



SOUTH DUBLIN 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 South Dublin 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 Strategic Policy Committee and the Elected Members of South Dublin Council.

FOREWORD/EXECUTIVE SUMMARY

South Dublin County Council approved the Draft Climate Change Action Plan on the 7th May 2019. The South Dublin Climate Change Action Plan 2019-2024 identifies 130 actions across 6 thematic action areas. Progress in the past twelve months has seen 90% of the actions in the plan either progressing or complete. The plan sets out how the Council will improve energy efficiency and reduce greenhouse gas (GHG) emissions, the plan commits to making South Dublin a more climate resilient county and to engaging with our citizens.

There are four key targets in the Climate Change Action Plan and progress on these is as follows:

1. A 33% improvement in the Council's energy efficiency by 2020.

South Dublin County Council has achieved a 34.4% energy efficiency improvement by the end of 2019 by way of improvements to public lighting, civic buildings, each of these being identified in the Annual Energy Reviews and monitored through the SEAI monitoring and reporting platform. South Dublin will now commence the work in achieving the next target of 50% improvement by 2030.

2. A 40% reduction in the Council's GHG emissions by 2030.

As a signatory to the Covenant of Mayors South Dublin has committed to a 40% reduction in GHG which is above the current national target of 30%. This target is monitored using a glide path in the Energy Efficiency Report and at the end of 2019 SDCC had achieved a 33.6% reduction. Projects such as the Tallaght District Heating project, transitioning our fleet to EV's and the continued improvement in energy efficiency will continue the work in reducing GHG emissions. South Dublin has also signed up to Breathlife WHO targets on air quality.

3. To make Dublin a climate resilient County by reducing the impacts of future climate change-related events.

Flood alleviation schemes on the Whitechurch and Poddle rivers have progressed to planning approval stage and these schemes will make these communities more resilient. Work on a Green Infrastructure Strategy, Biodiversity Plan, Mobility Strategy, and a Sustainable Drainage Strategy have also commenced and will contribute to make our county more resilient and enhance biodiversity. Climate change, and actions required are shaping the next County Development Plan, the drafting of which is currently underway. SDCC will continue to work in close collaboration with the other Dublin Local Authorities, the Dublin CARO, regional authorities, and national bodies to make South Dublin climate resilient.

4. To actively engage and inform citizens on climate change.

SDCC has engaged with the citizens of the County on various levels and through many networks including: climate workshops, training for businesses; and, community engagement on Green Infrastructure, our Biodiversity Action Plan and on many aspects of the County Development Plan. The council provides an annual Climate Innovation Fund of €300,000.

South Dublin County Council has made good progress in delivering the targets set in the CCAP the 33% energy efficiency target has been achieved, with a new target of 50% improvement in energy efficiency now in place. We will continue to work with the Elected Members, local communities, and businesses to achieve the goals set out in the Climate Change Action Plan.

*Teresa Walsh,
Director of Environment, Water and Climate Change,
South Dublin County Council.
October 2020*

INTRODUCTION

South Dublin County Council's Climate Change Action Plan 2019-2024 was approved on 7th May, 2019 in accordance with the National Adaptation Framework – Planning for a Climate Resilient Ireland 2018 (NAF)¹. The Plan was also completed in accordance with the requirements of the Covenant of Mayors (COM)² for Climate & Energy to which South Dublin County Council (SDCC) is a signatory.

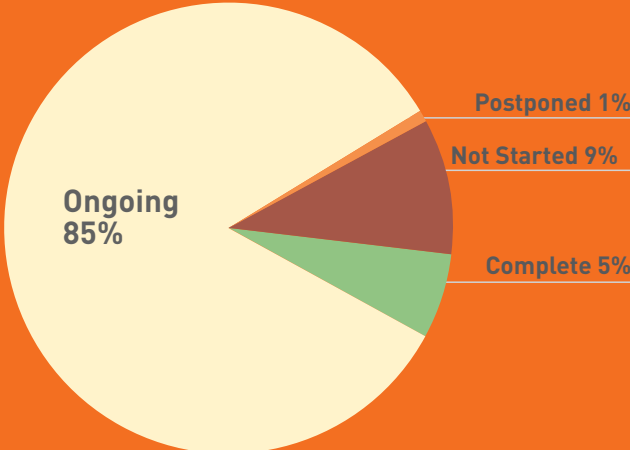
The Plan sets out four key targets and 130 actions that the Council will undertake in the areas of energy & buildings, transport, flood resilience, nature-based solutions and resource management. The Plan has been developed by South Dublin County Council in conjunction with the City of Dublin Energy Management Agency (Codema) and the Dublin Metropolitan Climate Action Regional Office (CARO). The Plan was subject to public consultation and Strategic Environmental Assessment processes. Annual progress reports are required as part of the NAF and COM processes. South Dublin County Council has committed to reviewing and reporting on this Plan annually.

At present 85.4% 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 N25 (Manage and monitor identified 'pollinator protection' sites) or F2 (Implement Flood Risk Management Guidelines), 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.

This report refers to the reporting period from 30th September, 2019; the approval date of the Plan to 31st October 2020. Refer to the action tables in this document for supporting information.



**130
ACTIONS**



ACTION AREA	COMPLETE	ONGOING	POSTPONED	NOT STARTED
Energy & Buildings	3 actions	19 actions	0 actions	5 actions
Transport	1 action	18 actions	1 action	1 action
Flood Resilience	1 action	19 actions	0 actions	2 actions
Nature-Based Solutions	2 actions	29 actions	0 actions	2 actions
Resource Management	0 actions	26 actions	0 actions	1 action
TOTALS	7	111	1	11

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**³ 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**⁴ 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 authorities⁵ 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**⁶, 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**⁷ 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



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**⁹ 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)**⁹ 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**¹⁰ 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 2020¹¹ 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**¹² 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**¹³ is expected in early 2021, building on the current strategy, which was adopted in 2013.

COVID-19 IMPACT

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 CO₂ emissions to decrease by 9.5 per cent in 2020¹⁴.

A report by the Environmental Protection Agency, Ireland in the Pandemic: Environmental observations¹⁵ 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 months¹⁶ 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 forums¹⁷. 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. South Dublin County Council had included additional secure bicycle locking points at key locations to aid mobility during the restrictions.

Unfortunately, the pandemic has had significant impacts on many people's incomes as well as income to the Council. This income deficit has had an effect on the progression of some actions within the CCAP. For example, some actions were postponed, site work and site visits were delayed or curtailed and public engagement and public consultations events have been postponed or cancelled. South Dublin County Council arranged the successful online delivery of Climate Action Workshops that had previously been presented in person.

A recent Local Government Management Agency (LGMA)¹⁸ 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. For example, SDCC developed a procedure during COVID restrictions to carry out remote inspections of waste facilities whilst maintaining the integrity of the inspection outcome. The inspection utilised drones, smart phones, video chats, video inspection and email.

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.



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 South Dublin SECAP overview can be found on the Covenant of Mayors website:
https://www.covenantofmayors.eu/about/covenant-community/signatories/action-plan.html?scity_id=15702



CODEMA UPDATE

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

SDCC has surpassed its 2020 energy efficiency target by reducing its energy use by 34.4% compared to the baseline. Codema has completed SDCC's 2019 Energy Review, which displays the glide paths for energy efficiency and GHG reduction with reference to the CCAP targets, and this was presented to senior management. Nineteen Display Energy Certificates (DECs) were generated for SDCC's 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

The Home Energy Saving Kit scheme is continuing to operate successfully in South Dublin's Libraries, namely in the Lucan, Ballyroan and County Hall (Tallaght) branches. South Dublin has recently been in discussions with Codema to develop more kits, which will include the new library in Clondalkin.

DUBLIN REGION ENERGY MASTER PLAN

Codema is developing the Dublin Regional Energy Master

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

EU PROJECTS

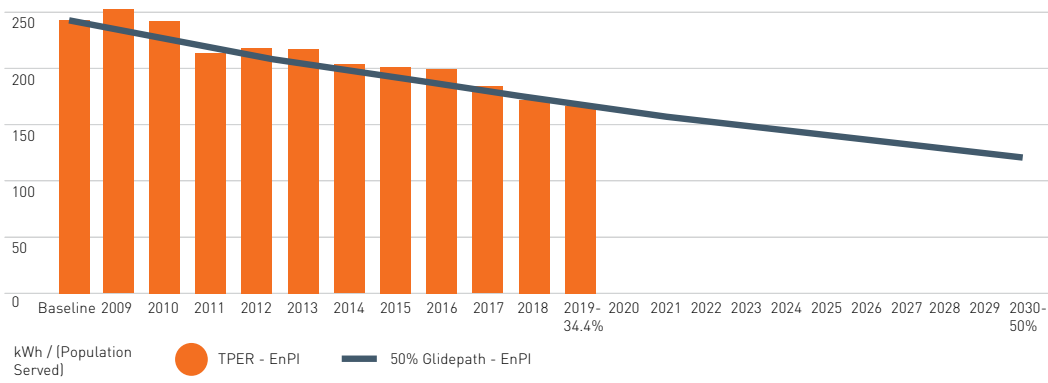
An area Codema has extensive knowledge and experience in is the application and execution of EU projects across a range of funding streams, at present we have several active projects, namely:

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.

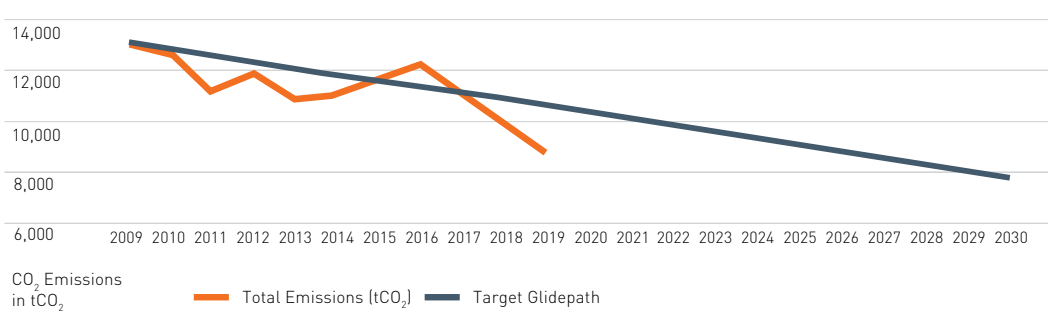
TOMORROW: Codema - together with the four Dublin Local Authorities - is developing a collaborative Transition Roadmap for the Dublin Region, which will motivate citizens, local businesses, public authorities and transport groups to work together towards the same goal of developing Dublin as a sustainable, 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.

Decarb City Pipes: Codema are partners in the Decarb City Pipes project which commenced in September 2020. This project is focused on the decarbonisation of

SDCC annual energy performance compared to 50% glidepath



SDCC annual CO₂ emissions Performance compared to 40% glidepath



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

Climate Action Regional Offices

- 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

Energy Efficiency Targets

In 2019, SDCC consumed 47 GWh of primary energy across its buildings, public lighting, and operations. The generation of this energy resulted in 8,687 tonnes of CO₂ being emitted.

In 2019, SDCC passed a significant milestone on its journey towards a future of sustainable energy use. One of the four main objectives of our Climate Change Action Plan 2019-2024 is to improve energy efficiency by 33% over the baseline figure by 2020. By the end of 2019, SDCC had measured improvements in energy efficiency of 34.4%. In 2019 SDCC also measured a 33.6% reduction in carbon emissions against the baseline figure. Our target is a 40% reduction in CO₂ emissions by 2030.

Electricity is the primary source of energy used by SDCC. 76% of our energy use is electricity and is consumed through public lighting, offices and facilities (including leisure centres). The other main sources and consumers of energy in SDCC are heating fuels (including gas), and transport fuels (diesel and petrol).

Public Lighting

The improvements in energy efficiency and carbon reductions were achieved by implementing a range of measures, including the installation of solar panels on County Hall and the introduction of fuel management systems. Upgrading our public lighting lanterns from

Sodium Oxide (SOX) to Light Emitting Diode (LED) has provided the most significant savings on energy use. In 2019, public lighting accounted for 44% of the primary energy consumed by SDCC amounting to 20.7 GWh, 3,622 tonnes of CO₂ and an estimated €1.3 million euro in cost. Phase 1 of the Public Lighting upgrade (2014-2020) included the upgrade of 9,689 55-watt SOX lights to LED units.

Public lighting upgrading is essential to SDCC's continued improvement in energy efficiency and reduction of GHG emissions. There are currently over 13,000 SOX lamps in SDCC's stock of public lighting. The manufacture of SOX public lighting is now being phased out, so replacement of these will become a priority. Phase 2 of the replacement programme commenced in September 2020 to upgrade 10,000 pre 1990's SOX fittings to LED. Phase 2 will run until 2025.

Office Lighting Upgrades

Replacement of the existing mix of office lighting with more efficient, long life LEDs progressed significantly in 2020. Approximately 1/3 of the office lighting in County Hall has now been upgraded to LEDs, reducing annual carbon emissions by 37 tonnes. The programme of replacement will continue into 2021 with further annual reductions of 13.3 tonnes of carbon and energy savings of over 40,000 kWh to be achieved.

Towards 2030

Having achieved our target of 33% improvement in energy efficiency by 2020, we must now focus on our new target



Public lighting upgrade



Social housing energy upgrades

of 50% improvement by 2030. This target is set out in the National Climate Action Plan 2019 and applies to the public sector. Public lighting upgrades have helped steadily reduce SDCCs energy use towards our 2020 target. Phase 2 of the replacement programme will play a substantial role in helping us meet our 2030 obligations on energy efficiency and GHG emissions. Our efforts will be significantly bolstered by several additional projects including the Tallaght District Heating Scheme.

Tallaght District Heating Scheme

The Tallaght District Heating Scheme will be the first large scale district heating network in Ireland. The innovative project, which received funding of €4.45 Million from the Government's Climate Action Fund will establish a sustainable district heating solution in the Tallaght area, providing low carbon heating to public sector buildings and residential customers. SDCC has partnered with a local data centre to capture the waste heat generated at the facility and repurpose it as a resource. The South Dublin District Heating Company, trading as Heatworks and wholly owned by SDCC will manage the network and seek to expand the project to customers across the Tallaght area. Opportunities for low carbon and sustainable heating will be available to customers of both new builds and older properties. Construction on the projects is due to commence in early 2021.

Energy Performance Contracts

Energy Performance Contracts are a contractual arrangement between a beneficiary and the provider of an energy efficiency measure. Energy consumption and financial savings are monitored and verified throughout the term of the contract and returns are apportioned between the parties as per agreements. SDCC have started

preliminary feasibility evaluations on Energy Performance Contracts (EPC) on a number of our facilities. Work on progressing EPCs will continue into 2021. By leveraging private sector investment and availing of grant aid, improved energy management (energy savings of between 30% and 40%), reduced carbon emissions and financial savings on energy and maintenance can be anticipated. SDCC expects to progress the rollout of EPCs at Tallaght and Clondalkin leisure centres.

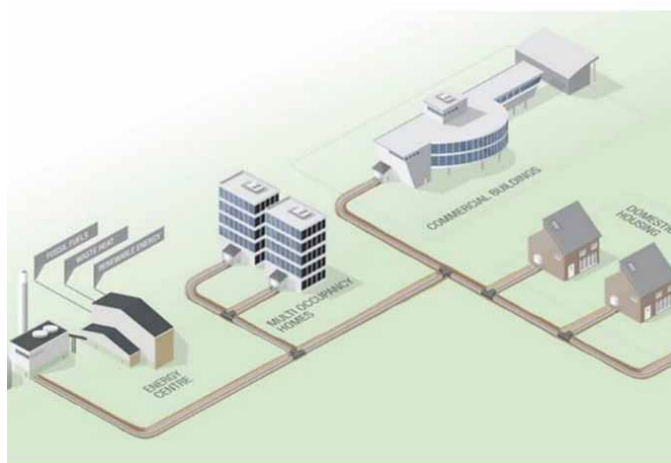
Social Housing Energy Upgrades

Phase 1 of the Energy Efficiency Fabric Upgrade Programme continued in 2020. Contracts to upgrade the insulation and ventilation of 557 social housing units from D-E rating to C1-B3 rating were awarded in 2020. Works included:

- loft and water storage tank insulation,
- installation of insulated loft door,
- external wall insulation (pumped bead),
- mechanical and passive ventilation systems.

Home Energy Saving Kits

Home Energy Saving Kits advise and help homeowners understand energy consumption and identify areas for energy upgrades. Significant savings can be made in household spending and energy consumption, combined with reduced greenhouse gas emissions and improved comfort by carrying out small improvements to home insulation and ventilation. Home Energy Saving Kits are available on loan to the public at Tallaght, Ballyroan and Lucan public libraries. Additional kits will be available at the new Clondalkin public library. Demand for the kits is typically higher coming into the winter months; however, due to Covid-19 restrictions on public libraries, lending rates in 2020 have reduced.



Tallaght District Heating Scheme



Home Energy Saving Kits

TRANSPORT

Transportation has been identified as one of the most significant contributors of GHG emissions within the South Dublin area. One of the main objectives of the Climate Change Action Plan is to develop sustainable transport options for the public within South Dublin, while encouraging active travel and improving mobility and safety.

In 2019, the SDCC transport fleet accounted for 9% of our primary energy use, amounting to 4.4 GWh of energy and the release of 1,044 tonnes of CO₂ into the atmosphere. This represents a 15.6% improvement in energy performance over the baseline. The improvement in efficiency of our transport fleet results mainly from ongoing improvements in engine technology and replacing older vehicles with newer models, however changing driver behaviour has also contributed to the improvements. SDCC have initiated an EcoDriver training programme to help our drivers refine their skills with the benefits of reduced CO₂ emissions and improve road safety. SDCC have made headway in the process of decarbonising our fleet. In 2018, a pilot project was set up to investigate the feasibility of electrifying our fleet. During the first 12 months that the electric vans were in use by South Dublin County Council, they had covered a total of 26,000 km, or 100km per van/week.

Estimated total cost savings by using electricity as an alternative to diesel are in the range of €2,000. In terms of CO₂ savings, it is estimated that equivalent sized vans running diesel engines, would have produced 3.5 tonnes

of CO₂, to travel similar distances. Ongoing renewal of our fleet will continue and electric or other zero carbon alternatives will be considered as replacements where appropriate.

Electric Vehicle Charging Strategy

The existing public EV charging infrastructure across South Dublin operates on a commercial basis by ESB E-Cars and other private companies. There are currently 26 charging points available to the public at 14 locations, with plans to install additional commercial charging points around the county. SDCC is working to ensure that new developments facilitate Electric Vehicle charging. Our new developments at Kiltipper Park and leisure facilities will be equipped with EV charging points.

In collaboration with the other DLAs, SDCC have commissioned a strategy for the rollout of Electric Vehicle Charging infrastructure across the Dublin region. A regional strategy will help ensure that a consistent approach is adopted when considering suitable locations and equipment to match the needs of our communities, ensure adequate rollout to keep ahead of the demand and equipment and protocols will be compatible with existing technology and back office software. The report will also be a key document for defining planning policy for future EV charging infrastructure developments and will outline a range of alternatives available to each LA with evaluations on commercial options and potential partnerships.

Cycleways/Greenways

SDCC has committed to making the County a national leader in providing a quality network of routes for cyclists.



SDCC's 5 Citroen Berlingo electric vehicles



Electric vehicle charging



The Cycle South Dublin plan is currently being developed to deliver on this. This plan will provide comprehensive guidance for the planning, construction and upgrading of cycle tracks and junctions for all vulnerable road users. It will identify existing cycle routes and future strategic links and will highlight over 200km of infrastructure to promote active travel options for both leisure and commuter users.

The following cycleway/greenway projects are in development:

- Dodder Greenway – 10km from Bohernabreena to the Grand Canal Dock via Tallaght is under construction with bridges at Bolbrook Centre, Kilvere and Bushy Park.
- Three Part 8 schemes are currently under design;
 1. R114, Firhouse Rd, from Spawell Bridge Rd. to Kilvere, segregated cycle track and upgraded junctions.
 2. Lower Dodder Rd., wider shared cycle/pedestrian path and one-way vehicular system.
 3. Knocklyon Link Road, proposed shared cycling pedestrian path.
- N81 Jobstown - 2km Cycling, Walking and Bus Facilities - Including junctions with Killinarden and Fortunestown Roads.
- Green Schools Walkability Audits Infrastructure - Improve pedestrian and cycle infrastructure to improve connectivity and safety with sustainable transport modes and to promote active travel.
- Grange Road Cycle Route – 1 km of improved cycle and bus facilities.
- Wellington Lane Walking and Cycling Route – 3km of improved pedestrian, cycle and public realm connectivity from the N81 Spawell to Kimmage Road West.
- Tallaght to Liffey Valley Cycle Route – 9.2km of Cycle commuter route from Lucan Village to Tallaght via Liffey Valley and Clondalkin. This route will be outlined under the Cycle South Dublin plan.
- Light Segregation Pilot Project – To install low cost barriers to protect cyclists on existing cycling routes.
- Canal Loop Greenway - Grand Canal to Royal Canal Greenway currently in planning.
- Grand Canal Gates Opening - Improvement of Grand Canal Greenway.
- N81 Integrated Transport and Planning Strategy – 7km Review transport function, landscaping schemes, future plans for N81, including pedestrian and cycling requirements.
- Belgard Square North to Cookstown Link Road – 0.3km link road and cycle facilities is under construction.
- Celbridge Link Road – 2.2km link road with cycle facilities, site preparation underway
- Airton Road Extension – 0.35km of roadway with cycle facilities at design stage preparing for Part 8.

Nationally, indicators show that cycling has increased as a result of Covid-19, and our own Cycle Counter installed on the Grange Greenway indicates that cycling on the route has increased by 72% since this time last year.

Urban Village Renewal and District Enhancement Programme

Work on the Templeogue Village Renewal initiative is expected to start in 2020. Works will include:

- upgraded cycleways and pedestrian facilities,
- off street car parking with support for EV charging,
- surface water attenuation (including SuDS measures),
- a pedestrian and dismounted cyclist link from the village centre to the Dodder Greenway.

The District Centre Enhancement Programme aims to improve local business/shopping centres within the community and to improve the green credentials of these district centres. This will be achieved through increased planting, provision of green spaces, bottle refill water stations, EV charging stations as well as improving street furniture to promote cycling and walking by providing bike stands and seating.

Mobility Hub

SDCC are working in to deliver a mobility hub for staff at County Hall. The pilot project will include an electric pool car and 3 E-bicycles to be made available to staff to use for work related journeys throughout the day. The scheme combines hardware with customised software developed to monitor use and provide a platform for booking the equipment. The project will facilitate staff who require transport during the day with the option of using alternative, more sustainable modes of commuting to and from work. SDCC are providing additional secure lockable bicycle parking facilities at County Hall and Clondalkin office partially funded by the Government's July Stimulus Plan to help to boost the Irish economic recovery in the wake of the Covid-19 crisis. The project implementation was delayed due to the uncertainty around the Covid-19 restrictions, however, delivery of the project is expected to be in 2020, users of the scheme will be subject to training and safety operating procedures will be put in place.

Bus Connects

South Dublin County Council are engaging with the National Transport Authority (NTA) to facilitate the delivery of the Bus Connects programme of 5 Quality Bus Corridors, Park and Ride facilities and network of safe cycling facilities. The transition to sustainable low emission vehicles will have significant benefits to air quality in our villages in towns.

FLOOD RESILIENCE

Work has been progressing to make South Dublin a more resilient region. This means adapting our county in order that we are better prepared for the extreme weather events and the negative effects of climate change. Preparing for flooding is a key part of this work. South Dublin County Council are working with the Office of Public Works (OPW) and Dublin City Council (DCC) to prioritise the delivery of flood alleviation schemes in order to make our county more resilient. There are currently two flood schemes (Whitechurch and Poddle) at planning stage awaiting a decision from An Bord Pleanála and a further scheme (Camac) is at an early study stage.

Flood Alleviation Schemes

River Poddle Flood Alleviation Scheme

The Poddle FAS with an estimated value of €8m will protect 920 properties when completed. The scheme is currently in Part 10 planning with ABP. Following the consultation period, 25 public submissions were received by ABP. A request for further information was received from ABP on July 27th, and the response was submitted to ABP on October 17th.

Design works are also progressing on items such as the proposed defence embankments, structural defence walls and a flow control structure in Tymon Park. Design has also commenced on an Integrated Constructed Wetland in Tymon Park along with the design of natural river

restoration methods. These designs are being carried out in conjunction with the Dublin Urban River Life project and are expected to be completed in 2020. Subject to a favourable decision from An Bord Pleanála construction is hoped to commence in 2021. Details for this scheme are available on www.poddlefas.ie.

Whitechurch Stream Flood Alleviation Scheme

The Whitechurch FAS with an estimated value of €2m will protect 170 properties when completed. Preliminary Design was completed in July and the scheme was submitted on August 4th 2020 to An Bord Pleanála for planning approval under Section 177AE of the Planning and Development Act 2000. Public consultation on the scheme concluded on September 17th 2020.

Public information events took place in September and as part of the consultation process a Virtual Consultation Room went live through the project website, this allowed interested stakeholders an easy interactive way to view the proposed scheme, and the associated environmental reporting. It is currently estimated that a planning decision by ABP will be made in early 2021. Full details of the proposed scheme can be found at <https://www.whitechurchfas.ie/>

Camac Flood Alleviation Scheme

Preliminary design commenced in November 2019 with an estimated completion date of Q3 2021. Data collection has been completed which included a groundwater survey,



River Poddle Flood Alleviation Scheme



Mayor of SDCC Cllr. Ed O'Brien launching the Whitechurch FAS online consultation portal

contaminated land desktop survey and the hosting of local information events. Stage 1 works have now moved on to the hydraulic and hydrological analysis of the river which includes a topographic survey of the catchment.

Environmental reporting on the scheme has also commenced with the relevant field surveys for birds, flora and fauna, bat, mammal and aquatic organisms underway. Progress on the scheme can be found at www.camacfas.ie.

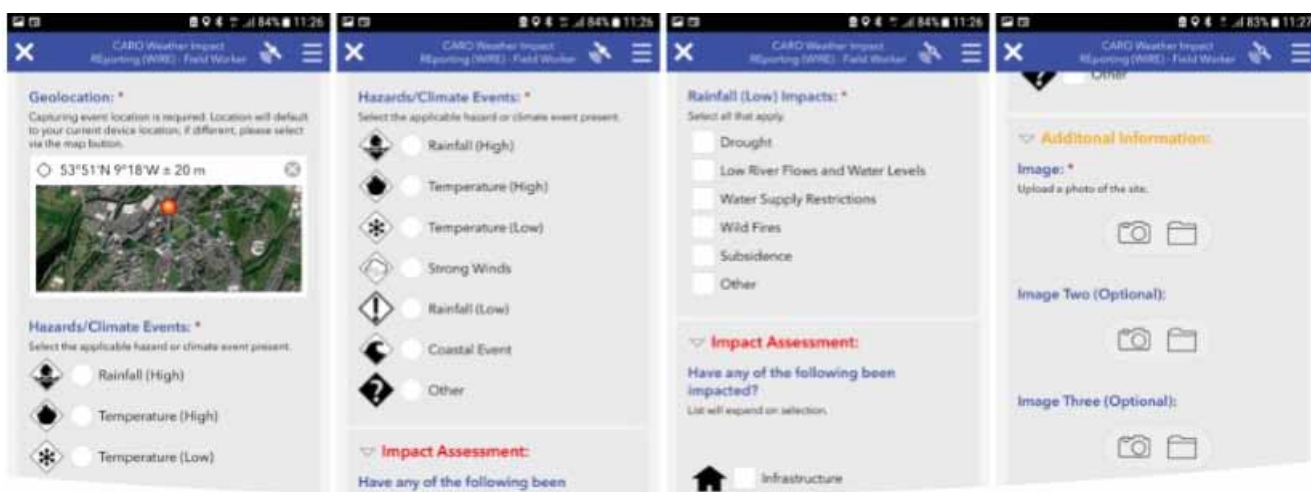
Weather Impact Register (WIRe) App

Capturing relevant data in the aftermath of a major weather or climate change event is often a challenge for Local Authorities. To facilitate the collection of data, the Atlantic Seaboard North CARO developed the Weather Impact Register WIRe app. The app allows LAs to log weather events by category of event and by impacts, e.g. high rainfall, surface water flooding, damage to infrastructure. The app can be operated on both mobile and desktop devices and facilitates offline data logging. Location is recorded by GPS and photographs to support records are facilitated. The app was developed using ArcGIS suite of software which is widely used in LAs for data collection, spatial analysis and configuring various in house and externally facing map viewers. South Dublin County Council is currently trialing the app.

Dublin Urban Rivers LIFE Project

The Dublin Urban Rivers LIFE (DURL) project aims to improve the water quality in South Dublin. SDCC is leading the project in collaboration with DLR and the EU LIFE Programme. The programme is expected to run for 4 years with 7,000 misconnection assessments being carried out in South Dublin. Domestic misconnections are caused by incorrectly plumbed home appliances which discharge into the rainwater drainage network and flow into our rivers rather than the foul sewer network. This results in water pollution and diminishes the natural habitat value of watercourses and impedes our progress to meet the requirements of the Water Framework Directive and the River Basin Management Plan for Ireland 2018-2021.

The DURL project has also identified locations for Integrated Constructed Wetlands (ICW's) for the purpose of capturing and treating stormwater contaminated by domestic misconnections in advance of discharge into storm watercourses. ICW's have the added value of attenuation capacity, carbon sequestration and improved habitats and biodiversity. The estimated cost of the DURL project is €2.6 million with EU funding of 50% available.



Weather Impact Register (WIRe) App

NATURE-BASED SOLUTIONS

Trusting in and collaborating with nature to provide solutions to many of the challenges we face is key to the Climate Change Action Plan. Encouraging nature to play a greater role in our developments will have a multiplier effect on the benefits returned. By employing softer engineering design methods, we can help nature establish itself whilst realising our objectives. SDCC is committed to incorporating natural solutions to drainage and attenuation challenges which help remove pollutants while encouraging biodiversity. By developing natural play spaces we support the development of creativity and healthy lifestyles and by controlling invasive species we encourage our native wildlife to flourish.

Wildflower Meadows

SDCC has signed up to the All-Ireland Pollinator Plan (AIPP) which outlines actions and objectives that the council must realise. The All-Ireland Pollinator Plan 2015 -2020 cites that one-third of Ireland's 98 bee species are threatened with extinction. Most of the pollination on the island of Ireland is carried out by bees, although other insects also play a role. Pollinators require food and shelter to thrive and the AIPP sets out several actions that everyone, including Councils, can take to help support pollinators. The main action undertaken by the Council in support of pollinators is to create wildflower meadows. Since 2017 a planned programme of meadowland creation has been underway. In 2020 an area over 137 hectares of wildflowers/biodiversity areas are being managed in

public parks. In 2019, Tymon Park won the green flag all-Ireland pollinator award for a town park.

Draft Biodiversity Action Plan

The Draft Biodiversity Action Plan presents a background to the diversity of nature in the County and to the challenges that face biodiversity and the County in a time of change. The document outlines a series of objectives and actions that aim to achieve the protection and enhancement of the County's biodiversity, while aiming to ensure that the County's residents, businesses and visitors continue to enjoy and benefit from the many services that nature provides.

The Draft Biodiversity Action Plan, 'Connecting with Nature', was presented for public consultation between July 3rd and August 10th 2020. As part of the consultation, SDCC hosted two online live information sessions on:

- Tuesday 28th July
- Thursday 30th July

Green Infrastructure Strategy

South Dublin County Council has engaged a team of Planning, Environmental and Landscape Consultants to develop a Green Infrastructure and Parks and Public Open Spaces Strategy for the County. The Green Infrastructure Strategy will form the basis for the identification, protection and promotion of Green Infrastructure across South Dublin as well as providing a structure for the long-term management, enhancement and expansion of the Green Infrastructure network and projects across urban



Play spaces



SuDS project at Kiltipper Park



and rural areas. Parks and open spaces are a key asset within the Green Infrastructure Network and they also provide for active and passive recreational amenity for the public. Green Infrastructure is a vital asset within an urban environment and contributes to physical and mental wellbeing as well as providing a social outlet for the public.

Play Spaces

SDCC recently completed work on a PlaySpace at Collinstown Park. The PlaySpace Programme aims to provide children with the opportunity to develop their play around what is available and adaptable in their environment. The Collinstown playground has been designed to fit into the parkland landscape incorporating a wide range of equipment and natural play features which are particularly important for younger children to encourage physical activity and to develop their imaginations.

Other PlaySpaces have been developed in Griffeen Valley, Tymon Regional and Tymon Limekiln Parks. The PlaySpace programme will be followed up with the development of youth led TeenSpace initiative to delivered over the next number of years.

Sustainable Drainage Systems (SuDS) project at Kiltipper Park

Kiltipper Park is one of South Dublin County's hidden gems, located between city and country, nestled in the foothills of the Dublin Mountains. Kiltipper Park's potential as an ecological park will be maximised. Phase one of the

works at Kiltipper Park commenced in 2019, delivering the first section of the Dodder Greenway facilitating sustainable travel in a parkland setting. The development included, construction of a shared route (pedestrian and cyclist), landscape planting & rejuvenation, toucan crossings, public lighting and traffic calming at the northern end of the park. The car park construction incorporates a sustainable drainage system to manage surface water on the site. The landscape element of the project included the reintroduction of native species of hedging and trees throughout the park.

Sustainable development and Green Roof at Sports Pavilion Dodder Valley

A sports pavilion construction programme is underway as part of SDCC's Sports Pitch Strategy. The recent completion of a new pavilion at Dodder Valley-Old Bawn Park showcases SDCC commitment to sustainable design solutions. The pavilion has been carefully designed to blend into the park and to be a robust element at this location. Space and water heating are delivered sustainably through an air to water heat-pump system which can also be reviewed and monitored remotely. The design incorporates a climate friendly green roof and sustainable drainage systems (SuDS). Swales draining to the surrounding landscape enable surface water to be diverted from the existing drainage network and filtered back into the ground. Under the programme, additional green roofs and sustainable solutions will be developed at Griffeen Valley pavilion and Corkagh Park pavilion.



Sports Pavilion at Dodder Valley

RESOURCE MANAGEMENT

The careful management of our resources is important to minimise the amount of consumption and associated waste generated. Segregation of waste allows materials to be reassigned as resources and to re-enter the cycle as new products. Reducing our reliance on single use plastic items eliminates non-biodegradable materials from the environment. SDCC continues to monitor and review the use of resources in its own operations and develops awareness campaigns for communities to help them understand and enjoy the benefits of reducing waste.

Eliminating Single Use Plastics

South Dublin County Council is committed to eliminating single use disposable items from its buildings and organised or licensed events. We have given our support to the Conscious Cup and Contactless Coffee campaigns and introduced the Go2Cup programme in our offices.



Public Water Fountain at Rua Red, Tallaght

Public Water Access Points

As a measure to reduce the amount of single use plastic being acquired and disposed of in South Dublin, and also to encourage a move away from private car use to a greater public participation in active travel options including walking and cycling, SDCC have installed 9 water stations in high trafficked public spaces in 2019. People are encouraged to take reusable bottles to the stations for refills. The stations have been located to facilitate rehydration at locations where sports and recreation take place. Water stations were located at;

- Clondalkin Village,
- Griffeen Park,
- Lucan Village,
- Rathcoole,
- Rathfarnham Castle,
- Rua Red, Tallaght,
- Tymon Park North,
- Tymon Park South,
- Waterstown Park.

To date, more than 25,000 litres of water have been dispensed from the units, eliminating the need for up to 50,000 plastic bottles. Following the success of the pilot project, an additional 5 water stations will be installed in 2020.

Arthurstown PV Project

In August 2020, CoDEMA presented an options report to South Dublin County Council outlining available options to develop a renewable electricity project at the disused Arthurstown Landfill Site. The primary aim of the project is to generate a sufficient supply of renewable energy to cover the site demands (i.e. daily treatment of 30m³ of leachate and ancillary site operations). This energy demand could be managed with a 75kW zero-export project. A secondary aim is to maximise the potential of the site to deliver a commercially viable renewable energy project. For both aims, a solar photovoltaic solution is seen as the most suitable technology. Initial indications reveal that the site has potential for a 5 MW commercial PV farm.

CITIZEN ENGAGEMENT

Citizen engagement was identified as a separate action area in SDCC's Climate Change Action Plan. One of the key targets in the CCAP is to 'Actively engage and inform our citizens on climate change'. Through valuable development work carried out by our liaison officers, our consultations, workshops and events, SDCC has forged strong bonds with our communities and established a platform for discussion and collaboration.

SDCC occupies a role that demands leadership by example and our aim is to encourage and support our citizens and businesses with information and training on climate action, energy management and waste reduction measures that will help them become leaders within their communities. Since the launch of the Climate Change Action Plan, we have actively engaged on climate change concerns with many of our local groups including our Tidy Towns Committees, Comhairle na nÓg and our business communities.

Climate Action Workshops

In 2020, SDCC engaged the services of ESD training to deliver a series of workshops on climate action to community groups. The workshops were designed to engage and interact with individuals and groups on climate change issues and measures that can be taken at a local level to make a difference in personal and community greenhouse gas emissions. Originally the workshops were held in community centres, however, following the onset of Covid-19, delivery of the workshops was moved to online.

Sustainable Business Workshops

SDCC is working with local business and SME's to develop a sustainable business community within the County. A training programme and fund has been established to facilitate businesses with on-site resource efficiency assessments and toolkits to help reduce waste and improve efficiency. Businesses are encouraged to participate in networking events to help disseminate knowledge and experience and become climate action leaders within their own communities.

Sustainable Energy Communities (SEC)

SDCC will work with Codema to support and encourage our communities to engage with the Sustainable Energy Communities programme developed by the SEAI. The programme presents communities with the chance to actively engage in energy management at a local level and opportunities to develop projects that deliver sustainable solutions to their local energy demands.

GAA Green Clubs Programme

SDCC will also work closely with the Dublin CARO on the roll out of the new GAA Green Clubs programme in supporting clubs in our county.

Let's Talk CLIMATE action workshop

Five half day Climate Action workshops for South County Dublin communities

Event Details

- Workshop 1**
Tuesday, 25 February 17:00
Brookfield Youth and Community Centre
- Workshop 2**
Saturday, 7 March 9:30 AM
Rathcoole Community Centre
- Workshop 3**
Tuesday, 10 March 6:30 PM
South Dublin County Council
- Workshop 4**
Thursday, 12 March 6:30 PM
Bawnogue Youth and Community Centre
- Workshop 5**
Thursday 26th March 9:30 AM St. Mark's House Goodstown Lane Talaght

Workshop

This three hour workshop for individuals and community groups in South County Dublin will help communities better understand the need for climate action at a local level and build local climate knowledge in the community.

Your Community

To book a place on one of the workshops – email ncarton@sdublincoco.ie with your preferred workshop your name and your contact details.

Climate action workshops

















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 Energy Master Plan for the Dublin Region	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.</p> <p>There have 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 we can incorporate into the model. 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	Develop Public Lighting Master Plan	In the next 5 years	Land Use, Planning & Roads Dept (LUPT) Public Lighting	Plan developed, # of lights upgraded	 	Phase 1 of upgrade programme (2014-2020) complete (9,689 55w SOX replaced with LED). Phase 2 (2020-2014) of public lighting upgrade to LED has been initiated.	Ongoing
E3	Prepare South Dublin Sustainable Energy and Climate Action Plan	In the next 5 years	Codema	SECAP complete	 	SDCC's SECAP was completed in Q3 of 2019. The CoM SECAP is based on the South Dublin CCAP and the South Dublin 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. The South Dublin SECAP overview can be found on the CoM website: https://www.covenantofmayors.eu/about/covenant-community/signatories/overview.html?scity_id=15702	Complete
E4	Evidence-based Climate Change Chapter in <i>County Development Plan 2022-2028</i>	In the next 5 years	LUPT Senior Planner, Planning	Chapter with policies and development management standards	   	South Dublin County Development Plan 2022-2028 is currently being prepared. Climate Change will be an overarching theme in the CDP. GI and Open Space strategy, SFRA, Biodiversity Action Plan, SuDS Guidance, EV charging strategy documents are currently in development to support the CDP	Ongoing
E5	Evidence-based Climate Change Chapter in <i>Tallaght Town Centre Local Area Plan</i>	In the next 5 years	LUPT	Climate change chapter in Local Area Plan	   	The elected members of South Dublin County Council resolved to make the Tallaght Town Centre Local Area Plan on 8th June, 2020. The Plan has been in effect since 20th July, 2020. Chapter 7 of the Tallaght LAP is dedicated to Climate Change: Mitigation and Adaptation.	Complete



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
ENERGY EFFICIENCY & RENEWABLES							
E6	Comply with obligations for local authorities set under S.I. No. 426/2014	In the next 5 years	Architects, County Architect	Compliant with S.I. No. 426/2014		Initial Energy Audits for SDCC Buildings were completed. Detailed Energy Audit for County Hall and Clondalkin Offices to be completed	Ongoing
E7	Display Energy Certificates for SDCC's public buildings	In the next 5 years	Codema, Architects	# of DECs generated for Council buildings	  	In September 2020, Codema published 18 Display Energy Certificates for SDCC buildings over 250m ² and frequently visited by the public. The certs were sent 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
E8	Annual Monitoring and Reporting to SEAI	In the next 5 years	Codema	SDCC's energy data uploaded to SEAI M&R system	 	The M&R process was completed for 2019. SEAI's 2019 Public Sector report is due out in January before the Public Sector Energy Conference. Preliminary data indicates that SDCC have reached their 2020 energy efficiency target of 33% one year early. With new energy efficiency targets released by the government SEAI are currently looking at updating the M&R methodology.	Ongoing
E9	Total emissions in South Dublin updated every two years in accordance with the EU Covenant of Mayors for Climate and Energy	In the next 5 years	Codema	Baseline updated	  	Total energy use and emissions will be updated every two years for South Dublin County Council and every five years for South Dublin County (in line with the publication of the Census results). The current iteration is complete.	Ongoing
E10	The Council Energy Review will include a glide path illustrating the energy efficiency and GHG emission targets for the Council up to and including 2030	In the next 5 years	Codema	Glide path included in review	  	The 2019 South Dublin County Council Energy review was presented in August 2020. The energy review includes a glide path on Energy Efficiency and GHG emissions, Gap to Target and workplan outlining key projects that will ensure that South Dublin County Council will achieve its Energy Efficiency and Reduced Greenhouse Gas emission targets by 2030. All subsequent energy reviews will include this graph with up to date figures.	Ongoing
E11	Development of yearly Energy Reviews for SDCC	In the next 5 years	Codema, Architects, Environment, Water & Climate Change (EWCC)	Energy Review published, # of recommendations implemented	 	The 2019 South Dublin County Council Energy review was presented in August 2020. The report highlights that South Dublin County Council achieved a 34.4% improvement in Energy Efficiency in 2019, surpassing its 33% by 2020 target. The review clearly demonstrated where energy is used within the SDCC's significant energy users, what drives their consumption, and where the greatest energy saving potential is. The review also identifies where SDCC is currently in relation to public sector energy targets, and what areas need to be addressed in order to meet these targets. In addition, this year's energy review also looks at the new energy efficiency target of 50% energy efficiency improvement by 2030 and what the Council has planned to achieve this. It also looks at the Council's current situation relating to the absolute carbon reduction target of 40% by 2030.	Ongoing








ENERGY & BUILDINGS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
E12	Development of the Tallaght District Heating Scheme	In the next 5 years	Architects, EWCC	# of buildings connected		The Tallaght District Heating Scheme is progressing. Contracts with data-centre and Energy Service Company (ESCO) have been agreed and are ready to be signed. Construction to commence in due course.	Ongoing
E13	Retrofits of the Council's housing stock	In the next 5 years	Architects, Housing	# of housing units upgraded		Phase 1 of the Energy Efficiency Retrofitting Programme 2018-2020, as operated by the Department of Housing, Planning and Local Government, is continuing in 2020. Mini Tenders 26-31 have been progressed in 2020 to improve the BERs of 557 Council houses from D-E rating to C1-B3 rating. Works included: <ul style="list-style-type: none"> • loft and water storage tank insulation, • installation of insulated loft door, • external wall insulation (pumped bead), • mechanical and passive ventilation systems 	Ongoing
E14	Energy efficiency works in Council-owned and operated buildings	In the next 5 years	Architects	# of upgrades carried out		Energy efficiency works in County Council owned buildings are progressing. Particular reference can be made to the ongoing programme of upgrading office lighting to LED. Other projects include design and development of NZEB and installation of renewable energy systems.	Ongoing
E15	Ongoing upgrading of lights in County Hall to LEDs	In the next 5 years	Architects	# of LEDs installed		Phase 1 of retrofitting LEDs in County Hall has been completed with a calculated annual saving of 37 tonnes of CO ₂ emissions. Phase 2 of the programme has been approved for completion and will reduce energy consumption by a further 40,189 Kwhrs and GHG emissions by 13.3 tonnes annually. Work is ready to commence.	Ongoing
E16	Energy Performance Contract carried out in Tallaght and Clondalkin Leisure Centres	In the next 5 years	Architects	EPC awarded, measurement and verification of savings		Preliminary research and feasibility study has been carried out. Initial documentation is being prepared.	Ongoing
E17	Replace 4,000 SOX lamps with LEDs	In the next 5 years	LUPT, Public Lighting	# of SOX lamps replaced with LEDs		Phase 1 of the 55 W SOX replacement programme (2014-2020) has been completed. 9,689 SOX lighting units have been replaced with more efficient LEDs. Phase 2 proposes to continue the programme by replacing 2,000 units per annum.	Complete




RESEARCH & INNOVATION

E18	Expand and develop Small Business Innovation and Research (SBIR) programme	In the next 5 years	Local Enterprise Office (LEO)	Energy and climate change challenges identified for SBIR challenges		South Dublin County Council is partnering with DCC and Smart Dublin on the delivery of Phase 2 of Smart Mobility Hub. The initiative was developed in association with SBIR and Enterprise Ireland.	Ongoing
E19	South Dublin County Council is committed to participating with the RIAI, in particular the sustainability task force, in seeking new and innovative approaches to climate action in the built environment	In the next 5 years	Architects	# of meetings with task force		Not started	Not started














NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
E20	Identify sites for trialling renewable energy projects, including solar PV and geothermal technologies	In the next 5 years	EWCC, Public Realm, Architects	# of sites identified		<p>South Dublin County Council has identified 58 buildings under its control that may be suitable for renewable energy projects. A list of 13 buildings was submitted to the DCCAE as part of a regional proposal for funding under the Climate Action Fund 2019. The proposal includes installation of solar panels, green roofs and LED lighting upgrades where suitable.</p> <p>South Dublin County Council has identified the site at the disused Arthurstown Landfill. A report has been prepared to investigate the potential to develop a renewable solar energy project at the site. Recommendations include a 2-phase approach, to include;</p> <ul style="list-style-type: none"> • An initial 75kw project to cover the base load requirements of the leachate treatment plant, • A subsequent 5MW commercial PV farm developed as a community led project. <p>SDCC are also engaging with the SEAI and Codema to promote the Sustainable Energy Communities scheme, which will support community-based sustainable energy projects.</p>	Ongoing
E21	The Council will investigate the lifecycle assessment of traditional and new construction methods for residential projects in Dublin	In the next 5 years	Architects, County Architect	# of assessments completed	  	Not started	Not started
E22	In all building projects, new build or retrofit, Swift Bricks or other nesting sites for swifts will be provided where practicable. The presence of swift breeding sites will be identified to ensure that known breeding sites are not lost as a result of construction work	In the next 5 years	Architects, Housing Maintenance	# of nesting sites provided	 	SDCC's Architectural Services department has installed boxes and roosting sites for bats, birds of prey and smaller garden birds on several building conservation projects.	Ongoing

ENERGY AWARENESS

E23	Monitor and develop the Home Energy Savings Kit scheme in SDCC libraries	In the next 5 years	Library Service	# of kits in branches, borrowing rates in libraries	  	SDCC have 6 Home Energy Saving Kits located in the Tallaght Library, Clondalkin (Old Library), Ballyroan Library and Lucan Library. Kits are typically lent out for a period of 2 weeks. Initial interest in the kits was high and waiting lists developed. Generally, kits are more in demand in Autumn/Winter. Access to the kits was effected by closure of the libraries due to Covid 19. Records indicate that the kits were checked out 10 times in 2020. Additional locations for lending kits are being investigated.	Ongoing
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ENERGY & BUILDINGS

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
ACTIONS AWAITING BUDGET							
E24	Assess feasibility of additional low-carbon district heating networks: Clonburris and Grange Castle	In the next 5 years	Architects, LUPT	Study completed	 	SDCC established a special purpose vehicle 'Heat Works' to advance the District Heating Programme. Additional low carbon district heating networks at Clonburris and Grange Castle have been identified as priority locations.	Ongoing
E25	Expand housing assistance programme to include tenant energy awareness	In the next 5 years	Housing	# of tenants provided with energy saving tips	  	Not started	Not started
E26	Develop maintenance and condition survey programmes for Council-owned historic and ancient monuments that are informed by climate change impacts	In the next 5 years	Architects	Programme developed	  	Not started	Not started
E27	Conduct research and seek to develop Council-based case studies on appropriate and sensitive retrofitting/energy upgrading of traditional buildings to inform works both to Council-owned properties and to guide private owners	In the next 5 years	Architects	Report produced	  	Not started	Not started



TRANSPORT



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

OPERATIONS


T1	Implement transport energy management system	In the next 5 years	EWCC	System implemented		SDCC have implemented a fuel management system to monitor fuel consumption associated with fleet. GPS monitoring also provides information relating to vehicle activity. SDCC have initiated an Eco Driver training programme, to educate drivers on fuel management techniques, which help reduce emissions and improve road safety.	Complete
T2	Ongoing replacement of Council vehicles with more energy-efficient alternatives, including EVs	In the next 5 years	EWCC	# of vehicles replaced		SDCC have included 5 Electric Vans in its fleet (approx 1.5% EV). Programme of fleet replacement is under review, current replacement rate is approx 30/annum. EV alternatives will be considered for all replacements.	Ongoing
T3	Use mobile canteens with operational crews	In the next 5 years	EWCC	# of canteens trialed		Mobile Canteen have been trialed on a pilot scheme. The trial has been suspended due to Covid-19 SD restrictions.	Post-poned
T4	Promotion of Cycle-to-Work Scheme to Council staff	In the next 5 years	LUPT	# of staff availing of scheme		SDCC encourage staff to participate in the Cycle to Work Scheme. Promotional events held throughout the year including during Bike Week. In 2019, 34 members of staff availed of the scheme and in 2020 31 people participated.	Ongoing

PLANNING & PUBLIC REALM





T5	Strengthen traditional villages by improving the public realm through enhancement of green infrastructure measures and sustainable transport linkages	In the next 5 years	LUPT	# of village improvement schemes		SDCC is working to strengthen traditional villages through improvements to the public realm and enhancement of green infrastructure and sustainable transport links. In 2020, the Templeogue Village Renewal Scheme was initiated. Works include upgraded cycleways, pedestrian facilities, off-street carparking, EV charging infrastructure, surface water attenuation, and tree pits. A pedestrian and dismounted cyclist link shall be provided from the village centre to Riverside Cottages to the Dodder Greenway. The District Centre Enhancement Programme aims to improve local business/shopping centres within communities. A key objective is to improve the green credentials of the district centres and will include increased planting, provision of green spaces, water refill stations, recycling facilities, EV charging points and improvements to street furniture to promote cycling and walking.	Ongoing
T6	Regular maintenance of regional and local roads	In the next 5 years	EWCC	# of complaints regarding obstructions, blocked gullies, etc.		Road sweeping contract is managed by EWCC. It includes the servicing and maintenance of 48,000 gullies per annum or 4,000 per month. 36,000 gullies have been serviced by end of September 2020.	Ongoing



TRANSPORT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
T7	The Council will undertake an assessment of the number of existing and potential future electric vehicle charge points in its jurisdiction	In the next 5 years	EWCC	Report produced		<p>In collaboration with the other DLAs, SDCC has commissioned a report and strategy for the rollout of Electric Vehicle charging infrastructure across the Dublin region to ensure that a uniform approach is adopted when considering suitable locations; to match the needs of our communities, to ensure adequate facilities to keep ahead of the demand and equipment that will be compatible with existing technology and back office software. The report will also be a key document for defining planning policy for future EV charging infrastructure developments. It will outline a range of alternatives available to each LA with respect to commercial options and possible partnerships and making recommendations on pricing strategies that are in line with existing market options.</p> <p>It is anticipated that SDCC will proceed with procurement procedures to deliver on the accepted recommendations of the report and avail of the SEAI grant for the installation of EV charging points. 1st draft received October 2020. Final Draft to be prusing data from ESB networks.</p>	Ongoing

ACTIVE TRAVEL & BEHAVIOUR CHANGE

T8	Improve road safety at schools with additional school wardens	In the next 5 years	LUPT, Road Safety Officer	# of school wardens		<p>South Dublin County Council currently has 94 permanent school wardens and 20 temporary relief wardens. Additional safety measures including cycle safety training is carried out by the Road Safety Officer.</p> <p>SDCC has implemented Cycle Bus schemes for primary schools. Additional measures including 'School Streets' programmes are under consideration for 2021 and beyond.</p>	Ongoing
T9	Organised walks to promote healthy lifestyles, i.e. Clondalkin Route	In the next 5 years	EWCC, Public Realm, South Dublin County Sports Partnership	# of walks organised, # of people participating		<p>South Dublin County Sports Partnership organise and promote activities and events around the county. The following marked routes are listed on the SDCSP website;</p> <ul style="list-style-type: none"> • Paths in Tymon Park • Slí na Slainte walk in Tymon • Sean Walsh Park Summer Walk Route map • Waterstown Park Palmerstown Summer Walk Route map • St. Cuthbert's Park Walk Route • Killinarden Park Summer Walk Route • Collinstown Park Summer Walk Route • Rathcoole Park Summer Walk Route • Ballyowen Park Lucan Summer Walk Route 	Ongoing
T10	Develop cycle network strategy	In the next 5 years	LUPT	Strategy developed	 	<p>As part of SDCC's commitment to making the County a national leader in providing a quality network of routes for cyclists, the Cycle South Dublin Plan is currently being developed. This plan will provide comprehensive guidance for the planning, construction and upgrading of cycle tracks and junctions for all vulnerable road users. The plan will identify existing cycle routes and future strategic links it will include over 200km of infrastructure to promote active travel options for both leisure and commuter users.</p>	Ongoing

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
T11	Build out County Cycle Network	In the next 5 years	LUPT	Kms of cycle routes added		SDCC has committed to making the County a national leader in providing a quality network of cycle routes. The following County cycle network schemes currently under construction will provide important strategic links for cyclists; <ul style="list-style-type: none"> • Dodder Greenway - 10km from Bohernabreena to the Grand Canal Dock, including the construction of three bridges at Bolbrook Centre, Kilvere bridge and Bushy Park bridge. • Belgard Square North to Cookstown Link Road. 	Ongoing
T12	Development of cycle/pedestrian greenways	In the next 5 years	LUPT	# of cycle / pedestrian greenway paths added		The following cycle/pedestrian routes are being progressed through planning or construction stages in 2020; <ul style="list-style-type: none"> • Dodder Greenway - 10km from Bohernabreena to the Grand Canal Dock via Tallaght is under construction, • N81 Jobstown - 2km of Cycling, Walking and Bus facilities (Tenders received), • Grange Road Cycle Route, 1km of improved cycle and bus route, • Wellington Lane walking and cycling route - 3km of improved pedestrian, cycle and public realm connectivity between N81 Spawell and Kimmage Road West, • Tallaght to Liffey Valley Cycle Route - 9.2km of cycle commuter route from Lucan to Tallagh Village via Liffey Valley and Clondalkin (Cycle South Dublin), • Monastery Road Walking and Cycling Scheme 0.4km of walking and cycling facilities connecting Luas Red Cow to Clondalkin Village • Canal Loop Greenway • N81 Integrated Transport and Planning Strategy - 7km including pedestrian and cycling facilities 	Ongoing
T13	Increase number of public bike facilities	In the next 5 years	LUPT	# of bike facilities added		Safe secure lockable bicycle parking units have been installed by SDCC at Tallaght Civic Theatre and Grange Road, Clondalkin. Additional units to be installed at SDCC offices at Tallaght and Clondalkin. 3 additional locations for public bicycle lockers have been identified - Liffey Valley, City West and Tallaght Hospital Luas - and funding has been sought under the Government's July 2020 stimulus fund.	Ongoing
T14	Extend public bike schemes	In the next 5 years	LUPT	# of bikes available in County		Blepper Bike ran a pilot project in South Dublin. The project was suspended after the pilot as a model was not commercially viable. SDCC have engaged with Blepper Bike to develop the Smart Mobility Hub to promote sustainable transport alternatives for staff at County Hall and Clondalkin offices. Further work is required to engage other service providers to examine revised concepts and business models for bicycle sharing schemes.	Ongoing
T15	SDCC will continue to seek new and expand on existing partnerships to encourage sustainable travel and safer travel behaviours	In the next 5 years	LUPT, Road Safety Officer	# of partnerships		SDCC is currently developing a Smart Mobility Hub for use by staff at County Hall, Tallaght and Clondalkin office. The mobility hub partners with the other DLAs, U.C.D., GTS (Good Travel Software), Nissan Ireland and Blepper Bike. The pilot mobility hub will initially include an EV pool car, 3 Electric bicycles, bicycle parking facilities including e-bike charging.	Ongoing



TRANSPORT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
T16	SDCC will establish a portal dedicated to communication and promotion of active travel within existing platforms	In the next 5 years	LUPT, Comm-unications	Portal created		South Dublin County Council currently engage with Activetravellogger.ie to encourage staff to participate in sustainable travel alternatives. The South Dublin County Sports Partnership website includes details of active travel events and walking maps. SDCC are currently working with the NTA to map bicycle parking and storage facilities across the county. Our Cycle South Dublin scheme will include mapping of cycle routes. SDCC have engaged with refill.ie to map and include our water access points on their app. SDCC will be developing a dedicated Climate Action Web page and will include a portal dedicated to active travel including links to the aforementioned schemes.	Ongoing
T17	SDCC will engage with local communities to develop a vision for the future of their neighbourhoods with strong focus on local living, sustainable mobility and quality of life	In the next 5 years	LUPT	# of engagement events		SDCC engages with local communities to help develop a vision for the future of their neighbourhoods, with a strong focus on local living, sustainable mobility and quality of life. To promote community engagement and provide a platform for participation on the next CDP, an issues paper was circulated to communities. SDCC received 220 responses. SDCC also engage with local communities and support a mechanism for discussion on the delivery of the Bus Connects programme.	Ongoing

PUBLIC TRANSPORT

T18	Facilitate the delivery of public transport routes	In the next 5 years	LUPT	# km of routes added		SDCC is working with the NTA on the delivery of the Bus Connects project. The following routes are being progressed. <ul style="list-style-type: none"> Route 6 Lucan to City Centre, Route 7 Liffey Valley to City Centre, Route 8 Clondalkin to Drimnagh, Route 9 Greenhills to City Centre, Route 10 Tallaght to Terenure, SDCC is also progressing the delivery of the following link road projects <ul style="list-style-type: none"> Belgard Square North to Cookstown including cycle facilities 0.3km Celbridge Link Road incl. cycle facilities 2.2km Airton Road Extension incl. cycle facilities 0.35km 	Ongoing
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ACTIONS AWAITING BUDGET

T19	Cycle training programme for 6th Class students / pedal power labs	In the next 5 years	LUPT, Road Safety Officer	# of students participating		South Dublin County Council continues to support cycle training for primary schools. In 2019, 24 schools (1,481 pupils) participated in the pedal power programme. The scheme is ongoing in 2020, participation figures will be available in December.	Ongoing
T20	Pilot VMS on Naas road	In next 5 years	LUPT	Pilot established		Not started	Not started
T21	Expand availability of EV and other facilities for non-fossil fuel powered vehicle charging points in the County	In the next 5 years	EWCC, Climate Change	# of charging points in County		The existing public EV charging infrastructure across South Dublin is operated on a commercial basis by ESB and a few private companies. There are currently 26 charging points available to the public at 14 locations, with plans to install additional points around the county. SDCC is working to ensure that new developments including carparking facilities such as Kiltipper Park and leisure facilities will be equipped with EV charging points. SDCC plan to progress the roll out of EV charging facilities in accordance with the recommendations of the Regional EV Charging Strategy.	Ongoing












FLOOD RESILIENCE



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

FLOOD RISK MANAGEMENT

F1	Transpose national legislation and regulations on climate change adaptation and flood management into development guidelines	In the next 5 years	EWCC	Guidelines produced	 	National Legislation and regulation on Climate Change adaptation and flood management is being transposed into SDCC policy and guidelines, including Greater Dublin Regional Code of Practice for Drainage Works and the Greater Dublin Strategic Drainage Strategy (GSDS). SDCC have tendered the production of a SuDS guidance document and Strategic Flood Risk Analysis to inform policy and to support the development of the County Development Plan 2022-2028	Ongoing
F2	Implement flood risk management guidelines	In the next 5 years	EWCC, LUPT	# of projects following guidelines		SDCC continue to implement the Flood Risk Management Guidelines for new developments. SuDS guidance documents for SDCC and SFRA are currently in development.	Ongoing
F3	Cross-boundary flood management with neighbouring local authorities	In the next 5 years	EWCC	Quarterly meetings with neighbouring local authorities		SDCC have been actively engaged with neighbouring local authorities on the Flood Alleviation Schemes. SDCC drainage operations share a telemetry platform for cameras and sensors at critical screens.	Ongoing
F4	Flood event emergency response plans	In the next 5 years	EWCC	Plans completed and updated yearly		The Major Emergency Plan has been updated. The plan includes Emergency Flood and Severe Weather Sub-Plans.	Complete
F5	Support the development of flood forecasting and warning system	In the next 5 years	EWCC	System developed		SDCC have been actively engaging with Met Eireann and the OPW to support the development of flood forecasting models. Projects include the provision of measurement and telemetry equipment.	Ongoing
F6	Implement and demonstrate SuDS guidelines in own buildings, SDZs and LAPs	In the next 5 years	EWCC, Architects	Case studies completed and reports prepared	 	SDCC have engaged consultants to develop SuDS guidance documents and training. Current SuDS guidance is taken from the GSDS and CIRIA SuDS documents. SDCC have implemented SuDS projects in Kiltipper Park. The development of Clonburris and Kilcarbery SDZs will include significant SuDS methods. Tallaght LAP also includes SuDS requirements in Chapter 7.	Ongoing
F7	Undertake strategic flood risk assessment of all LAPs, SDZs and Development Plans	In the next 5 years	EWCC, LUPT	Assessment completed		Consultants have been engaged to carry out Strategic Flood Risk Assessments for all LAPs, SDZs and Development Plans.	Ongoing
F8	Tree planting for water attenuation	In the next 5 years	EWCC, Public Realm, LUPT	# of trees planted	 	Planting trees and vegetation in Bancroft Park to aid water attenuation and provide bank stability and protection will be a key element of the Poddle Flood Alleviation Scheme. Tree Pits are to be incorporated into the Templeogue Village Renewal Scheme to provide water attenuation.	Ongoing
F9	Develop demonstration sites to show how to combine SuDS/flood attenuation systems with existing land uses	In the next 5 years	EWCC	# of demonstration sites developed	 	SuDS and flood attenuation is currently required under planning for Change of Use or new developments. SDCC have developed a carpark in Kiltipper Park engaging SuDS methods to attenuate water. Future developments at Kilcarbery will include various natural SuDS features.	Ongoing



FLOOD RESILIENCE

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
F10	Protect and conserve floodplains, wetlands, rivers and watercourses subject to flooding	In the next 5 years	EWCC, LUPT	Map of vulnerable areas and species' habitats		SDCC have engaged a team of consultants to develop a Green Infrastructure and Open Spaces Strategy. The brief of the strategy includes an assessment of riparian zones. SDCC are also developing Integrated Constructed Wetlands under the LIFE DURL project and Poddle Flood Alleviation Scheme.	Ongoing
F11	Integrated constructed wetlands for water attenuation and purification	In the next 5 years	EWCC, LUPT	# of wetlands created		Currently plans for an ICW on the Poddle Flood Alleviation Scheme are in the planning process. 4 additional ICWs for the LIFE DURL Project will be progressed to part 8 in Q4 2020.	Ongoing
F12	Develop a climate change impact GIS risk map with scenarios for the Dublin Region	In the next 5 years	EWCC	GIS map developed		Not started	Not started
F13	Develop template to capture impacts, response and costs (including ecosystem services/natural capital costs) for all major climate events	In the next 5 years	EWCC	Template developed and issued		SDCC are trialling the WIRE app to capture the impacts, responses and costs for all major climate events. The app is in development through the CARO.	Ongoing
F14	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	EWCC, LUPT	Policies updated		The SDCC SuDS Guidance documents which are currently under development will support the update of the DLA urban drainage and flooding policies.	Ongoing
F15	Establish a Working Group to deal with the issue of pluvial flood risk. This shall include: <ul style="list-style-type: none"> • How to manage "urban creep" and the increase in impermeable surfaces • Promotion of SuDS early in design process • Development of pluvial flood forecasting through use of point rainfall forecasting 	In the next 5 years	EWCC, LUPT	Working group established		SDCC has established a working group to deal with the issues of pluvial flooding, managing urban creep, promotion of SuDS in early design and the development of flood forecasting.	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
FLOOD DEFENCE							
F16	Risk workshops to assess impacts on Council services	In the next 5 years	EWCC	Risks identified		Not started	Not started
F17	Whitechurch Flood Alleviation Scheme	In the next 5 years	EWCC	Project completed		Whitechurch Flood Alleviation Scheme is currently with An Bord Pleanala. Public consultation period closed in September 2020. Submissions have been received. SDCC awaiting permission to proceed to detailed design stage.	Ongoing
F18	Poddle Flood Alleviation Scheme	In the next 5 years	EWCC	Project completed		The Poddle Flood Alleviation Scheme is currently with An Bord Pleanala. Decision expected in Q1, 2021.	Ongoing
F19	River Camac Flood Alleviation Scheme	In the next 5 years	EWCC	Project completed		Camac Flood Alleviation Scheme is at Stage 1 development. Consultants have been appointed. Initial survey works are ongoing.	Ongoing
F20	Minor flood schemes and general maintenance that are designed and implemented to promote nature-based solutions where practical	In the next 5 years	EWCC	# of projects completed		SDCC are engaging ecological consultants to develop an Ecological Impact Assessment for Gabions at Oldcourt Stream. Report is due by end of 2020. An arbourist is currently engaged on Owendoher river to inspect the condition of trees along the bank for flood alleviation. EISs will be sought for cleaning projects at Ballycreagh and Ballymount Lakes to commence in 2021.	Ongoing
ACTIONS AWAITING BUDGET							
F21	Communication and awareness campaigns on flood risk management and natural flood management measures	2020	EWCC, Communications	# of households reached		Communication and awareness campaigns on Flood Risk Assessment are ongoing under the 3 Flood Alleviation Schemes. Campaigns include public awareness workshops and Social media updates.	Ongoing
F22	Promote and encourage community involvement in the retrofit of SuDS in existing developments	2020	EWCC, Housing	# of communities involved		SDCC encourage community involvement in the retrofit of SuDS in existing developments. SuDS guidance and best practice are conditioned through the planning process.	Ongoing



NATURE-BASED SOLUTIONS

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

OPERATIONS

N1	Establish regional working group to identify areas and priorities for actions	In the next 5 years	EWCC, Public Realm	Working group established		SDCC has contacted neighbouring LAs to establish a Regional Working Group to identify new actions and priorities. Working group includes members from 4 DLAs.	Ongoing
N2	Establish a cross-departmental Trees and SuDS Working Group to promote and pilot water-sensitive urban design (WSUD) incorporating urban tree planting	In the next 5 years	EWCC	Working group established, # of urban tree pits used as attenuation systems		SuDS and Tree Working Group has been established and is currently progressing the development of guideline for SuDS. Guidelines for SuDS will include guidance on using tree pits for water attenuation.	Ongoing
N3	Workshop to develop Dublin Risk Assessment for nature and climate change	In the next 5 years	EWCC, Climate Change	Workshop conducted, assessment developed		Not started	Not started
N4	Workshop on NBS, green infrastructure and Sustainable urban Drainage Systems (SuDS)	In the next 5 years	EWCC	Workshop undertaken, report of outcomes		A series of workshops on Nature-Based Solutions and SuDS has been included in the scope of the services to be delivered by the SuDS Guidelines Consultant.	Ongoing
N5	Produce regional floodplain management guidelines	In the next 5 years	EWCC	Guidelines produced		Not started	Not started
N6	Finalise draft <i>Biodiversity Action Plan</i>	In the next 5 years	EWCC	Plan published		Draft Biodiversity Action Plan has completed public consultation phase and final plan is being prepared for adoption by the elected members of SDCC.	Complete

GREEN INFRASTRUCTURE

N7	Develop <i>Green Infrastructure Strategy</i> that identifies areas and priorities for green infrastructure and investment	In the next 5 years	EWCC	Strategy developed		Green Infrastructure is currently in development. A team of consultants have been appointed to complete the GI strategy. GI Strategy will be developed in tandem with the review of the County Development Plan	Ongoing
N8	Develop <i>Public Open Space and Parks Strategy</i> that incorporates climate change mitigation and adaptation	In the next 5 years	EWCC	Strategy developed		Parks and Open Space Strategy is currently in development. A team of consultants have been appointed to complete the POS strategy. POS Strategy will be developed in tandem with the review of the County Development Plan.	Ongoing
N9	Incorporate natural play space into existing parks for recreation and as SuDS	In the next 5 years	EWCC	# of spaces developed		SDCC Play Space programme has been completed. Play spaces have been developed at; <ul style="list-style-type: none"> • Tymon Regional Park • Tymon Limekiln • Griffeen Valley Park (Griffeen Avenue). Additional natural play spaces will be incorporated in new developments as appropriate going forward.	Complete



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
N10	Implement policies in the development plan avoiding artificial underground storage of attenuation water, where possible, in favour of nature-based solutions	In the next 5 years	EWCC	Reduction in the # of artificial attenuation systems as a % of developments		Section 7.2 of SDCC County Development Plan (2016-2022) deals with the management of surface and groundwater. IE2 Objective 5 aims to limit surface water run-off from new developments through the use of Sustainable Drainage Systems and avoid the use of underground attenuation and storage tanks. Applications made through the planning process are individually assessed and sustainable drainage systems are conditioned where possible. SDCC meet developers at pre planning consultations to discuss surface water management. SDCC promote natural drainage solutions and overground water attenuation to support increased biodiversity value, public amenity and water quality.	Ongoing

AGRICULTURE

N11	Develop a hedgerow plan for the County, with actions to map, protect and develop hedgerows county-wide	In the next 5 years	EWCC	Map produced, # of hedgerows maintained and added		The development of the Green Infrastructure Strategy will include a tree and hedgerow mapping exercise. A Tree Management Strategy (2021) review will include hedgerow management.	Ongoing
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TREE MANAGEMENT

N12	Develop urban woodland management strategy and action plan	In the next 5 years	EWCC, Public Realm	Plan produced		Review of South Dublin County Council Tree Management Strategy 'Living With Trees' has commenced.	Ongoing
N13	Implement Tree Management Policy	In the next 5 years	EWCC, Public Realm	Annual programme of tree maintenance implemented		Living With Trees tree management strategy is in place. Policies are being implemented under the current 3 year tree management plan (2020-2022).	Ongoing
N14	Increase tree canopy cover in the County through annual planting and maintenance	In the next 5 years	EWCC, Public Realm	% increase in tree canopy cover		Approved tree management strategy in place.	Ongoing
N15	Develop coordinated regional planning approach to prevent the removal of healthy, established trees	In the next 5 years	EWCC, Public Realm	Protocols agreed and implemented, % annual reduction in tree removal by local authorities		A Regional Steering Group on tree management including SDCC has been set up.	Ongoing
N16	Measure and maintain species diversity in urban tree population	In the next 5 years	EWCC, Public Realm	Reduction in diseases attacking trees		Over 25,000 trees have been surveyed and measured on our tree management software Arbourtrack. A list of species native to the County has been developed.	Ongoing
N17	Develop & promote establishment of tree trails in public parks across the County	In the next 5 years	EWCC, Public Realm	# of trails established		The following tree trails have been established in South Dublin; <ul style="list-style-type: none"> • Ogham Tree Trail at Dodder Valley Park, • Tree trail at Sean Walsh Park 	Ongoing
N18	Develop demonstration projects for successful planting and establishment of trees in urban hardscapes	In the next 5 years	EWCC, Public Realm	Pilot areas identified and trial solutions designed		As part of the Urban Village Renewal Programme in Templeogue Village, South Dublin County Council has included tree pits to aid in water attenuation. Additional demonstration sites for water attenuation are under consideration.	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
N19	Provide opportunities for community engagement, involvement and activities to raise awareness	In the next 5 years	EWCC, CCEAO	# of events	 	SDCC has arranged the delivery of a series of Community Climate Action awareness workshops. The workshops have also been delivered online and in person. SDCC are also supporting the Sustainable Energy Communities programme with bridging finance and facilitating project delivery.	Ongoing
CONSERVATION AND PRESERVATION							
N20	Review and climate-proof <i>Biodiversity Action Plan, Invasive Alien Species Plan, and Tree Management Policy</i>	In the next 5 years	EWCC, LUPT	Complete review for climate relevant actions carried out and amended accordingly		SDCC Biodiversity Action Plan has been reviewed and climate-proofed. Invasive alien species will be mapped and a management plan will be developed as part of the Biodiversity Action Plan. SDCC Tree management strategy is currently under review.	Ongoing
N21	Develop list of species native to County and map of habitats that are at risk for use in EIAs	In the next 5 years	EWCC	Map of species, completion of list and baseline numbers established		Action 1.1 in the Draft Biodiversity Plan is; <ul style="list-style-type: none"> • Map the distribution of the habitats and species in the County • Map and manage the spread of non-native invasive species • Survey and monitor biodiversity at identified pollinator sites • Survey and map wetlands in the County • Map the tree canopy cover in the County and quantify its carbon capture • Map the County's hedgerow network and identify key Green Infrastructure links. Habitat mapping is ongoing as part of the GI Strategy. A list of species native to the county has been developed.	Ongoing
N22	Include native species into local authority plans as a key nature-based measure where appropriate	In the next 5 years	LUPT	# of plans including native species		Native Species will be included in plans where appropriate. Advice re native/appropriate species included in Tree Management Policy, SDCC Pollinator Plan and Biodiversity Action Plan. Planning advice to developers includes advice regarding native species.	Ongoing
N23	Survey, map and implement control plan of invasive species	In the next 5 years	EWCC	Reduction of M2 of IAS and # of IAS	 	Invasive alien species identification and location recording is ongoing. Mapping Invasive Species and developing a management plan are included as actions on the Biodiversity Action Plan.	Ongoing
N24	Incorporate actions from national pollinator plan into <i>Green Infrastructure Strategy</i>	In the next 5 years	EWCC, LUPT	Plan implemented		The GI Strategy is currently in development. Actions from the National Pollinator Plan will be incorporated to the GI Strategy where appropriate.	Ongoing
N25	Manage and monitor identified 'pollinator protection sites'	In the next 5 years	EWCC	% of pollinator species increased		SDCC currently manage 136 Ha of Pollinator friendly meadows. SDCC have also signed up to the National Pollinator Plan. SDCC have received funding from NPWS to undertake a survey of pollinator sites in Tymon Park, Waterstown Park, Vesey Park and Lucan Demesne. The survey will include botanical and pollinating insect resources at these locations forming a baseline for future counts.	Ongoing
N26	Maintain and expand community gardens and allotments for local food production	In the next 5 years	EWCC	# of sites across County		South Dublin County Council supports local food production by providing community allotments. SDCC currently operates 425 allotments.	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
N27	Support local communities with biodiversity education	In the next 5 years	EWCC, CCEAO	# of participants, yearly reports		The Community Environment Action Fund (CEAF) promotes sustainable development by assisting small-scale environmental projects at a local level. 14 projects relating to biodiversity received funding support totalling €17,000 under the 2019/2020 grant.	Ongoing
N28	Sustainable gardening workshops	In the next 5 years	EWCC, CCEAO	# of workshops held, # of attendees		SDCC support local communities with sustainable gardening workshops. Master compostor programme training provided communities an opportunity to manage and develop community composting demonstration site.	Ongoing

ACTIONS AWAITING BUDGET

N29	Develop demonstration sites to show how to combine nature conservation with existing land uses	In the next 5 years	EWCC	Demonstration sites implemented		SDCC's Green Infrastructure Strategy will include Case studies. ICWs and wetlands in development through the Life project and the Flood Alleviation Schemes will be demonstration sites on combining nature and biodiversity with existing land use.	Ongoing
N30	Deliver green roofs on civic buildings	In the next 5 years	EWCC, Architects	# of Council buildings with green roofs		Green roofs have been developed in South Dublin at the following locations: <ul style="list-style-type: none"> • Dodder Park Pavilion • Valhalla Housing Watery Lane, Clondalkin • Round Tower Visitor Centre, Clondalkin • St. Dominic's Community Centre, Tallaght. Green roofs are planned to be developed on the following SDCC projects <ul style="list-style-type: none"> • Corkagh Park Pavilion • Griffeen Park Pavilion • Saggart Community Centre 	Ongoing
N31	Maintain and increase Green Schools Programme participation	In the next 5 years	EWCC, CCEAO	# of schools participating		SDCC support participation in the Green Schools Programme. Currently 138 schools in South Dublin are registered on the programme. In May 2020, 22 Primary and Secondary schools were awarded Green Flags at a virtual ceremony.	Ongoing
N32	Engage with residents and relevant stakeholders on climate change and biodiversity to incorporate their ideas into Council strategies and plans	In the next 5 years	EWCC, CCEAO, LUPT	# of participants, # of interactions		Public consultation and webinars were carried out for the Biodiversity Action Plan and has commenced for CDP review	Ongoing
N33	Assess the benefit of increasing buffer distance of 10m from water courses to protect biodiversity and provide greater flood attenuation for distances of 20m, 50m and 100m	In the next 5 years	EWCC, Public Realm	Comprehensive assessment completed		SDCC County Development Plan review is underway. As part of the review a Green Infrastructure Strategy has been commissioned. The GI strategy will examine the current policy relating to riparian zone and may inform CDP.	Ongoing



RESOURCE MANAGEMENT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
ACTIONS CURRENTLY BUDGETED							
WASTE MANAGEMENT							
R1	Monitor and enforce waste regulation	In the next 5 years	EWCC	Environmental Performance Assessment from EPA		Monitoring and enforcement of waste regulation in South Dublin is ongoing. SDCC inspectors engage with business and communities to help manage waste and prevent illegal dumping. CCTV monitoring of bottlebanks and high risk dumping sites is ongoing. To date in 2020, <ul style="list-style-type: none"> • 1029 inspections have taken place • 64 enforcement notices have been issued 	Ongoing
R2	Introduce measures to reduce waste in Council buildings	In the next 5 years	EWCC, Architects	10% reduction in waste in Council HQ buildings by 2021		Measures to reduce waste in County Council buildings are ongoing. SDCC work in partnership with AES/BNM to reduce waste. Climate Change and Environmental Awareness Officer engages with building managers to further reduce waste. SDCC are actively engaged with office contractors including canteen management to reduce waste. SDCC actively dissuade the use of single use plastics at County Council supported events. Waste in Council buildings has been reduced due to home working as a result of Covid-19 - office based staff levels currently at 50%.	Ongoing
R3	Introduce measures to increase recycling in Council buildings	In the next 5 years	EWCC, Architects	% recycling rate		SDCC have introduced several measures to increase recycling in Council buildings. Single use cups and cutlery have been removed from the canteen and coffee dock. Segregated bins and composting facilities have been introduced in the offices and canteen. Old used batteries are collected and returned for recycling. WEEE collection schemes are promoted annually in County Council buildings. Additional measures including kitchen caddys are currently under consideration to assist composting.	Ongoing
R4	Civic amenity waste stations	In the next 5 years	EWCC, Public Realm	# of civic amenity sites that include reuse		Currently up to ½ of the material accepted into Civic amenity sites under management of SDCC is recycled. SDCC operate annual amnesties for mattresses and hazardous household waste including paints and weedkillers.	Ongoing
R5	Apply for Local Authority Prevention Network grants	In the next 5 years	EWCC, CCEAO	# of grants for waste related projects		SDCC apply annually for Local Authority Prevention Network Grants. In 2019 Water stations were part funded by the LAPNF. €12,750	Ongoing
R6	Create Stop Food Waste campaign for businesses and schools	In the next 5 years	EWCC, CCEAO	Campaign developed and implemented, # of people, businesses and schools engaged		Stop Food Waste' campaign is run annually. Climate Change and Environmental Awareness Officer has engaged with Clean Technology Centre to promote the programme to local business.	Ongoing
R7	Promote Eco-Week	In the next 5 years	EWCC, CCEAO	# of events held, # of people reached		Environmental awareness section promote Eco-Week annually. Event was cancelled in 2020 due to Covid 19. Alternative workshop delivery and promotional options are being considered.	Ongoing
R8	Promote Re-Use Month annually	In the next 5 years	EWCC, CCEAO	# of Council run events		Reuse month is promoted annually in South Dublin through the Environmental Awareness section. Promotion of 'repairmystuff.ie' Irish repair directory list through social media /SDCC website	Ongoing



NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
R9	Promote programmes to advise businesses on reducing waste, e.g. EcoMerit	In the next 5 years	EWCC, CCEAO	# of businesses participating		SDCC in partnership with the Local Enterprise Office have developed programmes to provide advice and training on waste reduction and energy saving to business. SDCC is looking to establish a group of 10 businesses to form a sustainable business community to provide advice and training to businesses interested in resource efficiency and the circular economy.	Ongoing
R10	Eliminate single-use plastics at Council organised events	In the next 5 years	EWCC, CCEAO	Reduction in non-recyclable / non-compostable material used at events		South Dublin County Council prohibit the use of single-use plastic items at County Council organised and licensed events. SDCC initiated events will allow for compostable materials to be used as substitutes for SUP.	Ongoing
R11	Ongoing support of the Conscious Cup Campaign / promotion of reusables over disposables	In the next 5 years	EWCC, CCEAO	# of buildings in SDCC supporting CCC, # of staff using reusable mugs		SDCC supports the Conscious Cup Campaign. Go2Cup scheme was permanently adopted in County Buildings. The scheme was impacted by Covid-19. SDCC support Contactless Coffee scheme on Social Media.	Ongoing
R12	Ongoing support of the Small Business Innovation Research (SBIR) challenge for illegal dumping	In the next 5 years	EWCC, CCEAO	Trialled solution		SDCC supports SBIR through projects delivering on climate action and waste management. Opportunities for small business to engage with SDCC have been promoted through the the LEO and Chamber. Small business initiatives including cigarette butt and plastic recycling and smart-tech litter bins have been supported.	Ongoing

LITTER & RECYCLING IN THE PUBLIC REALM

R13	Run anti-dumping/ anti-litter campaigns	In the next 5 years	EWCC	# of campaigns implemented		South Dublin County Council run anti-dumping and anti-litter campaigns on social media. Campaigns to educate members of the public on dog fouling and Covid-19 PPE have been run on social media. SDCC support anti-dumping education through promotion of the Green Schools.	Ongoing
R14	Waste Prevention Fund	In the next 5 years	EWCC	# of programmes implemented		Proposals for project to be developed under the Waste Prevention Fund are currently under consideration	Ongoing
R15	Introduce measures to reduce waste and increase recycling	In the next 5 years	EWCC	Reduced waste tonnage and increased rates of recycling		South Dublin County Council promote reuse and recycling of materials. SDCC operate 2 recycling centres and 70 glass recycling bottle banks. Additional measures to reduce the amount of single use plastics include our support of the Conscious Cup Campaign and the provision of 9 drinking water fountains around the county, which has eliminated the need for 50,000 plastic bottles. Additional water fountains are being installed in 2020.	Ongoing
R16	Provide more glass recycling in public realm	In the next 5 years	EWCC, Public Realm	Areas of need identified, # of glass banks added		South Dublin County Council currently manage glass recycling collection at 74 locations. Additional locations are planned for Lucan. SDCC are investigating improved concept for greater acceptance by the public.	Ongoing
R17	Introduce leaf composting programme	In the next 5 years	EWCC	# of residents' associations participating		A leaf composting programme has been introduced in South Dublin. SDCC have a contract with Oxygen to collect and compost leaves in Templeogue/Rathfarnham areas.	Ongoing



RESOURCE MANAGEMENT

NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
R18	Support and promote tidy towns initiatives in County	In the next 5 years	EWCC	# of initiatives supported annually		South Dublin County Council continue to support the Tidy Towns programme through funding and training. Community workshops on Climate Change and local initiatives were organised in 2020 delivered to interested community groups and Tidy Towns committees.	Ongoing

LANDFILL MANAGEMENT

R19	Monitor and enforce waste regulation	In the next 5 years	EWCC, Climate Change	Environmental Performance Assessment from EPA		South Dublin County Council has identified the site at the disused Arthurstown Landfill as a potential renewable energy project. A report was commissioned to investigate the potential to develop a renewable solar energy project at the site. Recommendations include a 2 phase approach, to include; <ul style="list-style-type: none"> • An initial 75kw project to cover the base load requirements of the leachate treatment plant, • A subsequent 5MW commercial PV farm. 	Ongoing
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WATER CONSERVATION

R20	Implement water conservation campaign in civic buildings	In the next 5 years	EWCC, Architects	% reduction in water consumed		SDCC has introduced measures to reduce water consumption in Civic buildings include replacement of faucets with automatic shut off mechanisms. Other measures under consideration include installing aerator taps and low flow toilets.	Ongoing
R21	Identify pilot locations for water access points	In the next 5 years	EWCC, Public Realm	Sites identified		In 2019 South Dublin County Council introduced 9 public water fountains as a pilot project aimed to reduce single use plastic bottles. To date over 25,000 litres of water has been dispensed from the stations, eliminating the need for up to 50,000 Single Use Plastic bottles. Five additional water stations have received funding to be installed in 2020.	Ongoing
R22	The Council will work with the Local Authority Waters Programme in its support of communities and stakeholders in the delivery of local water quality projects and initiatives	In the next 5 years	EWCC	# of projects delivered		South Dublin County Council continue to work with the Local Authority Water Programme to support communities and stakeholders to deliver local water quality projects and initiatives. SDCC meet LAWPRO bimonthly to exchange and update progress reports. SDCC have engaged with LAWPRO on community initiatives such as World Water Day.	Ongoing

ACTIONS CURRENTLY BUDGETED

R23	Trial of low-flush toilets in Council headquarters and social housing	In the next 5 years	EWCC, Architects	# of Council buildings and social housing units with low flush toilets		SDCC are investigating the feasibility of trialling low flush toilets in County Hall	Not started
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NO	ACTION	TIME-FRAME	LEAD(S)	INDICATORS	TARGET(S) IMPACTED	PROGRESS REPORT 2020	STATUS
R24	Research feasibility of rainwater harvesting in Council buildings	In the next 5 years	EWCC, Architects	Study completed		Rainwater harvesting opportunities at county hall were investigated as measured to reduce consumption of treated water and to aid attenuation. The project was deemed to be not economically viable in County hall. The proposal is being considered on other Council buildings, including the development of green and blue roofs.	Ongoing
R25	Promote recycling and the circular economy to householders through a range of workshops, talks and programmes	In the next 5 years	EWCC, CCEAO	# of events		South Dublin County Council continue to promote recycling, sustainable living and the circular economy to householders and community groups through the delivery of workshops and discussions. SDCC hosted 5 community workshops on Climate Change and local community and individual measures that can be taken to inspire change. Workshops were held in person, however, after the Covid-19 outbreak, delivery of the workshops was changed to online.	Ongoing
R26	Explore collaboration with stakeholders such as Refill.ie to reduce single-use items	In the next 5 years	EWCC, CCEAO	# of collaborations established		South Dublin County Council has collaborated with Conscious Cup Campaign, Refill.ie, and Nobutts.ie to reduce the number of single use plastic items.	Ongoing
R27	The Council will strengthen existing networks and create new climate change links to encourage all business community stakeholders to engage with climate change action and enhance existing projects and initiatives. Interest areas could include energy efficiency measures, renewable energy opportunities, climate adaptation and resilience measures, access to funding sources, etc.	In the next 5 years	EWCC, CCEAO, LEO, SDCC, Chamber of Commerce	# of updated network material		SDCC is strengthening its existing networks and developing new partnerships to encourage the business community to engage with Climate Action initiatives. The Tallaght District Heating Scheme has presented an opportunity to strengthen its partnership with Technological University of Dublin (Tallaght). SDCC engage with the South Dublin Chamber, Corporate Social Responsibility Group to include sustainability and green measures. SDCC will encourage the Business Community to become involved with the Sustainable Energy Authority of Ireland, (SEAI) Sustainable Energy Communities programme, to support community efforts and to develop networks of energy awareness	Ongoing

APPENDIX I: REFERENCES

1. <https://www.dccae.gov.ie/documents/National%20Adaptation%20Framework.pdf>
2. <https://www.covenantofmayors.eu/en/>
3. <https://www.dccae.gov.ie/en-ie/climate-action/publications/Pages/Climate-Action-Plan.aspx>
4. https://www.dccae.gov.ie/documents/Climate_Action_Plan_First_Progress_Report.pdf
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7. <https://www.gov.ie/en/publication/984d2-climate-action-and-low-carbon-development-amendment-bill-2020/>
8. <https://www.gov.ie/en/publication/34fac-programme-for-government-2020-costings/>
9. http://www.climatecouncil.ie/media/CCAC_AnnualReview2020FINALWEB.pdf
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12. https://ec.europa.eu/environment/nature/biodiversity/strategy/index_en.htm
13. https://ec.europa.eu/clima/policies/adaptation_en
14. https://www.esri.ie/system/files/publications/RS106_2.pdf
15. http://www.epa.ie/pubs/reports/other/corporate/EPA_Covid19.pdf
16. <https://www.mco.ie/studio-notes/m.co-survey-on-life-during-covid-19>
17. https://www.ipa.ie/_fileupload/ResearchPapers/Local%20Gov%20Covid-19%20Innovation%20Case%20studies_29July2020_Final.pdf
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APPENDIX II: 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 III: LIST OF ACRONYMS

ABP	An Bord Pleanála
AIPP	All Ireland Pollinator Plan
BER	Building Energy Rating
CARO	Climate Action Regional Office
CCAC	Climate Change Advisory Committee
CCAP	Climate Change Action Plan
CCMA	County & City Management Association
CDP	County Development Plan
CFRAMs	Catchment Flood Risk Assessment & Management
CODEMA	City of Dublin Energy Management Agency
CSO	Central Statistics Office
DAFM	Department of Agriculture, Food & Marine
DCC	Dublin City Council
DECC	Department of the Environment, Climate & Communications
DHPLG	Department of Housing, Planning & Local Government
DLAs	Dublin Local Authorities
DLR	Dún Laoghaire-Rathdown County Council
DTTAS	Department of Transport, Tourism & Sport
DURL	Dublin Urban Rivers Life Project
EIA	Environmental Impact Assessment
EMWR	Eastern & Midlands Waste Region
EnPI	Energy Performance Indicator
EPA	Environmental Protection Agency
EPC	Energy Performance Contract
ESB	Electricity Supply Board
ESRI	Economic & Social Research Institute
EV	Electric Vehicle
EWCC	Environment, Water and Climate Change
FAS	Flood Alleviation Scheme
FCC	Fingal County Council
GAA	Gaelic Athletic Association
GHG	Greenhouse Gases
GTS	Good Travel Software
ICW	Integrated Constructed Wetland
LAP	Local Area Plan
LEADER	Liaisons entre actions de developement de Léconomie Rurale
LEO	Local Enterprise Office
LGMA	Local Government Management Agency



LUPT	Land Use, Planning and Transportation
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
POS	Public Open Space
RD&D	Research, Development & Demonstration
RMCEI	Recommended Minimum Criteria for Environmental Inspections
SDCC	South Dublin County Council
SDZ	Strategic Development Zone
SEAI	Sustainable Energy Authority of Ireland
SEC	Sustainable Energy Community
SECAP	Sustainable Energy & Climate Action Plan
SFRA	Strategic Flood Risk Assessment
SPC	Strategic Policy Committee
SuDS	Sustainable Drainage Systems
SUP	Single Use Plastic
TPER	Total Primary Energy Requirement
TUD	Technological University of Dublin
UCD	University College Dublin
WEEE	Waste Electrical and Electronic Equipment
WIRE	Weather Impacts Register
WSUD	Water Sensitive Urban Design

