the first Dublin local

authority to achieve full compliance with the international standard ISO 50001 Energy Management System and got re-certified to the updated more exacting 2018 standard in 2019.

Exemplar housing upgrades include Rochestown House, Sallynoggin, the first and largest social housing scheme in Ireland to be awarded EnerPhit certification. A1 (BER) standard new-builds including rapid delivery housing at Georges Place, Dún Laoghaire were built. DLR hosted the 2019 World nZEB Forum 'Climate Action through nearly zero energy buildings' with 330 participants. Free public seminars were attended by over 200 people on 'Home Energy Improvements' in October 2019. The world's first solar powered phone and electric bike charging benches, the Monna, promoting sustainable transport were installed in two locations. The first public light EV charger in the country was installed in September 2018. The roll out of LED public lighting is ongoing across the County, 56% of lights have been upgraded to date, 13,303 have been converted to LED's to date, out of a total stock of 23,505.

The Council's Housing Maintenance Section is currently installing Climote devices across the Council's housing stock, to help identify the housing units in most need of retrofitting. SEAI estimate that these devices can reduce energy usage by up to 20%. The devices have the ability to compare and generate data before and after retrofit works, and valuable data can be gathered from these devices across the housing stock. It is also intended to start a stock condition survey in 2021 which combined with the



*dlr won the 2019 Leadership in Public Sector SEAI Award*

data gathered from the Climote devices, will enable dlr to develop a Strategy / Retrofit Plan for the Housing Stock. A new LA Tenant Energy Awareness Handbook was devised, for the Housing Department.

The competitive dialogue procurement process for the establishment of an Energy Performance Contract for three dlr Leisure Centres is ongoing; Meadowbrook Leisure Centre, Loughlinstown Leisure Centre and Monkstown Leisure Centre. If successful, the contract is due to be awarded in December 2020 with works commencing soon after. Detailed Energy Assessments were carried out in County Hall, Harbour Square, dlr Lexicon and Ballyogan Operations Centre and an Initial Appraisal for an Energy Performance Contract.

In September 2020, the Council's Architect's department hosted a 'How to Make Your Home More Energy Efficient and Help Build a Sustainable Community' live webinar attended by over 200 participants, which was part of the Open House Dublin programme. The webinar was targeted at home owners who might be considering a renovation, to learn more about how they can increase the energy efficiency of their house, the expected costs and the benefits. Case studies of houses that went from a Building Energy Rating (BER) of E to A and the lessons learned, were presented by two Architects. Participants also learnt about how Sustainable Energy Communities (SEC) are working together and how to access expertise and financial support from the SEAI from an additional two Energy Experts.

Home Energy Saving Kits have been developed by Codema and are available in all dlr libraries for use by the public and dlr staff to check the energy efficiency in homes and to inform home energy efficiency improvements. Due to high demand, two additional kits were added to dlr libraries, eleven kits are now available to borrow.

An expression of interest to the Government Climate Action Fund on behalf of the four Dublin local authorities for grant funding for an Urban Solar Farm across suitable LA rooftops potentially piloting Photovoltaics with Green Roofs, was submitted by Codema in collaboration with the Dublin CARO. If successful, this will include certain dlr public buildings.



Launch of Monna Solar Cycling Bench Sandyford



dlr Housing upgrades at Rochestown House, Sallynaggin (Photo: Donal Murphy)



dlr proudly supports nZEB

nZEB Conference and Workshops with International Speakers

13-14 November 2019

[www.worldnzeforum2019.com](http://www.worldnzeforum2019.com)

dlr hosted World nZEB Forum 'Climate Action through nearly zero energy buildings' in November 2019

## TRANSPORT

Transport is by far the largest source of energy-related CO<sub>2</sub> emissions in Ireland. In 2018 it was responsible for 40%. It is also the sector where CO<sub>2</sub> 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 (Sustainable Energy Authority of Ireland, 2019).

dIc is setting a national example and demonstrating continued leadership in improving pedestrian and cycling infrastructure, to encourage the uptake of cycling and walking throughout the county. In the past months and in direct response to the COVID-19 pandemic, the Council has been working in partnership with local stakeholders in a number of areas around the County, to create temporary designs for re-imagined public spaces in villages and dedicated cycling links on streets. The aim has been to provide a safe and welcoming place for residents, businesses and visitors and help re-open the County as it gets on the path to recovery following the impact from COVID-19. This range of projects include the Blackrock Village Renewal Project, Dundrum Public Realm Enhancements, Coastal Cycle Route and new cycle tracks on Carysfort Avenue, Newtownpark Avenue and Cross Avenue. With regard to developing a bike sharing scheme in dIc, Station-less Bike Share Licences were issued to Moby Bike and Bleeperbike in July 2020.

The Council has received approximately €9 million of funding under the Government's July Stimulus package for sixty-five schemes, to fund a range of cycling and walking projects across the County. The type of projects includes

cycle protection schemes, improved footpaths and road surfaces, and improved cycle links through parks.

In August 2020, the Council launched its Active School Travel initiative, aimed at supporting and promoting alternative means for children to get to school in a safe and active way, in particular, walking and cycling. This initiative is being carried out in partnership with other stakeholders, including the Department of Transport, Tourism & Sport, The National Transport Authority (NTA) and the An Taisce – Green Schools Travel programme. The Council subsequently launched its trial School Zone initiative, which forms part of Active School Travel. This pilot project involves working with Carysfort National School in Blackrock, to implement measures to prevent obstruction of school entrances and footpaths by vehicles, making it safer for those who walk and cycle to school. This trial will also inform appropriate approaches and measures that may be used at other schools across the County, in the future.

In September 2020, the Council launched public engagement on three new proposed walking and cycling routes in the County, titled Sea to Mountains, Mountains to Metals and Park to Park. These new, consolidated routes totalling approximately 25 kilometres in length, are aimed at encouraging increased walking and cycling to school, and for wider use by the general public. Further information on these proposed routes is available at: [www.dIrcoco.ie/en/environment/active-school-travel](http://www.dIrcoco.ie/en/environment/active-school-travel)

The Council is continuing its efforts to transition to an electric vehicle (EV) fleet and currently has 21 electric road vehicles. The Council is also represented on the Dublin



Blackrock Village Renewal Project



Active School Travel initiative launch at Carysfort National School, Blackrock





Regional EV Steering Group including the four Dublin LAs, Smart Dublin and the Dublin CARO., (which is preparing a Dublin Regional EV Charge Point Strategy) and the County and City Management Association (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.

The Council continues to promote road safety and active travel to the general public. The Council has prepared a Cycling Bus Guide, Walking Bus Guide and a Travel Plan Guide for schools in 2020, being the first local authority in Ireland to do so.

The proposed BusConnects Core Bus Corridors (CBC) Infrastructure Works involves the development of continuous bus priority infrastructure and improved pedestrian and cycling facilities on 16 Core Bus Corridors (CBCs), with two of these, Bray to City Centre CBC and Blackrock to Merrion CBC being partially located within the local authority jurisdiction of Dún Laoghaire-Rathdown County Council. The CBCs will make it more efficient, faster, and reliable for people to use the bus network and will encourage more people to use public transport. Each CBC will also make provision for improved pedestrian facilities and increased cycling facilities that will be segregated to the benefit of existing cyclists and encourage new cyclists. The BusConnects Dublin - Core Bus Corridors Infrastructure Works is running a third non-statutory public consultation, which commenced in the first week of November 2020. This will then be followed by the finalisation of the preferred routes and the preparation of planning applications for submission to ABP towards

the end of Q1 2021.

DART+ Programme is a programme of work whose constituent projects will create a full metropolitan DART network with all lines linked and connected, and frequency and capacity of services significantly enhanced. The projects will include extending DART services to Maynooth, Hazelhatch- Celbridge and Drogheda as well as infrastructure upgrades across the network. In addition, a new DART station is planned at Woodbrook between Bray and Shankill. The Local Area Plan for Woodbrook – Shanganagh envisages a population of over 5,000 for this area, which will be directly served by the new station. Subject to planning permission and progress with the Woodbrook development, it is expected that construction will commence in late 2021 with the station opening in early 2023.

The Luas Green Line Capacity Enhancement project will provide extra capacity on the Luas Green Line over the coming years and will cater for the growing demand on the line in the short to medium term. It includes lengthening the existing trams to 55m, plus the purchase of 8 additional 55m long trams. In 2019, seven of the new 55m trams were introduced together with the first of the newly-extended trams. The new trams have a capacity of 408 passengers while the extended trams have increased passenger capacity from 319 to 408. A major expansion of Sandyford Depot is also underway to facilitate the growth in the fleet.

In February 2020, dlr along with the other three local authorities in the Dublin region signed up to the UN WHO Breathe Life commitments. This commits Dublin



dlr Smart Mobility Hub launch



dlr Coastal Mobility Route at Queen's Road

to reaching WHO air quality guideline values by 2030. The Council also supports University College Dublin's participation in the EU Horizon 2020 'WeCount' project. This project aims to empower citizens to take a leading role in collecting data, evidence and knowledge of local mobility patterns. To enhance local knowledge of traffic and travel patterns across the County, dlr residents are 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.

Dún Laoghaire-Rathdown County Council continues to plan for future growth by promoting the integration of transport and land use planning, through the County Development Plan strategy and policies; with a focus on compact growth served by high quality public transport. The Council is currently preparing its new County Development Plan.

These combined efforts will continue to encourage a modal shift away from private cars to more sustainable alternatives, thereby reducing traffic congestion and greenhouse gas emissions, improved health and well-being for citizens and improved air quality associated with reduced congestion, in particular around schools.

## 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.

In July 2020, the Office of Public Works and Flood Relief announced approval of funding of €778,000 to Dún Laoghaire-Rathdown County Council for the construction of a Flood Storage Area in Kilbogget Park in Cabinteely. The funding forms part of the overall proposed €9.6m investment in the Loughlinstown Flood Relief Scheme. The scheme is being led by Dún Laoghaire-Rathdown County Council, with funding provided by the OPW.

The Loughlinstown scheme was listed amongst the first tranche of schemes prioritised by Government in its Flood Risk Management Plans announced in 2018. The proposed plans emanated from the Government's Catchment Flood Risk Assessment and Management (CFRAM) Programme,



*Kilbogget Park - site of proposed Flood Storage Area*

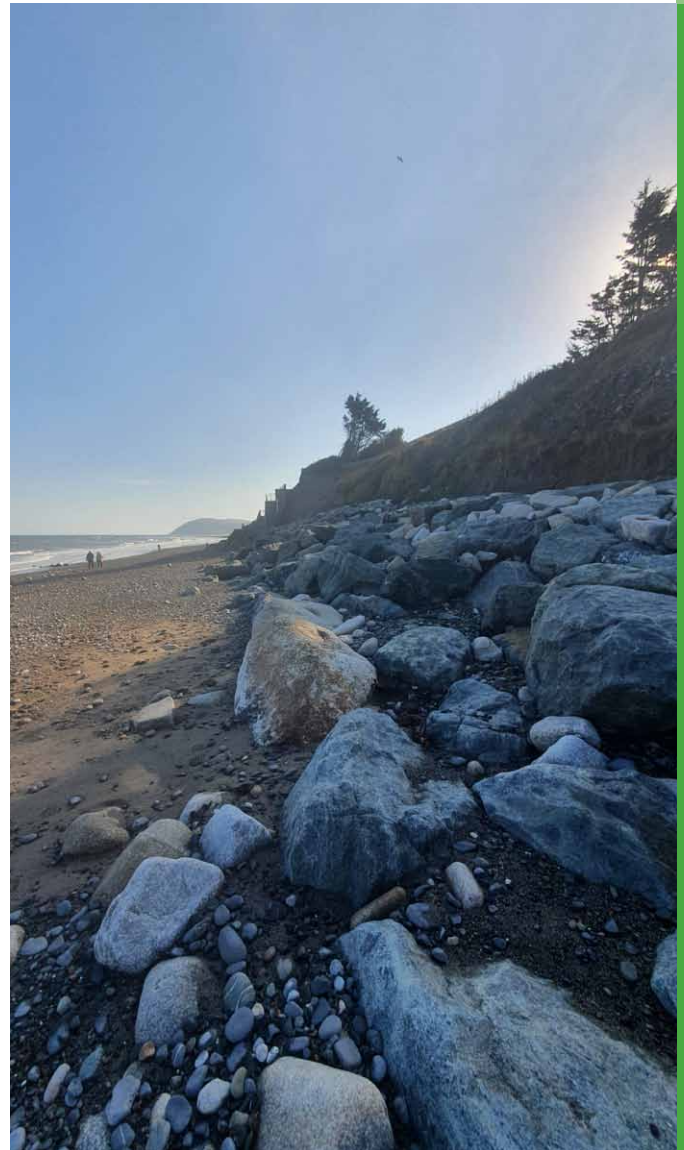
which studied 80% of our primary causes of flooding in communities that house almost two thirds of our population. The implementation of the Plans is supported by the Government's commitment of almost €1 billion for flood risk management in the National Development Plan 2018 – 2027.

The Council completed the Corbawn coastal protection works in Q2 2019. The public beach access structure at Corbawn Lane, Shankill, Co. Dublin was identified as at risk of future instability due to coastal erosion. The structure was being undermined and outflanked. The cliffs adjacent to the access structure were over-steep and at risk of falling onto the beach as was the access structure itself. The works undertaken included the refurbishment of the existing access structure, cliff stability works and coastal protection works over approximately 180 metres in length.

The Council is also undertaking the Bray Woodbrook Landfill Reclamation Project. The eastern side cliff face is impacted by coastal erosion and recent storms have resulted in the exposure of waste material. Consultants have been engaged to design a solution to stabilise the cliff face and prevent further pollution of the bay. The area will be landscaped with new walkways, cycleways and other features to enhance the area as a public amenity. The cost of the works is approximately €2 million and is expected to take 6 months to complete. Works are due to commence in Q4 2020.

The Council also welcomes the setting up by Government of a new National Coastal Change Strategy Steering group, as well as the OPW commencing a pilot Coastal Survey Programme scheme at five locations around the Irish coast.

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.



*Rock armour installed as part of the Corbawn coastal protection works*



## 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.

Dún Laoghaire-Rathdown County Council is the first local authority to carry out an exercise in scoring ecosystem services for biodiversity. This is being undertaken in partnership with the National Parks and Wildlife Service (NPWS). The Council is also preparing a new Biodiversity Plan and a new Invasive Species Plan, which will be developed having regard to the impacts of climate change.

A range of awareness raising campaigns were undertaken during 2019 and 2020, including bumblebee monitoring workshops and talks, pollinator conference presentations, dlr Slow to Mow campaign, and sharing of information

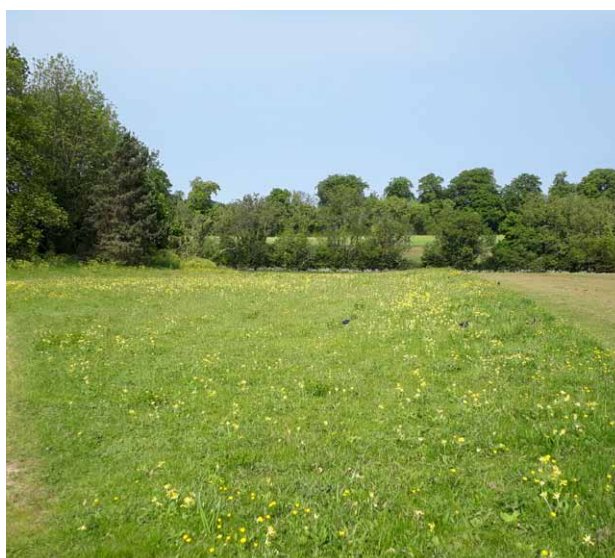
with the National Biodiversity Database Centre. In 2019, dlr produced an animation video titled dlr Biodiversity and Ecosystems, explaining the wide-ranging benefits of biodiversity and ecosystem services. In May 2020, the Council published a dlr Biodiversity Tour Online Booklet. The Council also hosted a range of events as part of its Biodiversity Events 2020 programme. A 'Biodiversity Ideas and Activities to do at Home or in Self Isolation' page is also hosted on the dlr website and the Council are also partners of the All-Ireland Pollinator Plan.

A new Tree & Urban Forestry Strategy (2021-31) is being prepared and this strategy will consider best practice in terms of designing open spaces to maximise the benefits of trees including for climate action and SuDS.

The Council's Architects Department continues to promote the inclusion of green roofs in Civic buildings and social housing developments. This includes the social housing proposals at St. Laurence's, Stillorgan and Moyola Court, Churchtown. The Council is also exploring support opportunities for green roofs in Council developments, in conjunction with the Dublin Climate Action Regional Office (CARO) and the Department of Housing, Local Government and Heritage.



*Conservation grazing at Fernhill Park*



*Pollinators at Cabinteely Park*

Fernhill Park continues to be an exemplar for developing natural based solutions in the County. In March 2020, the Council launched its Future Woodlands Model, as part of National Tree Week 2020. This involves planting a one-hectare woodland at the park. The aim is to measure its climate mitigation benefits and forecast the trees increased benefits for future generations. The Council also developed a demonstration site that combines nature conservation with land use is the Conservation Grazing at Fernhill Park. Rare breed Droimeann graze the meadows located in the 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, and avoiding the need for chemical application and encouraging greater biodiversity.

The Council is also a member of the Dublin Bay Biosphere Partnership, which is made up of six organisations, Dublin Port Authority, Failte Ireland, National Parks and Wildlife Service, Dún Laoghaire-Rathdown County Council, Fingal County Council and Dublin City Council. The current priorities of the Partnership include a comprehensive Conservation and Research Strategy, Sustainable Business Development Programme and an Education Programme.



*Bumble bee monitoring at Marlay Park*



## RESOURCE MANAGEMENT

Effective waste and resource management is an integral element of climate action. In September 2020, the Government published its Waste Action Plan for a Circular Economy, to provide a roadmap for Ireland's transition to a circular economy. A circular economy prioritises the prevention of waste and is based on long-life products that can be renewed, reused, repaired and upgraded to preserve our natural resources, protect habitats and reduce pollution. National waste policy is reinforced at a regional level through the regional waste action plans. The Waste Management Plan for the Eastern-Midlands Region 2015-2021 provides a framework for the prevention and management of waste in a safe and sustainable manner. A new regional waste action plan is currently under development and is expected in 2022. The implementation of these Plans will underpin and inform resource management in Dún Laoghaire-Rathdown County Council and actions contained in this Climate Change Action Plan.

The Council recognises the pivotal role it holds in responding to waste issues, including illegal dumping and improving waste separation for reuse. The Council operates an extensive Bring Centre network for glass, cans and textile recycling throughout the County. These include sites at shopping centres and public car

parks, that are all provided free of charge to the public. Ballyogan Recycling Park is the Council's main recycling and disposal facility, which accepts a wide range of waste types from households. The Eden Park and Shanganagh Recycling Centres also offer recycling facilities for a range of materials free of charge. In 2020, the Council organised a free Mattress Amnesty Day at Ballyogan Recycling Park and Household Hazardous Waste Collection at Eden Park Recycling Centre. 1,600 mattresses and 23 tonnes of Hazardous Waste were collected at these events.

The Council is strongly committed to the promotion of the Waste Hierarchy, as defined by EU legislation, and the circular economy. dlr actively engages the community in the promotion of waste prevention and sustainable resource management through environmental awareness projects and green business programmes. For example, Dún Laoghaire-Rathdown County Council hosted the regional Master Composter programme in 2019, in conjunction with the Environmental Protection Agency and Clean Technology Centre. The Council's first purpose built composting demonstration site was built at Fernhill Park and Garden. This site encourages public engagement and in-situ active education for community garden volunteers and park users. Other recent awareness raising projects include the Community Clean-up Scheme, Green-Schools (with An Taisce), Tidy Districts competition, Less Plastic is Fantastic project, Tidy Schools competition,



*dlr composter demonstration site at Fernhill Park*

Christmas Campaign, Plastic Free July, Relove Fashion, Reuse Projects at Home, Earth Day and Picker Pals (with VOICE). The Council also supports community and school environmental action through various annual grant schemes, including the Community Environmental Action Fund (with the DCCAE) and dlr Environment & Climate Action Grant.

In terms of internal resource management within Council buildings, a reusable cup and reusable bottle campaign encouraged staff to transition to environmentally friendly alternatives. The staff canteen sought to implement alternatives to single-use packaging and incentives to encourage reuse. A comprehensive network of recycling and composting bins are available for staff throughout Council buildings.

The Council's social housing tenant induction programme includes a Tenants Awareness Handbook, which addresses a range of issues including environmental awareness, waste management and energy conservation.

A range of resource management services are continually provided. Big Belly bins are monitored daily through a combination of visual inspection, emptying, cleaning and maintenance/replacement of parts as necessary to ensure serviceability. As an element of the Council's response to the challenges of COVID- 19, a number of temporary 'pop-up' recycling bins have been located at busy outdoor dining locations. The feasibility of a comprehensive recycling bin trial is currently under review.

The wording of some actions in the Resource Management section have been updated for clarity and to reflect recent development in policy.



2019 Master Composter Course



dlr recycled Christmas decoration competition



2019 Tidy Districts Competition Winners













# ENERGY & BUILDINGS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
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## ACTIONS CURRENTLY BUDGETED

### ENERGY PLANNING

E1	Create Dublin Region Energy Master Plan	In the next 5 years	Codema	Website with e-Map	 	<p>The Dublin Region Energy Masterplan is progressing as planned. The team has developed a model of the 'current situation' of energy demand and supply in the residential, commercial and public sector buildings on an hourly basis. New sources of data have been incorporated, such as the smart gas and electricity meter trial data, and new data from SEAI on all public buildings in Dublin and the BER data broken down by small areas, which allows a more accurate estimate of energy demand in the residential sector. There has been some delays due to accessing data from other organisations, but work is ongoing with the CSO and NTA on accessing updated data based on the 2016 Census, providing special tabulations that can be incorporated into the model.</p> <p>Work has also started on identifying all the low-carbon potential in the Dublin region, starting with local sources of fuel and heat which can be used to offset reliance on fossil fuels currently used for heating. An analysis of the electricity grid impacts has also begun, using data from ESB networks, looking at distribution grid capacities and the effects of increased demand for EV charging, heat pumps and data centres on the Dublin grid, and the possible conflicts between these demands in the future. A workshop is also planned with the Planning group established by CARO, to get planning feedback and input into the masterplan model.</p>	Ongoing
E2	Prepare DLR Sustainable Energy and Climate Action Plan	In the next 5 years	Codema	SECAP document	 	<p>DLR's SECAP was completed in Q3 of 2019. The CoM SECAP is based on the Dún Laoghaire-Rathdown CCAP and the Dún Laoghaire-Rathdown Baseline Emission Report 2016. The actions, energy and emission baseline inventory, adaptation baseline, and the risks and vulnerability assessments were extracted from the CCAP and uploaded to the CoM SECAP web template.</p> <p>The Dún Laoghaire-Rathdown SECAP overview can be found on the CoM website:  <a href="https://www.covenantofmayors.eu/about/covenant-community/signatories/action-plan.html?scity_id=20017">https://www.covenantofmayors.eu/about/covenant-community/signatories/action-plan.html?scity_id=20017</a></p>	Complete
E3	Develop and implement Public Lighting Master Plan	In the next 5 years	Infrastructure & Climate Change	Plan completed and ongoing conversion to LEDs	 	<p>Over 56% of street lights in DLR have been upgraded to date, consisting of 13,303 out of 23,505 lights. Upgrading to continue until all lights are LED.</p>	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	   	<p>The Chief Executive's report on the Pre-Draft stage of the County Development Plan was issued to the elected members of the Council in April 2020. It is expected that the Draft CDP will issue on public display in Q1 2021.</p>	Ongoing












NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
<b>ENERGY EFFICIENCY &amp; RENEWABLES</b>							
E5	Deep retrofits of housing stock to nZEB or EnerPHit standard	In the next 5 years	Housing	# of units reaching nZEB or EnerPHit Standard	 	Recent pilot projects were completed to achieve BERs of A1 in 6 houses in Ballyogan, and 12 houses in Moyola were upgraded with the aim of achieving the EnerPHit standard, 4 maisonettes in Daleview achieved a deep energy upgrade to B1 during this review period.	Ongoing
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	 	Housing Maintenance Section is currently installing Climote devices across the Council's housing stock, to help identify the housing units in most need of retrofitting. SEAI estimate that these devices can reduce energy usage by up to 20%. The devices have the ability to compare and generate data before and after retrofit works, and valuable data can be gathered from these devices across the Housing Stock. It is also intended to start a stock condition survey in 2021 which combined with the data gathered from the Climote devices, will enable dlr to develop a Strategy / Retrofit Plan for the Housing Stock.	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	 	As part of DLR's ISO 50001 Energy Management System, the Energy Team has a systematic approach to review energy performance within all SEUs. All SEUs have a targeted action plan which is completed during the energy review process and progress is monitored by the energy team during their energy team meetings. Monthly energy performance reports are issued to all SEU representatives. Any deviation greater than 5% is investigated by the energy team and the SEU representative. Energy assessments have been completed for County Hall, Harbour Square, Ballyogan Operations Depot and dlr Lexlcon and an initial appraisal report for a possible Energy Performance Contract prepared.	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	 	The competitive dialogue procurement process for the establishment of an Energy Performance Contract for 3 dlr Leisure Centres is underway; Meadowbrook Leisure Centre, Loughlinstown Leisure Centre and Monkstown Leisure Centre. If successful, the contract is due to be awarded in December 2020 with works commencing soon after.	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	 	There have been two grant applications to SEAI for Project Assistance Grants to progress the dlr Leisure EPC and to carry out Energy Assessments and an Initial Appraisal of EPC for 4 dlr corporate buildings. Funding was received for energy upgrades of 4 maisonette housing units in Daleview.	Ongoing
E10	Continue upgrading public lighting to LEDs	In the next 5 years	Infra-structure & Climate Change	# of lights upgraded	 	Over 56% of street lights in DLR upgraded to date; this is 13,303 out of 23,505 lights. Upgrading to continue until all lights are LED.	Ongoing
E11	Continued compliance with ISO 50001	In the next 5 years	DLRCC Energy Team, Codema	Certification maintained	 	DLR was the first Dublin LA to achieve full compliance with ISO 50001 Energy Management certification system and got re-certified to the updated more exacting 2018 standard in 2019. The scope of the EnMS is the energy use under the control of Dún Laoghaire-Rathdown County Council.	Ongoing



# ENERGY & BUILDINGS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
E12	Display Energy Certificates for public buildings	In the next 5 years	DLRCC Energy Team, Codema	# of DECs generated annually for public buildings	 	20 Display Energy Certificates (DECs) for DLR buildings over 250m <sup>2</sup> and frequently visited by the public have been prepared. This action is undertaken annually. In Q3 2020, the certificates will be issued to each facility with an information booklet about Display Energy Certificates and also what is needed in relation to energy savings to achieve the next energy rating.	Ongoing
E13	Annual Monitoring and Reporting to SEAI	In the next 5 years	DLRCC Energy Team, Codema	M&R data submitted to SEAI annually	 	<p>2019 monitoring and reporting process complete. To date, as reported by the M&amp;R system, DLR has improved its energy performance by 37.2%, compared to the baseline year of 2009. This means that DLR has achieved its goal of 33% energy efficiency savings by 2020, one year ahead of target.</p> <p>For the 2030 target of 50% energy efficiency improvement, meaning that DLR must improve its energy performance by a further 12.8% compared to its original baseline between now and 2030. The 2030 target for carbon emissions is 40% reduction for DLR as a signatory of the Covenant of Mayors.</p> <p>In 2019 DLRCC was audited and completed a Data Verification Assessment (DVA) in relation to the composite metric chosen for the Council. The assessor deemed no issue in relation to the data entered and DLRCC passed the DVA.</p>	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 won the 2019 Leadership in Public Sector SEAI Award. DLR was the first Dublin LA to achieve full compliance with ISO 50001 Energy Management certification system. Exemplar housing upgrades include Rochestown House, Sallynoggin, the first and largest social housing scheme in Ireland to be awarded EnerPhit certification. A1 new builds including rapid delivery housing were built. DLR hosted the 2019 World nZEB Forum 'Climate Action through nearly zero energy buildings' with 330 participants. Free public seminars for nearly 200 people on 'Home Energy Improvements' in October 2019. The world's first solar powered phone and electric bike charging benches, the Monna, promoting sustainable transport were installed in 2 locations. The first public light EV charger in the country was installed in September 2018.	Ongoing
E15	Publish Energy Review annually	In the next 5 years	Codema	Review published, # recommendations implemented	 	<p>2018 Energy Review published. 2019 review process was completed in September 2020.</p> <p>The aim of this Energy Review is to highlight the total amount of energy DLR consumed in 2019, along with the total cost and carbon emissions associated with this energy use. This Energy Review also aims to clearly demonstrate where energy is used in the Council, what drives its consumption, and where the greatest energy-saving potential is; this will help DLR to identify where it currently is in relation to public sector energy targets, and what areas it needs to prioritise in order to meet these targets between now and 2030.</p>	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
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		Dún Laoghaire and Dundrum Carnegie buildings have been re-roofed and sustainable insulation installed. The works were part-funded by the Historic Structures Fund (HSF 2019). This action will be developed in conjunction with the implementation of Archaeological and Built Heritage Climate Change Sectoral Adaptation Plan, which includes actions related to local authorities. 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

### RESEARCH & INNOVATION

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 Council will pursue an SBIR Challenge in relation to Energy & Buildings, in the next round of Enterprise Ireland SBIR Challenges due to commence in 2021.	Not started
E18	Monitoring of smart lighting trials in the County	In the next 5 years	Infrastructure & Climate Change	Results from trial		There are three trials within DLR at present, all ongoing. Sites include Sandyford Industrial estate, Kilbogget Park and Deer Park.	Ongoing
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 DLR owned buildings to allow for accurate monitoring of energy costs and energy use by each relevant department. In 2020 dlr fleet and public lighting have been added and the energy bills uploading process has been automated for most energy sources.	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		264 DLR office, libraries and depot staff and DLR Leisure staff answered the Energy Awareness survey in September 2019. An information seminar was held for staff in September and 7 staff borrowed the Home Energy Saving Kit. The 2019 World nZEB Forum 'Climate Action through nearly zero energy buildings' took place including practical demonstrations in County Hall of nZEB equipment and processes. It was attended by the relevant dlr staff.	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		Two additional Home Energy Saving Kits added to DLR library network in 2020, eleven kits in total are now available for the public to borrow. To date the kits have been borrowed 133 times by the general public.	Ongoing

### 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		The Energy Awareness section of the DLR Tenants Awareness Handbook has been updated in 2020. An update on climate action for inclusion in the Local Authority Tenants Handbook is currently being prepared by the CAROs and will be finalised in early 2021. The aim is to produce a guidance note for Local Authority tenants in order to increase awareness of extreme weather events and to provide climate resilience information in addition to outlining some energy saving measures.	Ongoing
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# TRANSPORT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
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## ACTIONS CURRENTLY BUDGETED

### OPERATIONS

<b>T1</b>	Increase number of electric vehicles in the Council fleet	In the next 5 years	Ballyogan Operations Centre	# of EVs procured		Total number of EVs in 2019 was 17. No EVs were purchased in the second half of 2019. There were 4 EVs purchased in 2020.	Ongoing
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### PLANNING & PUBLIC REALM

<b>T2</b>	Reduce parking to provide for sustainable travel alternatives	In the next 5 years	Traffic	Reduction in on-street car parking numbers		2019: 4 car parking spaces for EV Parking on Marine Road and Crofton Road, 9 car parking spaces for 45 cycle stands, 31 car parking spaces allocated GoCar (mostly unmarked) 2020: 3 car parking spaces for 15 cycle stands, 60 car parking spaces for the Carysfort Avenue cycle route	Ongoing
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### ACTIVE TRAVEL & BEHAVIOUR CHANGE

<b>T3</b>	Promotion of road safety and active travel in schools	In the next 5 years	Traffic	# of road safety events and initiatives		<p>Bike Week events held in June 2019 including the Bike Fest family cycling event in Cabinteely Park and as schools art competition.</p> <p>The AXA Road Safety Show was delivered to 2,300 transition year pupils in October 2019 to improve road safety awareness through drama. The Council supported the delivery of cycle training in schools. In 2019, 1,455 pupils in 31 schools and in 2020, 278 pupils in 5 schools (Jan to March). A total of 73 school wardens assigned to schools to help children cross busy roads.</p> <p>The Council delivered cycle parking to 25 schools in 2019 and 2020. The Council has prepared a Cycling Bus Guide, Walking Bus Guide and a Travel Plan Guide for schools in 2020. In August 2020, the Council launched its Active School Travel and School Zone initiatives. 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 a number of schools across the County.</p> <p>The Council's trial School Zone initiative, undertaken in partnership with Carysfort National School, NTA and An Taisce, is implementing measures to prevent obstruction of school entrances and footpaths by vehicles, making it safer for those who walk and cycle to school. This will also include temporary traffic calming measures in the vicinity of the school. The learnings from this trial project can be rolled out to other schools across the County.</p>	Ongoing
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NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
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>2019: New traffic signal pedestrian crossings</p> <ul style="list-style-type: none"> <li>Sandyford Road at Kilcross Estate</li> <li>Goatstown Road at Our Lady's Grove schools</li> <li>Clonskeagh Road at UCD</li> </ul> <p>2019 Road Maintenance works programme:</p> <ul style="list-style-type: none"> <li>Footpath Upgrade Programme works completed to upgrade a footpath length of c. 5 km.</li> </ul> <p>2020: New traffic signal pedestrian crossings</p> <ul style="list-style-type: none"> <li>Carysfort Avenue pedestrian crossing</li> </ul> <p>2020 Road Maintenance works programme:</p> <ul style="list-style-type: none"> <li>Footpath Upgrade Programme works completed to upgrade a footpath length of c. 3.4 km.</li> </ul>	Ongoing
T5	dlr Sports Partnership organised walks	In the next 5 years	dlr Sports partnership	# of walks, # of people attending		44 walks organised by dlr Sports Partnership in 2019. 12 walks organised by dlr Sports Partnership in 2020.	Ongoing
T6	Permeability and connectivity in planning process	In the next 5 years	Transport Planning	Adopted development plan includes permeability		Objectives have been included in Local Area Plans and Major Developments. Objectives will also be factored into the preparation of the new County Development Plan.	Ongoing
T7	Develop and extend cycle network	In the next 5 years	Traffic	# km of cycle routes		<ul style="list-style-type: none"> <li>5 schemes completed in 2019</li> <li>COVID-19 Route Improvements (9km)</li> <li>COVID-19 Cycle Protection on existing routes (5km)</li> <li>COVID-19 Cycle Protection at junctions</li> </ul> <p>Ongoing cycling infrastructure projects: dlr received a funding allocation of €10 million from the NTA in February 2020, for cycling infrastructure projects and progress continues with 4 projects currently under construction.</p> <p>A further 13 other cycling infrastructure improvement schemes are progressing through the various stages of design and the Council is examining opportunities to fast-track elements of this programme for earlier implementation.</p> <p>July Stimulus 2020: The Council has received approximately €9 million of funding under the July Stimulus package for 65 schemes, to fund a range of cycling and walking projects across the County. The type of projects includes cycle protection schemes, improved footpaths and road surfaces, and improved cycle links through parks. In September 2020, the Council launched public engagement on three new proposed walking and cycling routes in the County, titled Sea to Mountains, Mountains to Metals and Park to Park. Further information on these proposed routes is available at: <a href="https://www.dlrcoco.ie/en/environment/active-school-travel">https://www.dlrcoco.ie/en/environment/active-school-travel</a>. A 5-year cycle network plan is currently being developed in conjunction with the NTA.</p> <p><b><i>This is a shortened action. Read the full text in the Appendix</i></b></p>	Ongoing
T8	Support the Greater Dublin Cycle Plan	In the next 5 years	Traffic	Plan supported in appropriate policy		This action is accounted for in the Council's Cycling Policy and see list of projects included under Action T7	Ongoing



# TRANSPORT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
T9	Cycle Training Programme in schools	In the next 5 years	Traffic	# of students trained		The Council supports the delivery of cycle training in schools as part of the DTTaS Cycle Right programme. 2019 - 1,455 pupils in 31 schools and 2020 - 278 pupils in 5 schools (Jan to March)	Ongoing
T10	Develop County bike sharing scheme	In the next 5 years	Traffic	# of bikes in County		Bleperbike currently has a licence to operate a stationless bike share scheme in the County, with permits for 25 bikes. Moby Bike currently has a temporary licence to operate an electric stationless bike share scheme in the County, with permits for 25 bikes.	Complete
T11	Cycle parking in public realm	In the next 5 years	Traffic	# of additional cycle parking spaces		191 cycle stands installed in 2019 (372 cycle parking spaces) 160 cycle stands installed in 2020 (320 cycle parking spaces)	Ongoing
T12	30 km/h speed limits	In the next 5 years	Traffic	# of roads with 30 km/h speed limit		30 kph speeds limits have been introduced on 752 roads and streets in the County in line with National Guidance	Ongoing
T13	Road maintenance improvements	In the next 5 years	Road Maintenance	Km of regional and local roads with improvement works carried out		2019 Road Maintenance works programme: <ul style="list-style-type: none"> <li>Major Works ('Roads' Programme) resulted in the reconstruction/resurfacing of a road length of c. 4.5 km.</li> <li>Minor Works ('Patching' Programme) resulted in a road area of c. 12,500 square metres being reconstructed/resurfaced or the equivalent of c. 2km of road.</li> <li>Footpath Upgrade Programme works completed to upgrade a footpath length of c. 5 km.</li> </ul> 2020 Road Maintenance works programme: <ul style="list-style-type: none"> <li>Major Works ('Roads' Programme) resulted in the reconstruction/resurfacing of a road length of c. 3.64 km.</li> <li>Minor Works ('Patching' Programme) resulted in a road area of c. 3,130 square metres being reconstructed/resurfaced or the equivalent of c. 0.5km of road.</li> <li>Footpath Upgrade Programme works completed to upgrade a footpath length of c. 3.4 km.</li> </ul>	Ongoing

## PUBLIC TRANSPORT

T14	Expand bus network in the County	In the next 5 years	Traffic	Work with NTA on Bus Connects		Delivery of bus services and bus routes is being progressed by the NTA as part of two Bus Connects projects in the County: <ul style="list-style-type: none"> <li>Stillorgan Road corridor (Bray to UCD)</li> <li>Merrion Road Corridor (Blackrock to the City)</li> </ul>	Ongoing
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 currently being progressed A new Dart station is being planned for Woodbrook	Ongoing








NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
T16	Expand car clubs in the County	In the next 5 years	Traffic	Regulation of car clubs and number of car club vehicles		A licence was issued to GoCar in 2019 to operate a car club in the County and permits were issued for 31 vehicles. Further permits will be issued in 2020.	Ongoing
T17	Expand EV network in the County	In the next 5 years	Traffic, Public Lighting	# of EV charge points		<p>Two new EV parking bays were introduced on Marine Road and two new EV parking bays were introduced near the East Pier. EV parking is also sought as part of the Development Management process.</p> <p>The Council is also represented on the Dublin Regional EV Steering Group including the four Dublin Local Authorities, Smart Dublin and the Dublin CARO (which 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.</p>	Ongoing
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		<p>Public Consultation was undertaken on the following Local Area Plans that contained objectives relating to sustainable travel:</p> <ul style="list-style-type: none"> <li>• Ballyogan and Environs LAP 2019 to 2025 – May 2019</li> <li>• Stillorgan Village Urban Framework Plan – March 2019</li> <li>• Old Connaught LAP 2019 to 2025 – Feb 2019</li> </ul> <p>Public Consultation was undertaken on the following Cycle Schemes:</p> <ul style="list-style-type: none"> <li>• Carysfort Avenue Cycle Route Options – February 2020</li> <li>• Clonskeagh Road Pedestrian and Cycle Improvements (UCD to Clonskeagh Bridge) August 2020</li> <li>• Wyattville Road Cycle Scheme (Phase 2) August 2020</li> </ul> <p>As part of the Active School Travel initiative 70+ submissions were received through the Council's Report It tool.</p>	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 <sub>2</sub> saved		DLR are currently reviewing and engaging with the limited suppliers available in Ireland to identify alternative electric models that meet the performance criteria for DLR's operations.	Not started
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# FLOOD RESILIENCE

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
<b>ACTIONS CURRENTLY BUDGETED</b>							
<b>FLOOD RISK MANAGEMENT</b>							
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		Quarterly meetings take place with neighbouring local authorities.	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		A DLR Coastal Defence Strategy Study was commissioned in 2010. This study is currently being reviewed 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. An introductory meeting with all parties in April 2019 and a follow-up meeting in April 2020. Additionally, the GSI presented their Coastal Erosion and Vulnerability Projects to CARO and LAs in September 2020.	Ongoing
F5	Implement coastal monitoring programme, map of vulnerable areas	In the next 5 years	Parks	Map produced		<p>The Office of Public Works are undertaking a pilot coastal monitoring project at a number of sites. This monitoring survey programme is focused at a local scale as opposed to a national or regional scale. At a national scale a new National Coastal Change Strategy Steering Group has also recently been set up to examine this issue. Monitoring stations (fixed surveying points) were installed by DLRCC in 2016 at 21 separate locations between the Old Bray Landfill (just North of Bray Harbour) and Seafield. These stations are surveyed typically yearly and also after storm events. These sites are all currently on Council land.</p> <p>Subject to permission, it is planned to install monitoring stations on private lands in 2021/2022. The installation of monitoring stations was one of the recommendations in the 2010 Coastal Strategy Study commissioned by DLRCC. Since monitoring commenced there has been insignificant cliff erosion/collapse apart from at the Old Bray Landfill where up to 2m was eroded in places during a recent storm event.</p>	Ongoing








NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	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		Climate Ireland in collaboration with the CAROs have proposed the development of a Risk Identification and Assessment Tool to be used to support local authorities and sectors in performing risk assessments. This tool is envisioned to be an online portal allowing users to access, view, and examine relevant spatial datasets and within a risk assessment framework. The portal will be delivered over a number of phases commencing in Q4 2020.	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		<p>The CARO have 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 App is currently in beta testing mode until late September. However, the capture of useful climate event data is dependent on LAs user submitting reports. Currently DLRCC is not trialing the WIRE app.</p> <p>Additionally, the CAROs are assessing what mechanisms are currently being used across local authorities to record the impacts and costs to local authorities of weather related/emergency response events so that costs required can be recorded and reported to relevant departments.</p>	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 Éireann 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"> <li>• How to manage “urban creep” and the increase in impermeable surfaces</li> <li>• Promotion of SuDS early in design process</li> <li>• Development of pluvial flood forecasting through use of point rainfall forecasting</li> <li>• Interim use of DCC “FLAG” meetings as a model for DLAs in relation to pluvial flood forecasting and response</li> </ul>	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 liaison/source funding from the OPW.	Ongoing





# FLOOD RESILIENCE

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	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 is currently updating 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	 	<p>The Council has worked with CARO on communication of Climate Action through events at a local level for example Happenings Screening in Blackrock Park in September 2019 and through formal media and social media communication channels.</p> <p>A Climate Dialogue was also held in Dún Laoghaire in November 2019 attended by community groups, local businesses and CARO and Council officials. A virtual public information event is planned at the end of August 2020 to advise the public on progress on the Deansgrange Stream Flood Relief project.</p> <p>In the meantime DLRCC/OPW have commenced the Kilbogget Park Flood Storage Scheme using the natural wetland valley.</p>	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 overall project will commence in Q4 2020 following the recent 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 overall project will commence in Q4 2020 following the recent appointment of Engineering and Environmental Consultants.	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
F15	Kilbogget Park flood storage	In the next 5 years	Water and Drainage, Parks	Project completed		Construction of this project was awarded at the start of August and commenced on site in mid-August 2020 with substantial completion planned for end December 2020.	Ongoing
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.	Ongoing
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.	Ongoing
F18	Marlay Park enhanced flood storage	In the next 5 years	Water and Drainage, Parks	Project completed		There are significant environmental challenges to this project which will require prolonged resource inputs before work can commence on the project.	Not started
F19	Sandyford Park flood storage	In the next 5 years	Water and Drainage, Parks	Project completed		This project will progress once the OPW include the project in their programme of works.	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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# NATURE-BASED SOLUTIONS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
<b>ACTIONS CURRENTLY BUDGETED</b>							
<b>OPERATIONS</b>							
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. The timeframe for this action is 2020 onwards.	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).	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. 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		DLR are the first local authority to carry out an exercise in scoring ecosystem services for biodiversity. The draft system requires further refinement having regard to the national scoring system, to be undertaken in partnership with the NPWS. Engagement with NPWS is planned for Q4 2020.	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 the National 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).	Not started










NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
<b>GREEN INFRASTRUCTURE</b>							
N8	Develop and implement pollinator support actions	In the next 5 years	Parks & Biodiversity	Strategy completed		A number of actions have been completed in 2019 and 2020 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 are Partners of the All-Ireland Pollinator Plan, DLR 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 has produced a web-map showing the location of all existing cycle routes in the County, including those in parks / greenways i.e. Slang River Greenway, Loughlinstown to Dean's Grange Greenway. 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 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 Fernhill Park where local children were involved in the design process of play spaces. The incorporation of natural play space into parks will be considered as part of the preparation of the new County Development Plan.	Ongoing
<b>TREE MANAGEMENT</b>							
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 will be undertaken as part of the new County Development Plan. These trees will relate to zoning objective 'To protect and preserve trees and woodlands'.	Ongoing
N13	Develop Dublin tree and plant guide	In the next 5 years	Parks	Completion of tree and plant guide		This action will be developed in partnership with the other Dublin local authorities and other stakeholders as relevant.	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) is being prepared and it is anticipated that the Draft Strategy will commence public consultation by end of Q4 2020.	Ongoing








# NATURE-BASED SOLUTIONS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
N15	Promote the Heritage Tree Hunt	In the next 5 years	Parks	# of site visits		The promotion of the Heritage Tree Hunt remains an important element in the current dlr TREES Strategy (2011-15). It is intended that this action will form part of the upcoming Tree & Urban Forestry Strategy (2021-31), which is currently in development.	Not started
<b>CONSERVATION AND PRESERVATION</b>							
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 Draft Biodiversity Plan has been climate proofed and the current draft will be presented to the Steering Group in Q3 2020. The Invasive Species Plan has been sent for technical review and will be sent to section leads for comment before end of Q4 2020.	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 climate review of the Dublin Bay Biosphere Conservation Plan is to be undertaken by the Dublin Bay Biosphere Partnership, which includes the three relevant Dublin local authorities and Dublin Port.	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 to 2021 due to COVID-19 pandemic.	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 in undertaking flood alleviation measures at Kilbogget Park, as part of the Loughlinstown Flood Relief Scheme. This project is funded by the OPW and the scheme aims to protect 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 the COVID-19 pandemic, awareness raising has been primarily online. In May 2020, the Council published a DLR Biodiversity Tour Online Booklet. The Council also hosted a range of events as part of its Biodiversity Events 2020 programme. A 'Biodiversity Ideas and Activities to do at Home or in Self Isolation' page is also hosted on the dlr website. Further awareness raising of native species will be factored into the public consultation of the new Biodiversity Plan.	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
N22	Bee Friendly Estates - promote planting of pro-pollinator flora	In the next 5 years	Parks, Environment	Increase in bee population	 	Due to the COVID-19 pandemic, promotion has been primarily online. In 2019, the Council launched its 'Slow to Mow' campaign, including an online brochure, to encourage native wildflowers back into the grass habitat. The Council also marked World Bee Day on May 20th 2020, and included information on pollinators as part of its Biodiversity Week Newsletter in May 2020.	Ongoing
N23	Update hedgerow study	In the next 5 years	Parks & Biodiversity	2007 hedgerow study updated		The update of the Habitat Survey 2008 has been prepared and is currently under review. A review of the desktop study and GIS of Hedgerow Survey 2007 has been delayed due to the COVID-19 pandemic and is expected to commence in Q4 2020.	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 2021.	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. The Council is also exploring funding opportunities for green roofs in Council developments, in conjunction with the Dublin CARO and the Department of Housing, Planning & Local Government.	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.	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.	Not started














# NATURE-BASED SOLUTIONS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	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.	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. In 2019, the Council launched its 'Slow to Mow' campaign, including an online brochure, to encourage native wildflowers back into the grass habitat. The Council also marked World Bee Day on May 20th 2020, and included information on pollinators as part of its Biodiversity Week Newsletter in May 2020.	Ongoing
N30	Support local communities through Lifelong Biodiversity Education	In the next 5 years	Parks, Biodiversity, Communications	# of participants, yearly reports		Due to the COVID-19 pandemic, awareness raising has been primarily online. In May 2020, the Council published a DLR Biodiversity Tour Online Booklet. The Council also hosted a range of events as part of its Biodiversity Events 2020 programme. A 'Biodiversity Ideas and Activities to do at Home or in Self Isolation' page is also hosted on the dlr website. Further awareness raising of native species will be factored into the public consultation of the new Biodiversity Plan.	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		This can be considered in conjunction with the preparation of the new County Development Plan, in partnership with relevant external stakeholders such as the National Parks & Wildlife Service.	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		<p>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. The current Department of Agriculture Afforestation and Woodland Improvement schemes finish in 2020.</p> <p>Nationally, under the current National Forestry Programme 2014-2020, afforestation rates have been an average of 5,500 ha per year. The National Climate Action Plan seeks to enhance participation rates, and inform land use policy to increase the benefits for climate, the environment, and rural communities.</p>	Ongoing





NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	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. Due to COVID-19 this action has been postponed to 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 of the preparation of the new County Development Plan, 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	 	The update of the Habitat Survey 2008 has been prepared and is currently under review. A review of the desktop study and GIS of Hedgerow Survey 2007 has been delayed due to the COVID-19 pandemic and is expected to commence in Q4 2020. DLR are the first local authority to carry out an exercise in scoring ecosystem services for biodiversity. The draft system requires further refinement having regard to the national scoring system, to be undertaken in partnership with the NPWS. Engagement with NPWS is planned for Q4 2020.	Ongoing
N36	Improve climate change resilience across DLR by changing our landscape management of green infrastructure including green spaces, roadside verges and streambanks 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.	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 hosts a Natural Capital and Ecosystem Services page on its website. In 2019 DLR produced an animation video titled dlr Biodiversity and Ecosystems, explaining the wide ranging benefits of biodiversity and ecosystem services.	Ongoing



# RESOURCE MANAGEMENT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
<b>ACTIONS CURRENTLY BUDGETED</b>							
<b>WASTE MANAGEMENT</b>							
R1	Monitor and enforce waste regulation	In the next 5 years	WERLA and Enforcement	Environmental Performance Assessment from EPA		The Council received an "Above Target " assessment from the Environmental Protection Agency (EPA) on its overall Environmental Enforcement Evaluation.	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		Surveys of some of the larger Council buildings have been undertaken and actions identified to improve waste management.	Ongoing
R3	Run staff recycling awareness campaign	In the next 5 years	Facilities Management, Corporate Services, Infrastructure and Climate Change	# of campaigns held		A number of waste prevention campaigns have been implemented for staff. A reusable water bottle and reusable cup campaign encouraged staff to avoid disposable single-use plastic. Recycling bins with clear signage are provided and maintained throughout Council buildings.	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		Through the Development Management process, additional areas for bring banks are identified and facilitated (the planning process). Additional areas are also identified by the Council by way of the Part 8 process.	Ongoing
R5	Participate in the Local Authority Prevention Network	In the next 5 years	Infrastructure and Climate Change	# of grants for waste-related projects		dIrl continues to actively participate in the LAPN programme. Applications for funding have been submitted and a waste prevention project was implemented in the Sandyford Business district under this scheme.	Ongoing
R6	Collaborate with the EPA's national waste prevention programmes	In the next 5 years	Infrastructure and Climate Change	# of people engaged		dIrl hosted the regional Master Composter course in 2019. A composting at home demonstration site was also constructed in Fernhill Park and Gardens.	Ongoing
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		dIrl continues to develop and implement waste prevention awareness campaigns. Projects in 2020 included campaigns on 'MyWaste.ie', Green Christmas, Halloween, Plastic Free July, Reuse Projects at Home, Composting at Home, Relove Fashion, Earth Day 2020, Hazardous Waste Collections and Mattress Amnesty. dIrl promote and support EMWRO projects (including Reuse Month), Conscious Cup Campaign and Refill.ie.	Ongoing
R8	Promote Reuse Month annually	In the next 5 years	Infrastructure and Climate Change	# of Council run events		The month of October has been designated as National Reuse Month. Organisations such as The Regional Waste Offices, Community reuse Network Ireland, the Irish Charity Shops Association, Free Trade Ireland, Recreate Ireland and the Rediscovery Centre have now joined forces to present the broader Ireland with a plan to reduce waste in 2020.	Ongoing
R9	Promote and support Circular Economy Initiatives	In the next 5 years	Infrastructure and Climate Change	# of initiatives supported		The Government has issued its Waste Action Plan for a Circular Economy 2020. The implementation of this Plan will have regard to local authority efforts. The Council has implemented a Relove Fashion Competition and an annual Christmas tree recycling campaign.	Ongoing









NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
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		The Council is continuing to maintain its support for the programme and the SMEs participating in it. The annual surveillance visits are being offered remotely now as a result of COVID-19.	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		The Council continues to promote resource efficiency and environmental awareness in schools. dlr continue to manage the Green-School programme locally, in association with An Taisce. Additional school-based actions include Tidy Schools, Recycled Christmas Decoration Competition, Relove Fashion and educational workshops.	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		The Council supports schools who choose to participate in the voluntary Green-Schools programme. Within the County, 113 schools are currently registered on the programme. 29 new Green-School flags have been achieved, to date, in 2020.	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 DLR Environment Grant and Community Environmental Action Fund (Local Agenda 21) provide financial support to local community groups. The 2020 Environment Grant funded twenty-two community based environmental projects, distributing the full available budget of €15,500.	Ongoing

**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		Smart Dublin has previously undertaken a SBIR challenge in relation to illegal dumping. The Council will continue to engage with Smart Dublin in the development of further SBIR challenges in the areas of anti-dumping and anti-litter.	Ongoing
R15	Implement anti-dumping and anti-litter initiatives	In the next 5 years	Infrastructure and Climate Change	# of campaigns, # of people reached		In 2020, the Council organised a free Mattress Amnesty Day and free household hazardous waste collection. 1,600 mattresses and 23 tonnes of hazardous waste were collected at these free events. Annual anti-litter campaigns are supported by the DCCA's annual Anti-Litter and Anti-Graffiti Grant. This funding supports anti-litter advertisements and programmes (e.g. Tidy Schools, Tidy Districts, Green-Dog Walker).	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 Council runs a Community Clean-up programme to support voluntary anti-litter actions. Equipment (bags, pickers and gloves) are provided and bags are collected after the event. In 2020, over 419 community litter-pick events were supported throughout dlr. The Council works closely with An Taisce. The National Spring Clean and Clean Coast programmes are promoted. In addition, as part of the An Taisce's Blue Flag criteria at Seapoint Beach, dlr work with local community groups to carry out beach litter picks. The Council also promote the 2 minute Beach Cleans during the bathing season and the An Taisce's "Love Your Coast Photography Competition" via social media platforms.	Ongoing



# RESOURCE MANAGEMENT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
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	 	<p>The Council's Tidy Districts Competition provides the Council with an opportunity to thank local volunteers who work tirelessly to improve their environment and help their communities flourish. This is a localised version of the national Tidy Towns competition. In 2019, thirty-five local Tidy Towns, Tidy Districts and Residents' Associations took part in the competition. The annual awards ceremony was held on Wednesday 11th September 2019 and a total of thirty prizes were awarded. The total prize fund for the 2019 competition was €8,800.</p> <p>Following the public health measures in 2020, the Council implemented a re-imagined version of the Tidy Districts Competition. While the competition itself did not proceed in 2020, the Council was keen to ensure that participating communities will not lose out on the support traditionally provided in the form of feedback and consultation which came about through the judging visits and opportunity to gain and share new ideas on initiatives they might take in their communities. The Council arranged a non-competitive Tidy Districts consultation for fifteen interested groups in June and July, with a focus on projects and initiatives that could be carried out in 2021.</p>	Ongoing
R19	Monitoring of Big Belly Bins in County	In the next 5 years	Cleansing	Reduced energy consumption of fleet, # of bins in County	 	<p>DLR'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.</p> <p>All Big Belly bins are also recorded on the bespoke application "Clean" for remote monitoring purposes and 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 the Bin Service. 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.</p>	Ongoing






NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
R20	Collaboration with Refill.ie to reduce single use drinking water bottles	In the next 5 years	Infrastructure and Climate Change	Feasibility assessed	 	The Council in conjunction with the Eastern Regional Waste Office continues to provide support to Refill for the ongoing development of the online Tap Map, of locations providing water and to promote the reduction in the use of single use plastic water bottles. dlr is also providing taps in some of the major public parks.	Ongoing
R21	Examine feasibility of a community fridge programme	In the next 5 years	Infrastructure and Climate Change	Feasibility assessed	 	The Council completed a scoping exercise in 2018 to install a community fridge in the County. The installation costs of the project were to be funded under the EPA's LAPN programme. However, the project was deemed unfeasible and a successful location was not identified. The project did not proceed.	Complete

### PROCUREMENT

R22	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		The development of this action would require further guidance from the Department of Public Expenditure and Reform and the Office of Government Procurement. There is scope to develop this action across the four Dublin local authorities in collaboration with other relevant stakeholders including the Dublin CARO. The EPA are expected to publish revised Green Public Procurement Guidelines for Public Sector in Q4 2020.	Not started
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### ACTIONS AWAITING BUDGET

R23	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 and will be finalised in early 2021. The aim is to produce a guidance note for Local Authority tenants in order to increase awareness of extreme weather events and to provide climate resilience information in addition to outlining some energy saving measures.	Ongoing
R24	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 in new residential development is addressed by way of the Development Management process, including the pre-application stage. Waste management measures on site are also addressed by way of a relevant Condition on the Grant of Planning Permission.	Ongoing

## CONCLUSION

One of the core values of the dlr Corporate Plan 2020-2024 is 'Climate First - Adopt a climate first approach to decision-making'. In this regard, the Council's Climate Change Action Plan 2019-2024 represents a shared outlook across all departments, to integrate climate action into the full range of its buildings, operations, services and functions. The Plan also reflects and showcases that dlr and other local authorities across Ireland, are best placed to lead local level efforts to combat both the causes and impacts of climate change. 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.

The progress to date showcases that the Council is enhancing its efforts to meet climate targets, but also to demonstrate continued leadership and encouragement to other sectors. An example of this relates to the Energy & Buildings area, dlr hosted the 2019 World nZEB Forum 'Climate Action through nearly zero energy buildings', with 330 participants across two days of events. The award winning dlr Lexicon also showcases high standards of environmental sustainability, including passive solar gain, natural ventilation and heat recovery.

With regard to public participation and climate action, the Climate Change Advisory Council Annual Review 2020 states, 'engaging the public and communities in relation to climate action should be an on-going process not a once off. Effort must also be made to reach beyond existing climate networks. Engagement with stakeholders and appropriate communication are important to build ownership and support for climate action'. (Climate Change Advisory Council, 2020)

Since the adoption of the CCAP, the Council has continued to engage citizens and other stakeholders across a range of climate action areas, in particular Nature Based Solutions, Transport and Resource Management. In this regard, Fernhill Park continues to be an exemplar for developing natural based solutions in the County. There is also further opportunities to engage with younger citizens, such as Dún Laoghaire-Rathdown Comhairle na nÓg, who voted climate change as one of their key topics to work on in 2020.

The COVID-19 pandemic has ongoing impacts across all aspects of society, including the services and functions of local authorities. The Council has demonstrated significant leadership and action in the enhancement of active travel modes during the pandemic, in particular walking and cycling. These projects include the Coastal Mobility Route, the Blackrock Village Renewal Project and the Active School Travel initiative.

The implementation and monitoring of the CCAP will be a living and evolving process; future Annual Progress Reports will also take account of new actions and other developments in the climate action arena. It is also acknowledged that the CCAP is one of a number of local authority level plans, and as such its implementation will have regard and input into, the preparation of other plans, such as the County Development Plan and the Local Economic and Community Plan (LECP). The CCAP will also take account of changes in national and European level legislation and policy, in particular the Climate Action and Low Carbon Development (Amendment) Bill 2020.



The Government's Climate Action Plan 2019 states, 'engaged and empowered public bodies can achieve more than just reduce their own emissions, they can stimulate and inspire action across wider society' (Government of Ireland, 2019).

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 enhancing the climate resilience of the Dublin Region, to 2030, 2050 and beyond.



*The dlr Lexicon*



*Dún Laoghaire-Rathdown Comhairle na nÓg*

# APPENDIX I: FULL TEXT OF SHORTENED ACTIONS

## TRANSPORT - ACTION T7

Schemes Completed 2019:

- Clonskeagh Road Cycle route at UCD 0.4km both sides
- Monkstown Road Cycle route 1.9km both sides
- Cycle diversion schemes at bus stops (Wyattville Road and at Greenfield Road)
- Nutgrove Avenue Minor Cycle improvements 0.8km both sides
- Kilmacud Road Lower/Upper/ South Avenue junction improvements

COVID-19 Route Improvements 9km:

- Coastal Mobility Route 3.6 km segregated 2-way cycle route and 0.9 km of quiet streets between Blackrock to Sandycove
- Blackrock Main Street contraflow cycle route 0.3km
- Dundrum Main Street contraflow cycle route 0.6km
- Dundrum Bypass Cycle Route 1.6km
- Carysfort Avenue between Stillorgan Park Road and Convent Road – 0.9km
- Cross Avenue between Glenvar Park to Booterstown Avenue – 0.4km
- Newtownpark Avenue between Fleurville Road and Temple Hill – 0.7km

COVID-19 Cycle Protection on existing routes 5km:

- Goatstown Road Cycle Protection Scheme 1.1km
- Benildus Avenue Cycle Protection Scheme 0.7km
- Roebuck Road Cycle Protection Scheme - near St. Kilian's German Schools 0.3km
- Enniskerry Road Cycle Protection Scheme near St. Marys National Schools 1.4km

COVID-19 Cycle Protection at junctions

- Taney Road/Churchtown Road junction (Luas Bridge junction)
- Kilmacud Road Lower approaching Taney Road junction (near the Goat Pub)
- Sandyford Road approaching Wyckham Way junction
- Kilmacud Road Upper and Drummartin Road junction
- Kilmacud Road Upper and St. Raphaela's Road junction
- Kilmacud Road Lower/Eden and Drummartin Road junction
- Blackthorn Road and Blackthorn Drive (near the Beacon Hospital)
- Blackthorn Road / Blackthorn Drive / Benildus Avenue Junction
- Churchtown Road / Beaumont Avenue Junction
- Barton Road East / Balinteer Road Junction
- Newtownpark Avenue and Rowanbyrn Road/Annville Terrace junction

- Deans Grange Road – Brookville Park junction
- Kill Lane approaching the SuperValu entrance

Ongoing Cycling Infrastructure Projects:

- dIc received a funding allocation of €10 million from the NTA in February 2020, for cycling infrastructure projects and progress continues with these schemes. The following projects are currently under construction:
- Cruagh Wood Greenway - Ballyogan Road to Cruagh Wood
  - Stillorgan Road cycle route near UCD
  - Drummartin Link Road/Kilgobbin Road cycle route
  - Monkstown Road cycle route red surfacing

A further 13 other cycling infrastructure improvement schemes are progressing through the various stages of design and the Council is examining opportunities to fast-track elements of this programme for earlier implementation.

- East Coast Trail (Merrion Gates to Seapoint)
- Brides Glen Luas Link
- Cherrywood Greenways Network
- Wyattville Road Phase 2
- Clonskeagh Road (UCD to Clonskeagh)
- Sandyford Business District Cycle Routes
- Stillorgan Park Road Cycle Route
- Nutgrove Avenue Phase 2
- N11 Brewery Road Junction improvements
- Stillorgan Village Improvement Scheme – Phase 2
- Glenamuck Distributor Road
- Blackglen Road/Harold's Grange Road Improvement Scheme
- Dodder Greenway (being led by Dublin City Council)

July Stimulus 2020

The Council has received approximately €9 million of funding under the July Stimulus package for 65 schemes, to fund a range of cycling and walking projects across the County. The type of projects includes cycle protection schemes, improved footpaths and road surfaces, and improved cycle links through parks. In September 2020, the Council launched public engagement on three new proposed walking and cycling routes in the County, titled Sea to Mountains, Mountains to Metals and Park to Park. Further information on these proposed routes is available at: <https://www.dIrcoco.ie/en/environment/active-school-travel>. A 5-year cycle network plan is currently being developed in conjunction with the NTA.



## APPENDIX II: REFERENCES

1. <https://www.dccae.gov.ie/documents/National%20Adaptation%20Framework.pdf>
2. <https://www.covenantofmayors.eu/en/>
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# APPENDIX III: 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 IV: 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

