



# FINGAL COUNTY COUNCIL CLIMATE CHANGE ACTION PLAN 2019-2024

*-ANNUAL PROGRESS REPORT 2022*

Comhairle Contae  
Fhine Gall  
Fingal County  
Council



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

### **Foreword:**

This is the Third Annual Progress Report on the implementation of Fingal County Council's Climate Change Action Plan 2019-2024. The Council has been working to meet its targets, reduce its emissions, and implement a range of actions across the five thematic areas of this plan; and continues to work in collaboration with CARO, Codema, the Dublin Local Authorities and other stakeholders.

All public sector organisations will be challenged to meet Climate Targets over the next decade. The National Policy framework is evolving at pace, providing direction, and putting responsibility on all sectors to deliver on Climate Action, for society, and for generations to come. Fingal County Council's aims to provide leadership in the area.

Fingal County Council has made significant progress on its climate actions, and this is demonstrated within this report. One focus over the coming year will be to continue the mainstreaming of climate action across all functions and services, led by the steering group and senior teams. The Council also aims to increase the number of staff working directly in the area, and to further progress a number of studies which are underway including the potential for District Heating within the county, the development of a Decarbonising Zone, and the facilitation of electric vehicle charge point roll out.

This report demonstrates the commitment Fingal County Council has shown in the first three years of this Plan, through a collaborative effort across all Departments. The Council is committed to demonstrating leadership in the area and aims to build on these actions over the coming years.

David Storey

Director of Services

Environment Climate Action and Active Travel Department

## 1 Introduction

### Background

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

The Plan sets out four key targets and 133 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 Fingal County Council in conjunction with the City of Dublin Energy Management Agency (Codema) and the Dublin 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. Fingal County Council has committed to reviewing and reporting on this Plan annually.

This is the third annual progress report and refers to the reporting period from 31<sup>st</sup> October 2021 to 31<sup>st</sup> October 2022.

The four Dublin local authorities in conjunction with Codema and CARO organised 'Dublin Climate Action Week' in September 2022. This follows from the successful inaugural Dublin Climate Action Week in September 2021. The overall vision of Dublin Climate Action Week 2022 was – 'to highlight Dublin's climate action progress to its citizens and demonstrate the leadership role of the four local authorities in conjunction with other partners'.



A steering group chaired by South Dublin County Council worked together to devise a programme of events and promotional material to showcase the shared objectives of the initiative which were to:

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

The website [www.dublinclimateactionweek.ie](http://www.dublinclimateactionweek.ie) was established as a portal for information and booking of events. In total over 40 in-person and on-line events were delivered across the CCAP theme areas of Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions, Resource Management and Citizen Engagement. The website continues to be a repository of information containing recordings of events and links to local authority work in the area of climate action. In addition to the website, the handle #DCAW22 was used in conjunction with regional and local videos and various media to promote and highlight the activities during the week both locally nationally and internationally.

Fingal led events culminated in a fun mini-Climate festival in Millennium Park Blanchardstown. The event showcased sustainable fashion, composting and community gardening, sustainable household choices, active travel, and a fun carbon calculator. The Fingal Instruments Project had music playing throughout the day and 20 instruments were given away. The Rediscovery centre provided bike repairs all day and had a very busy time keeping up with the demand! The event was attended by the Mayor, local councillors and TD's. It's estimated that 800-1000 people attended the event.



This Third Annual Progress Report demonstrates progress to date in the implementation of the CCAP, and the Council's commitment to demonstrating local level leadership on climate action. Section 4, highlights in summary a sample of progress under each thematic action area. A more detailed progress update on each action can be found in section 5 of the report.

The CCAP will be reviewed and updated on an annual basis. At present 19 actions are complete; 111 actions are ongoing and 3 are not started and are due to start. The majority of actions are 'Ongoing'. These actions are broad-ranging and have a rolling duration and are generally greater than one year in lifespan. It is envisaged that the majority of actions may remain ongoing for a number of years. Actions which have a maintenance requirement such as R4 'Remove all single use items from Council canteens' and T2 'Modernise the workplace to facilitate flexible working arrangements to reduce staff travel' are categorised as ongoing (see Appendix I for Action Status Categorisation definitions). Furthermore, implementation of climate actions, particularly adaptive actions, can be an iterative process, as learnings and success are built upon. For example, the Council will continually update its emergency response plans as per action F7. As such the progress of this CCAP should not be solely measured on the number of actions 'Completed', but rather the successful mainstreaming and enhancement of climate action across all LA functions and services. This report demonstrates that this mainstreaming is underway.

## Updates to policy and legislation since the Annual Progress Report 2021:

The policy and legislative context relating to climate action has developed in the last year.

**The Climate Action and Low Carbon Development (Amendment) Act 2021<sup>1</sup>** was signed into law by the President of Ireland on the 23<sup>rd</sup> of July 2021. The Act enshrines the National Climate Objective

*“to pursue and achieve, by no later than the end of 2050, the transition to a climate resilient, biodiversity rich, environmentally sustainable and climate neutral economy”.*

The Act states that **carbon budgets** for the purpose of achieving the National Climate Objective shall be proposed by the Climate Change Advisory Council (CCAC) and approved by government for a five-year period with new budgets introduced for each subsequent 5-year period thereafter. Following the process set out in the Act, the CCAC submitted, and published in October 2021, the first proposed carbon budget programme. The Programme, comprising three 5-year budgets (2021-2025; 2026-2030; and 2031-2035), came into effect on 6 April 2022. Sectoral emission ceilings were approved by government at the end of July 2022<sup>2</sup>. The next Climate Action Plan is due to be published by the end of 2022. It will reflect the Carbon Budgets and Sectoral Emissions Ceilings for the relevant sectors and provide a roadmap of actions to ensure compliance.

A further provision of the Act provides that the Minister may issue guidelines in respect of the content and preparation of the local authority climate action plans and that local authorities shall comply with these guidelines. To support local authorities in the preparation of their Local Authority Climate Action Plan and in response to the provisions of the Act, Climate Ireland/EPA and the Climate Action Regional Offices under the oversight of a project advisory group, have worked in partnership to advance a set of guidelines for local authorities. Dublin CARO, Codema and Dublin City Council were represented on this group. A draft Final version of these guidelines were issued by the LGMA to the sector in September 2022.

As the four Dublin Local Authorities have already prepared Climate Change Action Plans (CCAPs), comprising adaptation and mitigation actions, it is the intention that existing plans will be varied and amended to align existing CCAPs with the requirement of this new national guidance and increased level of ambition stemming from the Climate Action and Low Carbon Development (Amendment) Act 2021 and forthcoming National Climate Action Plan.

**The Climate Action Plan 2021** (CAP 2021), published in November 2021 is an ambitious plan to put Ireland on a more sustainable path, cutting emissions, creating a cleaner, greener economy and society and protecting the country from the consequences of climate change. The Plan provided indicative ranges of emissions reduction for each sector of the economy by 2030 and sets out a range of actions required for delivery of climate targets. An accompanying Annex provided implementation maps for actions, specific timelines and responsibilities.

**The Circular Economy and Miscellaneous Provisions Act 2022** was published in July and underpins Ireland’s shift from a "take-make-waste" linear model to a more sustainable pattern of production and consumption, that retains the value of resources in the economy for as long as possible. The transition from a linear consumption based economy to a circular economy has the potential to significantly reduce greenhouse gas emissions as well

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<sup>1</sup> <https://www.oireachtas.ie/en/bills/bill/2021/39/>

<sup>2</sup> [gov.ie](http://gov.ie) - Sectoral Emissions Ceilings ([www.gov.ie](http://www.gov.ie))

as drive a more sustainable way of consumption and living across society and across sectors. In addition to phasing out single-use packaging and incentivising the use of recycled and reusable alternatives, the Act introduces mandatory segregation for commercial waste.

The **Climate Change Advisory Council**<sup>3</sup> published its 2022 annual review in late September. A key task of the Council 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. Its 'traffic light' review of sectoral adaptation progress the Local Government Sector has improved on the 2021 report and noted as 'Good Progress' being made by Local Authorities and CAROs. In particular *"the Council acknowledges the resource and capacity constraints facing local authorities and the Climate Action Regional Offices (CAROs) given their importance in delivering mitigation and adaptation"*. The report notes that the integration of mitigation with adaptation demonstrates good progress and that the climate action training programme appears to be successful and should increase mainstreaming in the future. A recommendation in the 2022 review is that *"this (local authority/CARO) sector would benefit from further consideration and coordination of the associated socio-economic and environmental (including biodiversity) risks and opportunities and actions to manage these"*.

The Environmental Protection Agency's **Ireland's Provisional Greenhouse Gas Emissions 1990-2021** was published in July 2022. The report shows an increase in emissions of 4.7 per cent in 2021 compared to 2020 - when Covid restrictions had led to a significant lowering of emissions. In total in 2021, 61.53 million tonnes of carbon dioxide equivalent (Mt CO<sub>2</sub>eq) were emitted, with emissions 1.1 per cent above 2019 pre-COVID restriction levels. The increase is mostly due to a significant increase in emissions from the Energy sector due to a tripling of coal and oil use in electricity generation in 2021, with increases also seen in the agriculture and transport sectors.

The Environmental Protection Agency's **Ireland's Greenhouse Gas Emissions Projections 2021-2040**<sup>4</sup> was also published in July 2022. It provides an updated assessment of Ireland's total projected greenhouse gas emissions to 2040 which includes an assessment of progress towards achieving its National ambitions under the Climate Action and Low Carbon Development (Amendment) Act 2021 and EU emission reduction targets for 2030 as set under the EU Effort Sharing Regulation (Regulation (EU) 2018/842). Key findings include:

- Urgent implementation of all climate plans and policies, plus further new measures, are needed for Ireland to meet the 51 per cent emissions reduction target and put Ireland on track for climate neutrality by 2050.
- Ireland can meet its non-ETS EU targets of a 30 per cent emission reduction by 2030 (compared to 2005) assuming implementation of planned policies and measures and the use of the flexibilities available.
- Carbon budgets proposed by the Climate Change Advisory Council have recently been approved by the Oireachtas for the periods 2021-25, 2026-30 and 2031-35. The Projections highlight that there is currently a significant gap between the budgets and the projected emissions over the budget periods. This gap will need to be addressed very quickly if Ireland is to stay within the Carbon Budgets.
- Spending more time at home due to hybrid working and the increasing cost of fossil fuels highlights the need for our houses to become far more efficient. Implementing currently planned measures for

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<sup>3</sup> [Climate Change Advisory Council - ANNUAL REVIEW 2022 \(climatecouncil.ie\)](https://climatecouncil.ie)

<sup>4</sup> [EPA-Ireland's-GHG-Projections-Report-2021-2040v4.pdf](#)

the installation of 680,000 heat-pumps by 2030 as well as retrofitting 500,000 homes is projected to achieve a 41.5 per cent reduction in residential emissions in 2030 (compared to 2018).

The Sustainable Energy Authority of Ireland's **Annual Report 2021 on Public Sector Energy Efficiency Performance** showed primary energy savings of 4,576 GWh, 848,000 tonnes of CO<sub>2</sub> savings and a total of €298 million in cost savings across the sector.

In February 2022, the second of three Working Group reports from the **Intergovernmental Panel on Climate Change (IPCC) 6<sup>th</sup> Assessment report (AR6)** was released. The Working group 2 report: Climate Change 2022: Impacts, Adaptation and Vulnerability recognizes the interdependence of climate, biodiversity and people and integrates natural, social and economic sciences more strongly than earlier IPCC assessments. The report drew the following conclusions:

- Recent changes in the climate are widespread, rapid, and intensifying, and unprecedented in thousands of years.
- Urgent action required to deal with increasing risks
- Safeguarding and strengthening nature is key to securing a liveable future
- Cities are hotspots of impacts and risks, but also a crucial part of the solution
- There is a narrowing window for action

In April 2022, the third of three Working Group reports from the **Intergovernmental Panel on Climate Change (IPCC) 6<sup>th</sup> Assessment report (AR6)** was released. The Working group 3 report: Climate Change 2022: Mitigation of Climate Change focuses on in-depth evidence, research and actions that can be taken to mitigate climate change. The report drew the following conclusions:

- Limiting global warming will require major transitions in the energy sector. This will involve a substantial reduction in fossil fuel use, widespread electrification, improved energy efficiency, and use of alternative fuels
- Cities and other urban areas also offer significant opportunities for emissions reductions. These can be achieved through lower energy consumption (such as by creating compact, walkable cities), electrification of transport in combination with low-emission energy sources, and enhanced carbon uptake and storage using nature. There are options for established, rapidly growing and new cities.
- Reducing emissions in industry will involve using materials more efficiently, reusing and recycling products and minimising waste. Achieving net zero will be challenging and will require new production processes, low and zero emissions electricity, hydrogen, and, where necessary, carbon capture and storage.
- Agriculture, forestry, and other land use can provide large-scale emissions reductions and remove and store carbon dioxide at scale. Response options can benefit biodiversity, help us adapt to climate change, and secure livelihoods, food and water, and wood supplies

## Decarbonising Zones

The National Climate Action Plan 2019 contains 183 actions some of which are relevant to the Local Authority Sector. The Department of Housing Local Government and Heritage are the lead for Action 165 of the National Climate Action Plan 2019 which requires Local Authorities to identify and implement a 'Decarbonising Zone' (DZ) in each of their areas. A circular issued by DHLGH to Local Authorities in February 2021 requires that *'Once candidate decarbonising zones are identified, and subject to additional guidance and feedback each local authority must develop DZ Implementation Plans'*. A DZ Working group has been set up chaired by DHLGH comprising representatives of DECC, SEAI, EMRA, CCMA, LGMA, OPR and CARO with a view to assisting the sector in implementing this action. Ownership of this action changed from DHLGH to DECC in late 2021. Fingal County Council with the assistance of Codema, is studying two potential DZ at present, identifying opportunities and potential projects which could be developed to deliver emissions reductions within the potential DZ.



## Local Authority Resourcing and Funding

The Climate Action Regional Offices, working with the CCMA have over the last 2 years been actively engaging with the Department of Environment Climate and Communications in efforts to secure funding towards the cost of putting resources in place to allow the sector to scale up efforts and play a key leadership role locally and nationally in delivering effective climate action. These resources are also needed in advance of the preparation of the Climate Action Plans as required under the Climate Act. In *Delivering Effective Climate Action 2030* (DECA 2030), the local government strategy on climate action, an overarching commitment on leadership is highlighted to ensure a coherent approach to climate action across the administrative and political structures of all 31 local authorities.

Representatives from the County & City Managers Association (CCMA), the Local Government Management Agency, (LGMA), the Climate Action Regional Offices (CARO) and the Association of Irish Local Government (AILG) appeared before the Oireachtas Joint Committee on Environment & Climate Action (31st May 2022) to discuss challenges and opportunities for local authorities in climate action. Paddy Mahon, Chief Executive of Longford County Council and Chairman of the CCMA Climate Action & Transport Network committee gave an opening statement that provided an overview of some of the climate action work undertaken across the sector over the last number of years and stated the ambition to scale up efforts and play a key leadership role locally and nationally in delivering effective climate action. However, he noted that it was clear from discussions across the sector that there is insufficient staff capacity at local authority level to implement that ambition and he highlighted in particular the need for climate action resources across local authorities and for an enhanced CARO.

## 2. City of Dublin Energy Management Agency (Codema) update

This section is a non-exhaustive summary of some of the main activities Codema has undertaken in the last 12 months.

### Energy Management

Codema assists in the direct energy management within Fingal County Council, completing the Sustainable Energy Authority of Ireland (SEAI) Monitoring and Reporting to show the authority's progress towards its 2030 51% energy efficiency improvement target. By the end of 2021, Fingal County Council had improved its energy efficiency by 41.8% compared to the baseline. In addition to this, a target of a 51% absolute reduction in energy-related GHGs has also been set by 2030. This target will use a separate baseline to the energy efficiency target, taking an average of emissions from 2016-2018. Codema has begun to assess what additional actions will be required to achieve this target, using the latest Gap-to-Target tool developed by SEAI. The figures for 2021 indicate that GHG emissions have reduced by 34.4% compared to the baseline. Codema assists Fingal County Council in the implementation of their ISO 50001 Energy Management System (EnMS), to drive energy performance and energy awareness throughout the Council. A significant part of this role is attending the regular energy team meetings and preparing monthly energy reports for each of the SEUs identified in Fingal County Council. In 2022, seven DECs were generated for public buildings. Codema has guided Fingal County Council through the procurement process for its first Energy Performance Contract, for the Blanchardstown Civic Offices and Swords County Hall. The works phase of this EPC will soon be coming to completion. 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. Codema was awarded significant funding from the EU Horizon 2020 Programme in 2021 to develop a Project Implementation Unit for the development of renewable energy and energy efficiency projects in Dublin over the next four years. Under this DeliveREE project, 21 FCC facilities have been proposed for energy projects within the project pipeline. In conjunction with this, Codema is working with the four Dublin Local Authorities to develop a Pathfinder funding application with SEAI, which could provide up to 50% capital funding for these projects.



## **Energy and Climate Awareness**

As one of the organising partners, Codema worked very closely with Fingal County Council throughout the organisation and implementation of Dublin Climate Action Week 2022. There was excellent synergy and collaboration achieved across the Codema and the Fingal County Council teams, resulting in a cohesive and informative week of events. Codema continued to support the Home Energy Saving Kit Scheme across Fingal County Council's libraries and developed an additional 10 kits for Fingal Libraries in 2022. This means that there are now 24 Home Energy Savings Kits available for the public to borrow free-of-charge from Fingal Libraries. The Home Energy Saving Kit scheme has continued to expand nationally, with the kits now available to borrow from over 160 libraries across Ireland.

## **Dublin Region Energy Master Plan**

Codema has developed the Dublin Regional Energy Master Plan through the SEAI Research, Development and Demonstration (RD&D) programme. The aim of this project is to evaluate and outline the cost-optimal, spatially possible and technically feasible low-carbon scenarios for Dublin to meet its 2030 and 2050 CO<sub>2</sub> reduction targets from the perspective of society, energy consumers and the energy sector. This project looks at the three main energy sectors (heat, electricity and transport) and the synergies between them, to deliver more cost-effective low-carbon pathways for the region. It looks 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.

## **SEC**

Codema are the coordinators for the SEAI Sustainable Energy Communities (SEC) Programme for the Dublin and Mid East region. The seven counties (4 Dublin LAs, Kildare, Wicklow and Meath) are each provided with a mentor to help advise the SECs and 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. Work has been carried out to improve and streamline the energy master plan process, to make it more accessible for SECs, by reducing risk and highlighting Stakeholders. This has been achieved through Dublin City Councils EMP Framework, which is managed by Codema. A Memorandum of Understanding has been signed by Fingal County Council in order to make the EMP process more accessible for SECs. The tender will last for four years, with two years remaining, and has already proved very popular with sixteen new SECs signing up this year across the region, and a current total of one hundred and sixty six SECs. Fingal has twenty SECs, with five EMPs completed to date, out of a total fifty EMPs completed overall.

## **Decarbonising Zones**

Codema has supported the Climate Action Regional Offices (CAROs) with the development of the guidelines for the implementation of decarbonising zones, and has supported the Dublin Local Authorities (DLAs) with their decarbonising zone selection process and is also providing ongoing support to the Dublin local authorities with the development of their zone analysis and planning process for inclusion in future updates to the DLAs' Climate Change Action Plans (CCAPs).

## District Heat

Codema are carrying out a feasibility study for a district heat network in the Blanchardstown area on behalf of Fingal County Council. This will chart the pathways for the initial roll out of district heating in the Fingal area, if feasible, based on the analysis.

## 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:

**Zero Together:** Codema has made significant progress in relation to the Zero Together initiative, which sets out to create a collaborative roadmap and strategy for the whole of Dublin to ensure we meet our 2030 and 2050 emission-reduction targets. Fingal County Council is a member of the Zero Together Transition Team, which includes change agents across academia, transport, local authorities, community, energy and NGOs to work together collaboratively to develop a roadmap to reduce Dublin's emissions by 2030 and 2050. Over the course of 10 months between 2021 and 2022, Codema organised eight facilitated workshops with the Transition Team. Throughout 30 hours of deliberation, the team brought their knowledge and expertise to the process, building out a vision for Dublin, discussing the current barriers, setting out the strategic directions and looking at the key actions that need to be implemented for Dublin's energy transition.

The Zero Together roadmap is grounded in three core elements to ensure that it is fair and impactful: 1) an evidence-base to direct the roadmap and ensure that it is grounded in the best available information and science, 2) collaboration across a diverse range of sectors, moving beyond silos and working together to develop and disseminate the roadmap and 3) public engagement and participation. All of these three elements are in motion; the Dublin Regional Energy Master Plan is the culmination of three years of research and was launched in June 2022.

In September 2022, Codema launched its Postcards from Dublin 2050 campaign, as part of Dublin Climate Action Week. This initiative invites the people of Dublin to share their ideal vision of our capital free from fossil fuels. Codema will build on the next phases of this campaign - and wider Zero Together public engagement - in 2023.

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

**REDAP (Regional Energy Demand Analysis Portal)** project, which was approved under the 2018 European Research Area Network (ERA-Net) Smart Energy Systems fund and is supported by the Sustainable Energy Authority of Ireland. REDAP, which started in November 2019 and was completed in March 2022, presents a

cross-sectoral approach to regional energy systems and will help end-users to spatially visualise and better understand the characteristics of urban energy demand. This project builds on the work Codema had previously done in developing the Spatial Energy Demand Analysis (SEDAs), similar to the SEDAs, this project gives insight into the building stock and additionally, also provides information on the transport sector. It combines GIS with urban energy planning data to provide an integrated approach to energy in both the building and transport sectors, and spatial planning. This in turn enables planners, policy-makers and investors to make more informed decisions relating to energy demand, energy efficiency and renewable energy alternatives, whilst also generating an increased evidence base to inform further project feasibility and implementation.

**QGasSP:** Codema along with Tallinn University of Technology (TalTech), Stockholm Environment Institute (SEI) and Oivan were awarded the tender for QGasSP. This research is financed through the European Spatial Planning Observation Network (ESPON) Programme, which is an applied research programme aimed at supporting the formulation of territorial development policies in Europe. This project which started in October 2020, was completed in May 2022. The objective of this research project was to produce a methodology that will allow planning authorities at national, regional and local administrative levels to quantify the influence of spatial planning policies on GHG emissions in a consistent manner. More specifically, the objective was to address the knowledge demands and technical requirements of the four stakeholders included within this Targeted Analysis Project, namely, the Eastern and Midlands Regional Authority (IE) who are the lead stakeholder in this project; Scottish Government – Planning & Architecture Division (UK); Department of Infrastructure, Northern Ireland (UK); and Regional Council of Kymenlaakso (FI).

The ESPON Greenhouse Gas Impact Assessment (GGIA) tool Targeted Analysis is designed to quantify the climate impact of spatial plans and policies in territories, cities and municipalities throughout Europe. GGIA provides two alternative modes for greenhouse gas (GHG) emissions quantification: Territorial mode consists of sectoral modules and quantifies the direct GHG emissions arising within the specific areas. Consumption-based mode quantifies the GHG emissions which arise from the consumption of goods and services by the residents in the area. is a tool to develop cross-border evidence. For this project, the purpose of the targeted analysis is to identify robust methods for quantifying the relative impact on GHG emissions of alternative spatial planning policies to inform strategic alternatives. Codema's role in this project was to lead the case study pilots, building related GHG methodology and data collection. This project specifically targets the EMRA's RSES Regional Policy Objective (RPO) 3.6 - City and county development plans shall undergo assessment of their impact on carbon reduction targets and shall include measures to monitor and review progress towards carbon reduction targets.

**DeliveREE** will create an innovative project finance and delivery structure for RE projects in the Dublin region, across 4 municipalities, using various performance-based contracting structures. By creating a structured approach, DeliveREE will accelerate the formation of large-scale projects by standardising the project development process, allowing projects of various types and sizes to be aggregated to create scale. This enables the use of energy performance and energy supply contracts whose performance guarantees are both critical for achieving value for money and provide a mechanism for the involvement of private capital. DeliveREE will do this by:

1. Creating a 'one stop shop' Project Implementation Unit (PIU) for project owners to go to for energy saving projects
2. Creating an innovative standardised central project delivery system for processing potential projects to achieve speed of assessment and give confidence and familiarity to clients & market players
3. Removing legal and administrative barriers through cooperatively designing approved assessment templates and procedures to ensure quality control and due diligence
4. Aggregating projects, bundling multiple small and medium projects together to attract EScO market and private financing, and gain large scale impact on efficiency in the building stock

5. Using a range of performance-based contracts to ensure long-term guaranteed energy savings, and de-risk cash-flows

DeliveREE will test and develop the PIU with the roll-out of a pipeline of EE projects in public sector buildings and services across the 4 Dublin Local Authorities over 4 years. The pipeline includes over 140 buildings and sites across the 4 municipalities, including a mix of building types such as leisure centres, fire stations, theatres, libraries, head offices, community buildings and landfill treatment facilities. The project will save an average of 24GWh energy savings over the contract lifetime, amounting to 3.8 ktCO<sub>2</sub> savings. The total CapEx of the pipeline is €20.4m, with an estimated total contract value of these energy projects of circa €23.5m of which at least €9.75m will be privately financed. Based on the consortium's experience of delivering projects with a mix of financing sources, we aim to have a financing split of 20% project owner, 50% grant and 30% private financing on average across the contracts. Procurement for the first 3 lots of aggregated projects is expected to begin by the end of 2022.

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

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

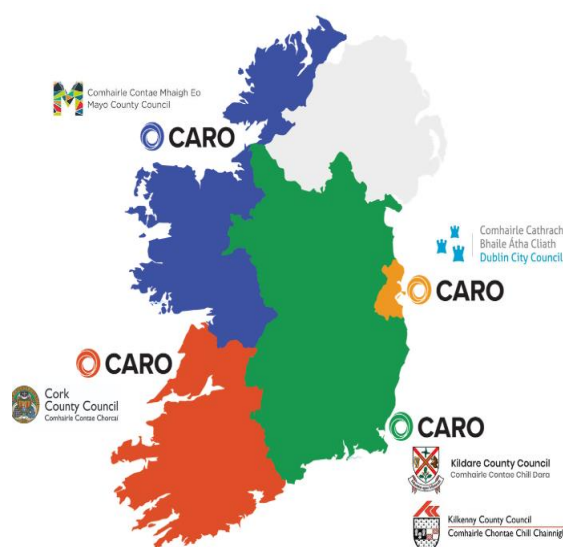
### **3. Climate Action Regional Office (CARO) update**

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 Table 1.

Climate Action Region	Local Authority function area	Lead Authority
<b>Dublin Metropolitan</b>	Dublin City, Dun-Laoghaire-Rathdown, South Dublin, Fingal	Dublin City Council
<b>Eastern and Midlands</b>	Carlow, Cavan, Kildare, Kilkenny, Laois, Leitrim, Longford, Louth, Meath, Monaghan, Offaly, Roscommon, Tipperary, Waterford, Westmeath, Wexford, Wicklow	Kildare County Council with support from Kilkenny County Council
<b>Atlantic Seaboard North</b>	Donegal, Sligo, Mayo, Galway City & County	Mayo County Council
<b>Atlantic Seaboard South</b>	Clare, Limerick, Kerry, Cork City & County.	Cork County Council

**Table 1:** Climate Action Regional Offices



**Figure 1:** Climate Action Regional Offices (CAROs)

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 relevant CCMA/LGMA and Government working groups on Climate Action
- **Climate Adaptation**
  - Assisting local authorities with implementation and reporting of Climate Change Adaptation /Action Plans including implementation guidance
  - Preparation of guidance such as guidance document for adaptation of regional & local roads
  - Working with Government Departments and agencies on the implementation of sectoral adaptation plans

- Collaborating with key climate actors such as Climate Ireland, 3<sup>rd</sup> Level Universities
- Participation on National Working Groups such as new Coastal Change Strategy Steering Group
- **Climate Mitigation**
  - Participation in Regional and National Electric Vehicle (EV) working groups
  - Collaboration with energy agencies and SEAI on energy related projects
  - Identifying and assisting local authorities with projects eligible for the National Climate Action Fund
- **Communications and Citizen Engagement**
  - Presentations to Councils, Government Departments and Agencies, youth organisations and the general public
  - Supporting individual local authorities with community engagement events including climate action workshops
  - Collaboration with key stakeholders such as GAA on Green Clubs Programme, Comhairle Na nOg, Age Friendly Ireland etc.
  - Maintenance of the CARO website and social media communication channels
  - Production of a quarterly on-line newsletter detailing new policy, legislation, best practice examples of climate mitigation and adaptation, news
  - Preparation of submissions on climate relevant public consultations
- **Training and Education**
  - Preparation and rollout of a comprehensive Climate Action training plan for the LA sector across all levels (see below for further details)
  - Identification of external training and upskilling opportunities in climate action for the Local Authority Sector
  - Collaboration with expert organisations and representative bodies for tailored workshops and training seminars
- **Knowledge Development**
  - Development of online Weather impacts Reporting 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



A key focus of the CARO work programme for 2022 has been the roll out of climate action training across the local authority sector. This training plan has been developed by the CAROs in collaboration with partners such as the Local Authority Environmental Services Training Group (LASTNG), Climate Ireland, the Sustainable Energy Authority of Ireland (SEAI), Met Éireann, the Environmental Protection Agency, the Institute for Public Administration and others. Training has been targeted at all staff levels and focuses on the following six pillar areas;

- *Climate Action Leadership* – aimed at all elected members & senior staff
- *Climate Action Awareness Training* – aimed at building capacity across climate action teams
- *General Awareness Building* – online training for all indoor staff to raise awareness of climate action
- *Practical Climate Action* – training for all outdoor staff to assist them to deliver practical climate action measures



- *Behavioral Change Training* – to empower staff to promote positive change both internally and across the community
- *Specific and Targeted Training* – training arising from specific knowledge gaps or individual policy/role requirements, such as spatial planning, flood risk management and

Despite the COVID restrictions that were in place for the first part of 2022, the training programme advanced in interactive online formats and workshops throughout the year across all counties. Since January 2021, just over 16,500 training places have been provided to staff from all 31 Local Authorities across all 6 training pillars of the Local Authority Climate Action Training Programme. Other key work areas for Dublin CARO throughout 2021 included:

**Strengthening communications.** This has been primarily by developing the CARO website and the CARO quarterly e-newsletter. The CARO website was launched in February 2021 and has had over 144,000 views and 86,000 users since then. The most popular sections of the website include projects, research, local authority climate action, training and academic courses. The CARO newsletter has more than 700 subscribers across a range of local authorities, agencies, government departments, academia and members of the public. Both the website and the newsletter are key tools for dissemination of information on climate policy, research, funding, events, training and examples of climate action work across the local authority sector.

**Community outreach.** Working with the four Dublin Local Authorities and Codema a significant amount of work and events were undertaken as part of the Dublin Climate Action Week in September to deliver a programme of in person and online events to showcase climate action. Additional outreach will be achieved through the delivery of recorded webinars on the CARO website for future use. Significant work was also undertaken with other partners as part of the GAA Green Clubs Phase 1 programme<sup>5</sup>. Other events have included working with partners such as Age Friendly Ireland, An Taisce Climate Ambassadors and 3<sup>rd</sup> Level universities to participate in events and workshops on climate action.

**Changing behaviour and empowering local adaptation.** CARO have worked with artists, a number of local authorities, academia and other partners on the Creative Climate Action Funded project ‘Línte na Farraiqe’<sup>6</sup>. It consists of a series of LED light art installations at coastal locations to visualise sea level rise and storm surge. Communication tools such as a website, information boards and a social media campaign have been devised to engage the public on climate action. The project launched in September 2022 with an installation in the Spanish Arch Galway (see image 1 below) and Wexford Promenade in October. A further installation may be completed in Dublin in early 2023.



Image 1: Línte Na Farraiqe installation by Pekka Nittyrvita and Timo Aho – Galway, September 2022.

<sup>5</sup> [Green Clubs Programme \(gaa.ie\)](https://www.gaa.ie)

<sup>6</sup> [www.lintanafarraige.com](https://www.lintanafarraige.com)



**Providing expertise to national policy formation.** CARO contributed to policy development as a member of expert groups and for the following publications:

- Project Advisory Group on Local Authority Climate Action Plan Guidelines;
- Dublin Local Authority Electric Vehicle Charging Strategy;
- Local Authority Electrification of Fleet and EV Charging Guidance.
- Preparation of submissions to DECC National Adaptation Framework and Department of Transport Electric Vehicle Charging Strategy
- Local Authority GPP Training Steering Group; and
- Dublin's Energy Transition Roadmap (Zero Together).

#### 4. Sample of progress under each thematic action area in summary:

##### Energy & Buildings:

The Council continues to work to achieve energy efficiency and emission reductions across its own buildings, facilities, functions and services, and influence climate action in the wider community. The National Climate Action Plan 2021 has set new targets for public sector bodies of 50% improvement in energy efficiency and 51% reduction in emissions by 2030 across their own operations. The Council is working to meet these targets with the assistance of Codema, and although these targets will be a challenge for public bodies, Fingal County Council is well placed having met its 2020 target of 33% energy efficiency improvement.

In 2022, Fingal County Council is one of the first local authorities to appoint an energy specialist as internal Energy Manager. Working alongside the Energy Performance Officer, the Energy Manager will help coordinate and drive the activities of the Energy Management Team, which is a multidisciplinary team working to deliver efficiencies across all energy accounts.

The current European energy supply crisis has highlighted Ireland's reliance on Gas for electricity generation and has renewed focus on energy savings across the public sector. As a result, all public sector bodies have endeavoured to show leadership in relation to energy savings and have set heating temperatures in offices and buildings at 19 degrees Celsius this winter.

The Council's Energy Management Team in collaboration with Codema have made energy efficiency improvements of 41.8% to December 2021. This amounts to an absolute saving of 16.5 GWh of primary energy or 5,586 tonnes of CO<sub>2</sub>. The figures for 2021 indicate that Council GHG emissions have reduced by 34.4% compared to the baseline (avg. 2006-2008). Most of the reductions have come from the Public Lighting LED upgrade programme and from energy savings in large offices, libraries, operations, and fleet. The Council's ISO 50001 compliant Energy Management System has ensured these savings. The Energy Management System was recertified in 2022 following an audit by an external certification body. The system was found to be continually improving and conforming to the requirements of the ISO standard.

The conversion of streetlights to LED's is 95% complete at present and should be complete in 2022.

Energy Performance Contracts (EPCs) for energy upgrades for Fingal County Hall and Civic Offices in Blanchardstown are in place and providing energy efficiency measures at both sites. These contracts are for a period of up to 9 years and should deliver savings of 1.3GWh per annum. The primary measures for both buildings include the full upgrades of the lighting, boilers, air handling and building management systems, and the installation of a solar photovoltaic systems. 1.3 GWh saving under the EPC would be equivalent to the annual primary energy demand of 54 average homes. A new EPC is in planning stage for the Draíocht Arts Centre & Library, Blanchardstown.

The Council continues to improve the energy performance of its social housing stock. All new homes are developed to Near Zero Energy Building Standard, and the upgrade of existing social housing stock is well advanced with attic and wall insulation programmes complete and single glazed window replacement also complete.

The Government launched a revised ten-year Energy Efficiency Retrofitting Programme for social housing upgrades in 2021. The revised programme provides for significant upscaling in the levels of funding, in line with the Programme for Government commitments; and focuses on ensuring that the fabric of the home is upgraded, and an energy efficient heating system is provided. This enables local authorities to move to a 'deeper retrofit' programme; thus, building on what has been completed in previous years. The programme targeted 2,400 social homes nationally, for upgrade works in 2022. Fingal County Council has availed of maximum levels of funding under the programme and secured funding for 65 properties in 2021 and 81 properties in 2022. In 2022 it exceeded the DHLGH target by completing a deep retrofit on 91 properties, to include solar pv panels, external wrapping, new heat pumps and attic insulation. Work has commenced on a further 150 homes under the 2023 programme. The retrofit works result in significant savings for Council tenants and more comfortable homes. Although the revised programme provides for significant upscaling in the level of funding available; the Council is constrained by Government funding allocations in relation to social housing retrofits.

The Councils Housing & Community Development Department are exploring options to help drive the uptake and delivery of private residential energy efficiency upgrades; and if possible, by coupling certain activities with the delivery of public housing upgrades in mixed estates.

As an excellent redevelopment example, the Councils Architect Department is developing plans for the redevelopment of two vacant houses on North Street Swords to include the extension of the existing structures to provide a scheme of thirteen apartments in total. The existing houses on the site are semi-derelict and unoccupied for several years. It is proposed to renovate and extend the two houses to retain and strengthen the streetscape. This development in planning will be exemplary in keeping with the Objectives of the County Development Plan; the Government's 'Housing for All' Plan and the 'Town Centre First' approach - aimed at supporting the future development and regeneration of towns across Ireland. These policies support the development of town centre brownfield sites, like the subject site, bringing existing underutilised or derelict housing stock back to life, providing additional higher density residential units in strategic locations, utilising existing services and infrastructure, and providing sustainable places to live close to work and active travel and public transport links.

The Council has commissioned Codema to complete a techno-economic analysis for a potential District Heating network in the Blanchardstown area and to produce an Outline Business Case report. This will study heat sources and loads in the area and provide an evidence base for the potential development of a network, and finance options.

Fingal County Council continues to support Sustainable Energy Communities (SECs) in the Fingal area and works to actively promote & support the programme. There are currently twenty SECs in Fingal, seven of which were added in 2021, and three added to date this year. Council staff engage with the SEAI assigned mentor and with Codema who are the regional coordinator in facilitating the programme. The local mentor guides the SEC through a three-step process of 'Learn-Plan-Do.' This process is aimed at assisting SECs become more energy-efficient, use renewable energy, and consider smart energy solutions. Most SECs are at the Learn / Plan stages at present. Codema hosted a knowledge sharing event for SECs as part of DCAW22, a recording of which is available at <https://dublinclimatechange.codema.ie/climate-action-week/event-resources/page-5/>

An additional ten Home Energy Saving Kits have been added to the Fingal Libraries stock in September 2022, bringing the total to 25 kits across Fingal Libraries. The Home Energy Saving Kit has been developed to help residents understand their energy consumption and identify areas to reduce consumption and consider home for energy upgrades.

A number of Energy Awareness webinars were hosted by Codema for Dublin Climate Action Week, including a webinar focusing on saving energy in the home. Recordings are available at <https://dublinclimatechange.codema.ie/climate-action-week/event-resources/>



*Solar PV installed on the roof at County Hall Swords*



*Solar PV being installed on Social Housing*





*External Wrap Insulation installed on a Social Home before external render applied.*



*Proposed Housing Development North Street Swords*

## Transport:

Transitioning towards more sustainable transport systems is one of the major challenges facing Irish society as approximately 18% of Ireland's greenhouse gas emissions come from transport. There is an overdependence on private cars which are responsible for the largest share of transport energy at approximately 42% in 2020.

Fingal County Council continues to plan for the future and the draft Fingal Development Plan 2024-2029 has a focus on Connectivity & Movement in support of Climate Action. A key strategic objective of the draft Plan is to strengthen the integration of land-use and transport planning with a priority focus on increased provision of walking, cycling and public transport infrastructure. Several supporting policies and objectives focus on the decarbonisation of transport, supporting the transition to sustainable modes and modal shift, demand management, the development of active travel networks including a network of greenways; and supporting for the provision of a high-quality public transportation system. These will provide for well serviced well connected towns & villages and promote sustainable travel options which will take cars off our roads, improve the quality of life of residents and enhance the attractiveness of Fingal for visitors.

The Planning & Strategic Infrastructure Dept continues to progress an ambitious programme of sustainable and active travel projects across the county alongside its ongoing work in ensuring high quality transportation provision as part of the development management and forward planning process.

Transport Projects unit is developing a network of high-quality greenways as part of our wider sustainable transport infrastructure programme. A number of projects at various stages of design, planning and construction and substantial progress is being made. Key project milestones that were reached during 2022 include well attended public consultation exercises on the Sutton-Malahide Cycling and Walking Project, the N3 Upgrade and the Fingal Coastal Way.

The delivery of these greenway projects is a key priority for the Council as they offer multiple benefits including improved quality of life for our residents providing active travel /sustainable transport and recreation options; resulting in cleaner air, improved public health, reduced carbon emissions, and further boosting the attractiveness of the county for tourism.

The Council's dedicated Active Travel Unit has been strengthened significantly over the past year and now employs two Walking/Cycling Officers. An Active Travel Strategy has been developed in 2022 and a significant programme of works has been developed across various pillars including the enhancement and delivery of a protected cycle network across the county, the roll out of the safe routes to school programme, delivering infrastructure improvements that will enhance connectivity, reviewing and delivering in towns and village to make active travel more accessible; and the support of mobility and behavioral change.

The Council secured NTA (National Transport Authority) funding in 2022 to progress the delivery of a network of protected cycle lanes under the NTA five year programme. A number of schemes are under construction across the county, including the provision of protected cyclelanes and walkways in St Cronan's Avenue, Swords, the provision of protected cyclelanes and front of school interventions at St Philip the Apostle School, Dublin 15.

The Active Travel Section is working in close collaboration with Planning & Strategic Infrastructure Dept with a view to ensuring quality connectivity between the larger strategic projects and the residential, commercial and amenity areas by way of appropriate infrastructure. The team is also tracking and evaluating connectivity suggestions from various stakeholders and will work to deliver projects on the ground where possible. In addition the Active Travel unit is working closely with our colleagues in the Operations Department to ensure active travel improvements are incorporated in the Operations Department's works programme.

The Safe Routes to School Programme (SRTS) is also progressing with local solutions designed to encourage the whole school community to walk or cycle to and from school wherever possible, by improving the safety and making these options more attractive. The 2023 programme was recently announced and Fingal is delighted to see the inclusion of 5 additional schools. These schools will join a list of 9 others in Fingal who received round 1 funding in 2021 and where work is underway and, in some cases, already complete. Safe Routes to School initiatives are also being delivered through Fingal strategic infrastructure projects in the vicinity of schools and are being promoted through the planning process.

The Safe Routes to School programme was launched to address road safety concerns in the vicinity of primary and post-primary schools in Ireland. Making access on foot, by bike or by scooter safer for children helps families to choose Active Travel. Fingal County Council is committed to making necessary improvements and installing infrastructure to support Active Travel, making it the first choice for local journeys under 5km.

5 Fingal schools were announced for round 2 of Safe Routes to School:

- Holy Family Junior National School, Swords
- Scoil Bhríde Buachaillí, Blanchardstown
- Scoil Bhríde Caillíní, Blanchardstown
- St. Helen's Senior National School, Portmarnock
- St. Colmchille's Girls National School, Swords

A lot of work has been invested on Behavioural Change initiatives. Staff from the Active Travel Team together with Senior Management, Cllrs, and members of the Planning & Strategic Infrastructure Department and Operations Department embarked on two educational and eye-opening cycle study tours in Copenhagen and Utrecht, to research some of the Cycling & Walking Infrastructure and Public Realm enhancements that have been introduced there over the years. These study tours included informative and thought-provoking presentations, along with long cycles in all weather, just as locals in these cities do daily. Both were informative exercises which demonstrated how the application of appropriate Active Travel solutions can benefit the user experience and contribute to changing mindsets in respect of walking and cycling. While the Infrastructure, active lifestyle culture and behaviour towards walking and cycling is well ahead of where we are currently at in Ireland, staff and councillors were reassured to see similar challenges in both countries and gained insights into overcoming those challenges. The team look forward to working with councillors on developing and



implementing similar solutions, to improve Active Travel infrastructure across Fingal, for the benefit of all.

The Active Travel unit is also working to provide and facilitate a number of shared mobility options and to encourage behavioural change and increase the uptake of cycling, bike share, car share and community car; and to improve road safety for pedestrians and cyclists.

To date 476 bike locking facilities have been delivered in 2022 distributed across the 7 Fingal Local Electoral Areas. Locations are a variety of playgrounds, skateparks, beaches, town and village centres, sports clubs, schools and shopping amenities. Ongoing work will continue with assessing suggested locations to include in future work packages to be delivered in 2023.

The Bleeper Bike Share Scheme continues to run across the County with an average of 125 bikes available at all times. The Tier eBike Share Scheme was launched on the 20th June 2022 with 100 eBikes delivered across Blanchardstown, Swords, Malahide, Portmarnock, Baldoyle and Howth. At the beginning of August we deployed extra eBikes in the Dublin 15 area and expanded the service to Rush, Lusk and Donabate, bringing the number of ebikes in Fingal to 150. Skerries and Balbriggan are to follow by the end of September. E-bikes offer battery power to help you along your journey and choosing an e-bike could prove the smarter way to get wherever you're going. With up to 80km battery life, TIER e-bikes are ideal for longer journeys or for more difficult uphill trips as the battery power kicks in as you pedal and helps you get moving.

The ESB eBike pilot project launched on the 17th August 2022 across 5 locations in Fingal hosting 40 eBikes for hire. 3 sites are located on Fingal land in Swords, Malahide and Howth with 2 further sites located on private property in Santry and Blanchardstown. This scheme is co funded by Intereg North-West Europe and is to run for 10 months initially. During 2022 the total number of bike share journeys has been more than 20,000

Fingal Bike Week took place in May 2022 and was coordinated by Active Travel Section who organised a range of virtual, staff and public events to take place at various locations across Fingal. There was something for all ages and abilities to participate in. This year's theme was 'Click into Gear'. Virtual events included Self-led family cycles using maps prepared by the Active Travel Team of suitable family cycle locations across Fingal. Competitions included "Pedal for your Medal", Bling your Bike and #CycleThere photo competitions open to the public and schools. Other events included an all-inclusive cycle event with Prosper Fingal in Malahide Demesne which the children enjoyed immensely, a trip to the BMX bike tracks in Lucan for local schools, a transition year cycle around Balbriggan with students from Ardgillan Community College, Spin and Swim event in Velvet Strand, Adult Cycle Training, Cycling without Age launch and much more. Bike week culminated in our flagship, family fun cycling event in Malahide Castle on Sunday 22nd May. It was a hugely enjoyable vent for attendees and staff and the team look forward to delivering another successful Bike Week in 2023.

The four Dublin Local Authorities, CARO and SMART Dublin comprise the Electric Vehicle Regional working group which launched Dublin's first Electric Vehicle Strategy in June 2022. The strategy aims to support and accelerate the transition to electric vehicles and to deliver an optimal solution for the region as a whole and for each LA area. The strategy allows each local authority to examine how they can best facilitate the provision of electric vehicle-charging infrastructure across the Dublin region and the scale of investment required. Codema have been appointed to provide assistance in preparation of a procurement plan for the delivery of infrastructure. The DLA sought Expressions of Interest from the public on the possible locations of EV charging points, to help identify areas of local need

throughout the County. The DLA will also engage with Zero Emission Vehicle Ireland, which was established this year, to accelerate the uptake of zero emission vehicles.

The Government has mandated public sector employers to move to 20% remote working in support of targets in the Climate Action Plan. Accordingly, Fingal County Council has developed and implemented a Blended Working Policy which ensures organisational needs are met in maintaining the delivery of high standards of public services. A key enabler was the progress the Council made on various digital solutions, enabling staff to meet remotely through the COVID-19 pandemic. These have reduced the need to travel to offices and meetings.

The sum of these actions will encourage a modal shift away from private cars to more sustainable alternatives. This will ultimately result in a reduction in the number of journeys taken by car, taking cars off the roads, reducing congestion and emissions across the County.



*Launch of Portmarnock Cycle Bus*



*Cycle Bus arrives at St. Marnock's National School*



*Fingal's Active Travel Team with the Chief Executive at Bike Week Family Fun Day*



*Tier ebikes available for coastal tours*



## Flood Resilience:

Fingal County Council is active across all aspects of flood risk management, from prevention to emergency response, through to infrastructural investment following extreme weather events. This includes actions that consider flood risks arising from climate change through development policies, collaboration with the Office of Public Works (OPW) as the lead state agency in relation to flood risk management in Ireland on flood defence projects, own delivery of minor flood defence projects, use of nature-based solutions to manage flood risks, activation of flood emergency response plans; and rebuilding infrastructure in the aftermath of extreme weather events.

Preliminary design is ongoing for the coastal defence of Portrane, Rush and Rogerstown outer estuary, and an Environmental Assessments is to be completed for the submission of a planning application to An Bord Pleanála by Q1 2023. The proposed Coastal Protection Works include the installation of specially designed Y-shaped groynes structures combined with beach supplementation and flood embankments at the Burrow and a floodwall in Rush.

The Coastal Communities Adapting Together' (CCAT) project which Fingal County Council partnered in with University College Dublin and MaREI/University College Cork and Cardiff University, Pembrokeshire Coastal Forum and the Port of Milford Haven in Wales has completed, and outputs can be viewed at <https://www.ccatproject.eu/past-events/> The project aimed to support coastal communities in understand how climate change can affect the coastline, and to support communities in becoming more resilient. Several resources are available on the CCAT website.

One study under CCAT looked at the evolution of coastal adaptation legislation, policies and plans related to coastal climate change adaptation in Ireland. The study highlights the urgent need to address a gap in policy related to coastal management and climate adaptation. This gap has posed challenges for coastal communities and local authorities in dealing with the impacts of coastal erosion and flooding. The National Coastal Change Management Strategy Steering Group was set up in September 2020 to consider a whole of Government Coastal Change Strategy and is due to report to government soon. This may lead to the set-up of a National Coastal Management Framework to support the implementation of sustainable adaptation solutions in coastal areas.

The Council has completed a county wide Strategic Flood Risk Assessment (sFRA) in 2022 and this has informed the draft County Development Plan 2023 to 2029. In addition, Surface Water Management Plans (SWMPs) are undertaken on an ongoing basis for all Local Area Plans. These plans incorporate a Flood Risk Assessment and SuDS Strategy and are carried out at an early stage of the forward planning process. SWMP and FRAs for new LAPs will be tendered and completed in line with the Planners LAP priorities under the new CDP. A new area of focus will be on Framework Plans that have been included in the new Fingal Development Plan. These framework Plans will focus on existing urban areas that will include objectives and a programme of actions to maximise the development potential of these areas. Surface Water Management Plans will be assessed in collaboration with these plans to understand existing flood risk and identify areas for nature-based drainage interventions.

The Fingal County Council SuDS guidance document (Green/Blue Infrastructure for Development) has been reviewed to include changes in technical standards. This document has been incorporated into the draft County Development Plan. SuDS are a requirement for all new developments and the document is aimed at providing advice and guidance with regard to SuDS design, 'Taking in charge' and maintenance requirements, to prospective planning applicants. These systems are designed to replicate the natural characteristics of the land and slow the post development discharge rate of surface water to reduce the potential for downstream flooding. SuDS continues to be promoted on

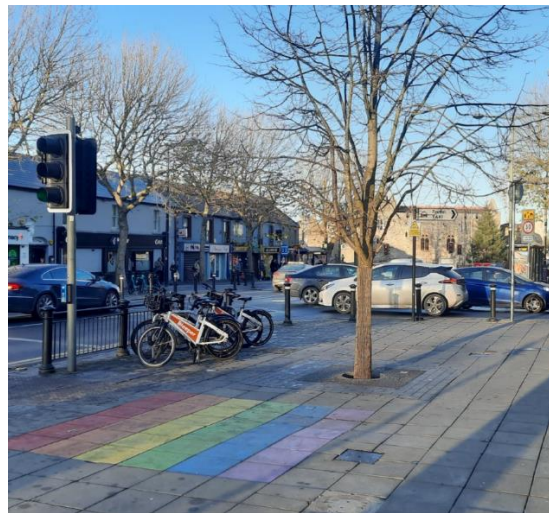
an ongoing basis by the Water Services Forward Planning Section including site workshops as well internal cross departmental training. A public engagement site visit was delivered as part of Dublin Climate Action Week 2022 again this year. This aimed at providing a greater understanding of SuDS through a walkthrough of residential developments incorporating SuDS. The Planning Section will continue the roll out of similar site walks with internal and external stakeholders to safeguard the implementation, promotion, and understanding of nature-based drainage features in Fingal and the wider Greater Dublin area.

The water services planning section will publish a new guide to assist householders in the implementation of SuDS. The 'easy to use' guidance provides useful advice when thinking about what types of SuDS features might be appropriate in a home setting and outlines key considerations before you start, ultimately encouraging people to manage rainfall more naturally in Fingal.

The Council continues to implement SuDS measure on new projects. Seven constructed tree pits were integrated on Church Street Skerries in March 2022 to replace trees removed during 2019 & 2020. The new tree pits offer the added advantage of an improved drainage function. Permeable paving has been incorporated on a new 90 space car park for the Ward River Recreational Hub.



*Tree pit under construction at Strand Street, Skerries*



Tree pit on Main Street, Swords

As a follow up to the Weather Station for Schools initiative which saw one hundred primary schools across the county granted with basic rain gauges and 16 schools granted automatic weather stations; participating schools were invited to a workshop with GLOBE Ireland as part of DCAW22. This Introduction to Weather Observation workshop took place in four schools in Swords, Blanchardstown, Malahide and Rush / Lusk and included content on weather and climate, and how to record data using equipment such as a barometer, a thermometer, hygrometer, rain gauge, anemometer, and windsock. Students were encouraged to refer to Met Éireann's weather observations website. <https://wow.met.ie/> which provides real-time weather data for several sites across the country.



*Staff from Planning & Strategic Infrastructure Department delivering an 'Urban Planning & Nature Based Surface Water Management' walk and talk event as part of DCAW22 at Millers Glen, Swords*



*Similar walk and talk event as part of DCAW21 at Castleway & Haxelbrook, Malahide*



*Detention Pond at Millers Glen, Swords that forms part of the Ward River Green corridor.*



## Nature Based Solutions:

Fingal County Council continues to undertake a variety of Nature-Based Solutions as a means of enhancing the county's resilience to the effects of climate change, mitigating against further climate change, and protecting and enhancing local ecosystems and biodiversity.

Fingal is fortunate to have an abundance of high-quality public parks and open spaces and is working to enhance this network year on year. The Council manages and maintains approximately 2000 hectares of parks and open space and ensures that these are managed in a sustainable manner. Visitor numbers to these amenities have soared in recent years, and the public may have a newfound appreciation of the health and well-being benefits that they bring following the Covid 19 pandemic.

Fingal County Council was delighted to retain six Green Flags in 2022, in recognition of the sustainable management of the following Parks and Demesne - Millennium Park, Blanchardstown, Santry Demesne, Newbridge House and Farm, Donabate, St. Catherine's Park, Lucan, Malahide Demesne, and Ardgillan Demesne, Balbriggan. In addition, Santry Community Garden, and The Rock Garden in Swords received Community Awards giving recognition to the efforts made by local community groups to improve a community green space.

Green Infrastructure can be described as a planned network of interconnected natural areas such as parks, rivers and open spaces that results in environmental, economic, and social benefits. This approach results in resilient urban landscapes adapted for and reducing the negative effects of climate change and serves to conserve natural ecosystem functions. A Green Infrastructure strategy has been developed in the draft Fingal Development Plan 2023-2029. The intention is to have green infrastructure, ecosystem conservation and nature-based solutions systematically integrated into urban planning, and public space infrastructure. Several supporting Policies and objectives support the development of a GI network, reducing the fragmentation of existing networks, ensuring the delivery of multifunctional green civic spaces to be integrated with plans for growth and development.

The Council has published a Draft Biodiversity Action Plan for Fingal covering 2022 to 2030. This plan puts forward an ambitious programme of 100 actions required to address biodiversity loss, and reverse decline in biodiversity by 2030. Fingal is lucky to have such a diverse landscape with a variety of habitats, plants, and animals, therefore it is vital that going forward Fingal develops and grows in such a way that protects and enhances biodiversity for future generations. The Council aims to develop and enhance an ecological network throughout the county to create an interconnected landscape through which wildlife can move freely and habitats and species are protected. One example of ongoing efforts to re-establish species in wetland areas has involved a number of wetland enhancement projects in St Ita's, Beaverstown and Turvey Nature Park in Donabate, St Catherine's Park near Lucan, and Racecourse Park in Baldoyle. These wetlands will have multifunctional benefits, forming part of our green infrastructure network, acting as carbon sinks to mitigate climate change, and they can also attenuate floodwaters. Informing the public on biodiversity is crucial to the success of the Biodiversity Plan and a number of outdoor and online events are being held, and a nature education centre is in planning at Turvey Nature Reserve,

The Mayor of Fingal Cllr Seána Ó Rodaigh launched the "Forest of Fingal – A Tree Strategy for Fingal" on Saturday the 26th of March 2022 during National Tree Week at a Skerries Tree Planting community workshop. The strategy was led by the Council's Parks and Green Infrastructure Division with support from colleagues in the Operations Department. The aim of this 10-year strategy is to



continually develop a thriving, diverse and sustainable tree population and boost the number of trees across the County and ensure that we have a more extensive tree canopy for generations to come. Trees have multifunctional benefits; they act as natural carbon sinks extracting carbon emissions from the atmosphere and storing carbon throughout their lifecycle. In urban regions trees provide additional benefits such as improving air quality, providing shade and reducing heat island effects, and providing habitats for wildlife. The Strategy applies to all trees, woodlands and hedgerows managed by the Council, as well as seeking to ensure that consideration is given to trees in the planning and development process. A Fingal Tree Officer has now been employed to lead on the implementation of the strategy and resources for tree management are being identified and provided. As part of National Tree Week 2022 the Council gifted 16,000 trees to the residents across the county. Other events included community planting at Skerries Mills Park and other community planting events in Ward River Valley Park and Santry Demesne. Over the weekends in December 2021, Community Tree Planting Workshops were organised for families and individuals as part of the #plantforfuture campaign. As part of this campaign, Crann Trees for Ireland facilitated a total of 355 trees being planted across 11 locations in Dublin 15 and in the Howth Malahide area.

The Council is engaged with Dublin City Council on the Santry River Restoration Project. The vision for this project is that the landscape of the Santry River would become the backbone of a new green infrastructure project, reducing flood risks, and creating a diverse range of recreational amenities and active travel facilities that will benefit local communities. The project will form a route from the biosphere of Dublin Bay at St Anne's Park to Dublin's wider hinterlands at Sillogue.

A year into the three-year wildfire prevention and habitat management project the Old Irish Goats on Howth Head are thriving under the watchful eye of their herder Melissa Jeuken. This project is being run by the Council in partnership with The Old Irish Goat Society and has a dual purpose of reducing wildfires on Howth Head as well as acting as a breeding program for Old Irish Goats. Over the past year the herd have done as expected and eaten vast amounts of vegetation, and in doing so reduced the amount of burnable vegetation, such as gorse, that is found on Howth Head. The introduction of the goats as well as the strategic placement of firebreaks will reduce the potential spread of wildfires.



*'Meet the Goats at Howth Head' walk and talk event as part of DCAW22*



*Howth Head Old Irish Goats Project- Goat herder Melissa Jeuken on Howth Head with her herd of Old Irish Goats*

## Resource Management:

The Circular Economy and Miscellaneous Provisions Act 2022 was signed into Irish law in July 2022 and sets out a statutory framework for the implementation of the 2020 Waste Action Plan for a Circular Economy and the Whole of Government Circular Economy Strategy 2022-2023. These set out high level steps to shift from a "take-make-waste" linear model to a more sustainable pattern of production and consumption, that retains the value of resources in the economy for as long as possible and has the potential to significantly reduce greenhouse gas emissions across society and across public, private, and voluntary sectors. Headline items include the phasing out single-use packaging, and the introduction of a levies on retailers in respect of single-use beverage cups, food containers and packaging from end of 2022. The Act also introduces mandatory segregation for commercial waste which will force commercial premises to manage their waste in a properly segregated manner, along with other measures and targets which will be bought in over time.

Fingal County Council and the DLA are actively considering actions which can be taken to advance the transition to a Circular Economy and intends to progress this over time. The Council continues to promote, encourage, and facilitate high levels of recycling and reuse and currently operates 59 accessible 'Bring Centres' throughout the county where the public can bring glass bottles and aluminium cans for recycling; and the Council is actively working to increase this number. In 2021 6563 tonnes of glass was collected in Fingal. In addition, there are 29 textile banks throughout the county where the public can bring unwanted clothes and other textiles for collection for reuse or recycling. On average 240 tonnes of textiles are recovered annually in Fingal from these textile banks. The Council is working with the local Green Schools to promote textile recycling. The range of household waste materials accepted at Estuary Rd, Swords and Coolmine Civic Amenity Sites include paper and cardboard, cartons, clean plastic packaging, aluminium food trays, tins and cans, glass bottles and jars, plastic bottles, textiles, WEEE (Waste Electrical and Electronic Equipment), fluorescent tubes and energy saving bulbs, car and household batteries and cooking and engine oil. Other items such as, bulky waste (furniture, carpets, mattresses), wood, metal, green waste, soil and stone, and household hazardous waste (herbicides, cleaners etc) are accepted with a small charge.

Fingal County Council supports various waste reduction / repair & reuse / circular economy initiatives in partnership with the Rediscovery Centre. Throughout 2022 Rediscover Cycling sourced 134 bikes from the Estuary Civic Amenity site. These were repaired and serviced by Rediscover Cycling staff. 42 of these bikes were donated to residents in the Baleskin Migrant Reception Centre. Rediscover Paint collected 5564 kgs of paint for ReUse from the Estuary Civic Amenity site, which was otherwise destined for hazardous waste collection and treatment. The paint was re-processed and re-packaged by trained specialists at the Rediscovery Centre and re-sold. Fingal County Council made 1646 litres of this paint available to Tidy Towns and community groups across the county.

The Fingal musical instruments project has grown with a regular supply of instruments being presented at the Civic Amenity Sites. Instruments are cleaned, repaired and re-distributed into the community for ReUse. Recipients include schools, migrant centres, centres for autism and rehabilitation, and individuals. Several local authorities are now looking at setting up this initiative. The project has been branded and a new webpage has been launched [www.replayinstruments.ie](http://www.replayinstruments.ie).

Segregated Waste bins were installed in a selection of the busier Regional Parks Picnic Areas during 2021. These bins were installed in Ardgillan Demesne, Newbridge Demesne, Malahide Demesne, St Catherines Park, Millenium Park, and an Open Space in Ongar adjacent to a playground. The bins in Ardgillan, Newbridge, St Catherines & Malahide have been used relatively successfully during 2022. The network of public contactless drinking water fountains is expanding also expanding past Regional Parks.

Fingal County Council's Community Facilities network are continuing to demonstrate their commitment to environmental sustainability and climate action through their 'Keen to be Green' Initiative. A video outlining the initiative can be viewed here: <https://youtu.be/pUJLQIPNvwY> Community Centres in the Keen to be Green Initiative are eliminating single use plastics and installing drinking water fountains at present. Many Centres have stopped selling single use plastic bottles through their vending machines and replaced them with tetra-pak water.

Food waste caddies have been distributed through seven hub Community Centres in support of National Food Waste Prevention Week in July 2022, and in support of ReUse month in October. Reusable cups have been provided to staff in 32 Community Centres and have also been made available for sale in the Council staff canteens. Single-use cups, plates and cutlery have been phased out in staff canteens.

A Reusable Cup Campaign was organised in Skerries in April 2022 in collaboration with The Conscious Cup Campaign, Skerries Tidy Towns and local 14 local businesses in the area. Reusable cups were promoted in the local cafés and businesses and promotional material supplied by Fingal County Council and The Conscious Cup Campaign. The Council supported a competition, and 14 local businesses came together to make a #wechoosereuse video encouraging reusables. Disposable coffee cups are a significant waste problem, not just in Ireland but globally. Takeaway cups are not recyclable in Ireland and many other countries. 22,000 single use coffee cups are disposed of in Ireland every hour. The Conscious Cup Campaign has prepared a Café Map where people can search for cafés in local areas which welcome reusable cups <https://www.consciouscup.ie/cafe-map.php>.

The Council provides ongoing support of An Taisce Clean Coasts, the Dublin Community Clean up week which is in partnership for the Dublin LA's, An Taisce and the Canals groups. Eight Beach Workshops were also held on four beaches during the bathing season to help inform coastal residents about marine ecosystems and litter.

Fingal County Council in partnership with the Dublin Local Authorities and the Eastern Midlands Regional Waste Office and Composting Ireland ran a 'Composting for Schools' initiative. Schools were provided with tools and instructional signage, composting solutions such as wormeries for food, and pallet composters for landscape green waste. Online and in-person training was delivered to teachers and caretakers. Schools received two site visits to help integrate composting into school life. Classroom resources and a chat forum were developed as part of the initiative to encourage ongoing participation and knowledge sharing. The Initiative received the REPAK Pakman award for Environmental Education and Awareness Initiative in 2022.

A significant number of Dublin Climate Action Week events focused on resource management, and many can be viewed at <https://dublinclimatechange.codema.ie/climate-action-week/event-resources/>. One such Fingal event featured women working in sustainability in Ireland. A panel discussion highlighted initiatives and innovations by women helping to build a better more sustainable future for Ireland. Representatives from FoodCloud - a social enterprise established to eliminate food waste, The Conscious Cup Campaign – a non-profit initiative established to eliminate single use cups, REPAK – a non-profit organisation established to tackle packaging waste and VOICE Ireland - an environmental charity set up to educate and empower individuals and communities to take action to conserve our natural resources, made for a dynamic event. A Mini Climate Festival also took place during the week at Millennium Park Blanchardstown, featuring bicycle repair workshops with the Rediscovery Centre, sustainable fashion tips from a Circular Fashion expert, food waste and composting workshops along with Climate Action and Active Travel information stands. There was live



entertainment with music from the instruments project and instrument giveaways. The event was very well attended, and an educational and fun day was enjoyed by all.

In addition to Dublin Climate Action Week, several Climate Action and Environmental Awareness campaigns have been carried out in 2022 along with several Climate and Environmental Awareness training course provided to schools, community groups and tidy towns. These included teacher climate action training, Green Schools workshops, Relove Fashion workshops, Sustainable gardening and wildflower masterclasses, tree planting workshops, composting and leaf-mould workshops, Biodiversity bus shelter campaign, Anti-Litter Anti-Graffiti Grant Scheme engagement, Stop Food waste campaign, Reuse & Recycle during ReUse month, Picker Pals, Community Clean Ups. Ecologists have been employed to engage with tidy towns and community groups to produce local ecological development plans which the groups can implement with council support.

There is a sustained social media campaign in relation to sustainable living, environmental and climate awareness, and the 'Fingal News' has a Climate Action tip in each issue.

Council supported events are becoming greener each year with a focus on environmental sustainability. Initiatives at Flavours of Fingal and other events have included free entry to those who take public transport or active travel modes to events, the provision of free / low-cost buses to transport people to/from events, provision of water refill points at venues, the use of solar powered and battery powered generators, and all vendors must use sustainable packaging, The Fingal Village at Flavours of Fingal included stands hosted by the Climate Action & Environmental Awareness staff and also our Active Travel team. The Climate Action information stand engaged with hundreds of attendees who learned about carbon footprints, sustainable options for everyday household cleaning and beauty products and SEAI grants.

A pilot Anti-Graffiti project has been trialled at Malahide beach carpark which aims to improve the appearance of bring sites; and features climate action themed bottle-bank artwork.

The Council has played its part in several multiagency operations targeting end of life vehicles (ELV's) and illegal car breaking yards. Over a two-year period (2020 – 2022) 86 illegal sites were inspected and closed down involving 340 inspections and 70 enforcement notices. Approximately 1,200 ELV's including cars, vans, and trucks with an estimated weight of 5,000 tonnes were removed to authorised treatment facilities (ATF's) for recovery and recycling. The unauthorised storage and dismantling of ELV's poses a significant risk to the environment. ELV's contain a range of hazardous materials such as waste oils, lead acid batteries, lubricating oil and brake fluid which can cause pollution if not managed and disposed of properly. Up to 90% of an ELV can be recycled at an authorised facility where vehicles are treated and recovered in an environmentally sustainable way.



*Musical Instruments donated to St. Margarets National School*



*Teacher at St Laurences School receives a repaired bicycle*



*Mini Climate Festival at Millennium Park for DCAW22*

*Climate Action & Active Travel Stands at Mini Climate Festival for DCAW22*



*Anti-Graffiti artwork at bottle bank site*



## Energy & Buildings Action Updates:

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
E1	Create Energy Master Plan for the Dublin Region	In the next 5 years	Codema	Website with e-Map	The Dublin Region Energy Masterplan, prepared by Codema, has now been completed. The masterplan provides realistic, evidence-based pathways for the Dublin region to achieve its carbon emission reduction targets to 2030 and 2050. The webpage below includes headline figures from the Dublin Region Energy Masterplan and also includes project resources links, including; a recording of the masterplan launch, a summary brochure and the full report <a href="https://www.codema.ie/projects/local-projects/dublin-region-energy-master-plan">https://www.codema.ie/projects/local-projects/dublin-region-energy-master-plan</a>	Complete
E2	Prepare Fingal Sustainable Energy and Climate Action Plan	In the next 5 years	Codema	SECAP complete	FCC SECAP was completed in Q3 of 2019. The CoM SECAP is based on the Fingal CCAP and the Fingal Baseline Emission Report 2016, the actions, energy and emission baseline inventory, adaptation baseline, the risks and vulnerability assessments, were extracted from the CCAP and uploaded to the CoM SECAP web template. The Fingal SECAP overview can be found on the CoM website <a href="https://www.covenantofmayors.eu/about/covenant-community/signatories/action-plan.html?scity_id=19779">https://www.covenantofmayors.eu/about/covenant-community/signatories/action-plan.html?scity_id=19779</a> This was submitted to CoM and accepted. Following later reviews by CoM and as these plans do not address mitigation across the wider county area (outside the LAs' direct remit/control), pre-contacting messages concerning the mitigation pillar and the feedback reports were sent to the 4 local authorities informing the DLAs that the SECAPs were deemed not to meet the new CoM SECAP requirements to address county-wide mitigation targets. A decision will be made on the development of new SECAPs.	Complete
E3	Prepare Local Authority Renewable Energy Strategy	In the next 5 years	Planning & Strategic Infrastructure	Strategy prepared	The Council supports the development of Renewable Energy projects through objectives in the Development Plan, the review and preparation of a new one has commenced. We will engage with the DLA & Codema to determine the most advantageous timeframe for the development of an overarching strategy document, and will be informed by the work to date on Codema's Energy Masterplan.	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
E4	Outputs and recommendations from the Fingal Spatial Energy Demand Analysis (SEDA) 2016 to inform the review of the Fingal Development Plan 2017-2023	In the next 5 years	Planning & Strategic Infrastructure	Content in Development Plan review	Codema has completed an energy and carbon assessment of the CDP 2023-2029. This report provides planners with an evidence which consider local characteristics and spatial constraints in delivering the objectives set out in the Planning Development Act, National Planning Framework, and Eastern and Midland Regional Assembly's (EMRA) Regional Spatial and Economic Strategy (RSES). This has informed the CDP review.	Complete
E5	Complete the roll out of LED public lighting by 2021 (27,000 units remaining)	In the next 5 years	Operations	100% of lighting converted to LED by 2021	95% complete at present and should be complete in 2022.	Ongoing
E6	Fingal Energy Management Team established	In the next 5 years	Corporate Affairs	Team established	Team Established, working proactively and meeting Bi-Monthly	Complete
E7	Develop ISO 50001 compliant energy management system	In the next 5 years	Corporate Affairs & Codema	System developed and ISO 50001 compliant	FCC completed re-certification of ISO 50001:2018 Energy Management System Audit on 14th July 2022 and have been successful in compliance to relevant standard with a new Certification body.	Complete
E8	Comply with S.I. 426 under the EU (Energy Efficiency) Regulations 2014	In the next 5 years	Corporate Affairs & Codema	Compliant	Compliant under ISO certification.	Ongoing
E9	Procure upgrades through an Energy Performance Contract for County Hall (Swords) and Civic Offices, Draíocht Arts Centre and public library in Blanchardstown	In the next 5 years	Corporate Affairs	EPC awarded, measurement and verification of energy savings	The contract was awarded and signed on 1st December 2021 between FCC and Lawler Sustainability. The implementation stage is due to be completed October 2022. Following a dialogue meeting held with the ESCO in July 2020, it was decided to proceed to the next stage excluding the Draíocht Arts Centre & Library, Blanchardstown from the EPC. These premises are now in planning stage for an additional EPC.	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
E10	Participate in the SEAI Energy Public Partnership Programme	In the next 5 years	Corporate Affairs	Signed up to programme	FCC has completed this programme with the SEAI	Complete
E11	Annual Monitoring & Reporting to SEAI	In the next 5 years	Codema	FCC's energy use monitored and reported	Ongoing. 2021 M&R process complete	Ongoing
E12	Publish Fingal County Council's Energy Review annually	In the next 5 years	Codema	Review published, # of recommendations implemented	FCC 2020 Energy Review was completed in June 2022. The energy review document has been carried out as part of the FCC ISO 50001 EnMS. The Energy Review highlighted the total amount of energy FCC consumed in 2020 along with total cost and carbon emissions associated with the Energy Use. The scope and boundaries of the EnMS is all energy consumption under the control of FCC. A substantial decrease in primary energy consumption in 2020 compared to 2019 is shown. Most of the reductions came from the LED upgrade programme under Public Lighting. There were also smaller reduction in Large offices, operations and vehicles. 2021 Energy Review is currently being prepared.	Ongoing
E13	Display Energy Certificates for public buildings	In the next 5 years	Codema	# of DECs generated for public buildings	DECs for all relevant buildings have been completed and published. 7 in total. Display Energy Certificates are required for public buildings over 250m2 and frequently visited by the public. DECs for all relevant buildings have been completed and published.	Ongoing
E14	All new Council buildings built to nZEB standard	In the next 5 years	All Departments / Architects	All new builds nZEB standard	Ongoing. National Building Regulations to achieve nZEB standard applied and met on new buildings commissioned by the Council	Ongoing
E15	Refurbishment programme for Fingal Corporate buildings to include energy reviews and retrofits as standard	In the next 5 years	All Departments / Architects	# of buildings upgraded	Energy monitoring of Fingal Corporate buildings by Building Facilities Team is ongoing. Energy Performance Contracting progressing on larger civic buildings. Replacement of internal lighting with more efficient LED type completed at largest corporate buildings at County Hall and Grove Road in 2022 and progressing in Libraries. PV panel pilots on roofs have commenced at County Hall and Grove Road in 2022.	Ongoing
No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status

<b>E16</b>	Boiler replacement programme in social housing stock underway	In the next 5 years	Housing	150 boilers upgraded annually	The Boiler Replacement Programme now falls under the 2021 Energy Efficiency Retrofit Programme and boiler replacements are only carried out on an emergency basis as a result of heat loss or a H&S risk. This action will now be closed out as the Energy Efficiency Retrofit Action is in line with current Government Policy.	Complete
<b>E17</b>	Insulation of all council owned social housing stock; extended to include acquisitions and long term leasing where feasible	In the next 5 years	Housing	All Council owned social housing insulated by 2019	Social housing stock and acquisitions complete. Under the terms of the LTL Scheme, the property owner has responsibility for the structure of the property. This action will now be closed out. Ongoing Social Housing Energy Efficiency Upgrades under the Energy Efficiency Retrofit Programme.	Complete
<b>E18</b>	LED lighting changeover of social housing voids and tenant changeover	In the next 5 years	Housing	100% of all voids and re-lets upgraded	100% of voids and re-lets upgraded as standard.	Ongoing
<b>E19</b>	Complete single glazing replacement programme in social housing stock and extend to include long term leases and acquisitions	In the next 5 years	Housing	All single glazing replaced by 2019	Action Complete. 100% complete for council owned social housing stock and acquisitions. Under the terms of the LTL Scheme, the property owner has responsibility for the structure of the property. This action has been closed out. Ongoing Social Housing Energy Efficiency Upgrades under the Energy Efficiency Retrofit Programme.	Complete
<b>E20</b>	Conduct a pilot to deep retrofit social housing voids to inform potential for roll out for all stock	In the next 5 years	Housing	Pilot underway	In 2022 it is intended to exceed the DHLGH targets set for Fingal County Council in the Energy Retrofit Programme 2023 of 85 homes being brought up to a minimum B2 energy rating.	Ongoing
<b>E21</b>	Automatic shutdown of computers and lighting in all of Fingal's offices and depots	In the next 5 years	I.T., Facilities Management	# of systems installed	Automatic shutdown of computers is complete. Lighting in County Hall is currently being upgraded to LED with upgraded motion sensors. Lighting in Grove Road offices is currently being upgrade to PIR sensors, both these projects are being installed as part of the EPC process. Lighting in Libraries and Depots are manually controlled and shut down by on site staff.	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
E22	Study potential for viable district heating projects within Fingal	In the next 5 years	Codema / Climate Action	Study complete	The Dublin Region Energy Masterplan has shown the potential for DH within the county. FCC have commissioned Codema to complete a techno-economic analysis for a potential DH network in the Blanchardstown area to produce an Outline Business Case report.	Ongoing
E23	Study potential for viable renewable energy projects on a temporary/permanent basis, on council controlled lands	In the next 5 years	Climate Action / EETD	Study complete	Consultants appointed to undertake a feasibility study of installing Photovoltaic panels on the former Balleally landfill site, in compatibility with the masterplan for the Park. Grid connection review found that it would be currently not viable given infrastructural and ESBN grid connection policy limitations concerning dual / hybrid connections.	Ongoing
E24	Work with SMEs in partnership with SEAI to promote energy efficient adaptations	In the next 5 years	LEO / EETD	# of SMEs availing of funding from SEAI	LEO/SEAI collaboration continues to examine initiatives to promote sustainable business. As part of DCAW21 a webinar targeted at SME's and the business community to promote the circular economy was held with a panel from EETCD/LEO/Fingal Leader/Fingal Chamber. This can be viewed at <a href="https://dublinclimatechange.codema.ie/climate-action-week/event-resources/">https://dublinclimatechange.codema.ie/climate-action-week/event-resources/</a>	Ongoing
E25	Engage with SEAI to help develop education programme for SME sector	In the next 5 years	LEO / SEAI	# of programmes developed/delivered	FCC continues to promote the SEAI Energy Academy course amongst SMEs in Fingal to help business save energy & lower costs to help business grow <a href="https://www.seai.ie/energyacademy/">https://www.seai.ie/energyacademy/</a> The Green for Micro programme has a target of 22 businesses in 2022, currently 16 businesses have participated	Ongoing
E26	Support Small Business Innovation & Research (SBIR) programme	In the next 5 years	Corporate / IT	Energy and climate change challenges identified for SBIR programme	The Council utilised the SBIR programme as a mechanism for innovative approaches under the Digital/Smart Fingal programme. However, opportunities to participate in the SBIR programme can be limited by the process which requires the approval of and funding by Enterprise Ireland. The Council has therefore expanded the mechanisms used for innovation re Digital/Smart Fingal including other national programmes and internal programmes. The following initiatives have been progressed via the various innovation mechanisms - * Weather Station Rain Gauges for Schools, 2021 pilot funded by FCC Chief Executive Innovation Fund. * Digital Beach Signage, 2021-2022 pilot part-funded by FCC Chief Executive Innovation Fund.	Ongoing



No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
					<p>* Smart Mobility Hub, 2021 -2022 pilot funded by the SBIR Programme.</p> <p>* Smart Ring Buoys, 2020-2021 pilot supported by Dublin Local Authorities Innovation Challenge.</p> <p>*Open Data Climate Action Challenge pilot supported by DPER Open Data Engagement Fund.</p> <p>* Mobility as a Service (MaaS), 2020-2021 paper funded by DPER Public Service Innovation Fund.</p>	
<b>E27</b>	Work with CARO / Codema on research and project proposals for grant funding	In the next 5 years	Climate Action / CARO / Codema	# of research projects initiated	<p>Fingal County Council is an active partner with Codema in H2020 DeliveRee project, other project applications are in discussion. The deliveREE project will help with the project development aspects to deliver over €20m worth of energy efficiency and renewable energy projects across all four DLAs. The projects will fund work to establish a replicable project delivery system that will facilitate the production of procurement and legal templates, audits and aggregation of projects. CARO and Codema continue to work together to identify other research opportunities and funding streams that are available for climate and energy related projects. However participation and submission of applications for these projects is resource and staff dependant at an LA level. The CARO website <a href="http://www.caro.ie">www.caro.ie</a> and the CARO / Codema newsletters are repositories for this information. CARO submitted a successful application to the Creative Ireland Climate Action Fund. The project entitled 'Línte na Farraige' is a collaborative project which seeks to connect the public visually and tangibly to the risks from future sea levels. It consists of a series of light illuminations projected onto land-based sites to show sea level rise and storm surge. Communication tools such as a website, information boards and a social media campaign have been devised to engage the public on climate action. The project launched in Galway in Q4 2022.</p>	Ongoing
<b>E28</b>	In all Council building projects, new build or retrofit, Swift Bricks or other nesting sites for swifts will be provided	In the next 5 years	All Departments / Architects	# of nesting sites provided	<p>Swift boxes being installed at current projects on site Cappaghfinn Housing (5 number), Church Fields 2B Housing (6 number), Skerries Library (17 number). Provision made to include at Monastery Court, Lusk Housing (4 no) expected on site Q4 2022. Requirements to provide assessment included in design team briefs. Assessments ongoing on each building site to determine suitability and included where practical.</p>	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
	where practicable.					
<b>E29</b>	Monitor and develop the Home Energy Saving Kits scheme in Fingal Libraries	In the next 5 years	Community, Codema	Borrowing rates from libraries	An additional 10 Home Energy Saving Kits have been added to the Fingal Libraries stock in September 2022, bringing the total to 25 kits across Fingal Libraries. Codema continue to provide energy saving resources and social media content to maintain interest in the Home Energy Saving Kit scheme.	Ongoing
<b>E30</b>	Annual energy awareness event	In the next 5 years	Climate Action / Codema	Annual event held	A Sustainable Energy Community information webinar was held for councillors in April 2021, followed by a public information webinar in May 2021. A number of Energy Awareness webinars were hosted by Codema for Dublin Climate Action Week 2021 & 2022. Recordings are available at <a href="https://dublinclimatechange.codema.ie/climate-action-week/event-resources/SEAI">https://dublinclimatechange.codema.ie/climate-action-week/event-resources/SEAI</a> attended the Climate Action stand at Flavours of Fingal 2022 and promoted their grant programmes. Codema Home Energy Savings Kits have been promoted on social media in September 2022.	Ongoing
<b>E31</b>	Promote and support SEAI's Better Energy Communities and Sustainable Energy Communities	In the next 5 years	Climate Action / All Departments	# of communities supported	Fingal has accepted the role as Lead Partner Applicant for SEC's in the Fingal area and works to actively promote & support the programme. There are currently 20 SEC's in Fingal, seven of which were added in 2021, and three added to date this year. Council staff engage with the SEAI assigned mentor and with Codema who are the regional coordinator in facilitating the programme. An information evening for councillors was held in April 2021 and a public information webinar on 26th May 2021. Codema hosted a knowledge sharing event for SEC's as part of DCAW22.	Ongoing
<b>E32</b>	Develop and encourage CPD training in energy awareness amongst Fingal staff	In the next 5 years	All Departments / Architects	Ongoing programme	The Local Authority Climate Action Training Programme is progressing under the management of the Local Authority Services National Training Group (LASNTG). To date staff in Fingal County Council have completed training in Raising Awareness (which is targeted at all indoor staff, grade 3-7); Building Capacity (which is targeted at staff working within the Climate Action Team), Championing Leadership (which is targeted at Senior Management and Elected officials) and Empowering Change (which is targeted at those working with the community). Training has also taken place on climate action and planning, flood risk management and green public procurement. CARO also make local authorities aware of other training opportunities by other providers, for	Ongoing

					<p>example SEAI Energy link (ISO 50001, carbon basics etc.)</p> <p>Energy awareness training is ongoing: Architects: Irish Green Building Council seminars/webinars including a programme focused on Whole Life Carbon Training provide part of annual in house CPD requirements. Monthly IGBC bulletins and access to webinars circulated to staff to raise awareness of training opportunities and issues. Conservation team have participated in seminars related to energy renovations for traditional buildings. For in house design on a small project, piloting carbon and life cycle analysis tools at initial design stage using BIM for possible wider rollout.</p>	
No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
E33	Expand tenant induction programme to include tenant energy awareness	In the next 5 years	Housing / Architects	100% of tenants provided with energy saving tips	Action complete. The tenant induction programme has been expanded to include tenant energy awareness and all tenants are provided with energy savings tips.	Complete
E34	Install high visibility PV panels on suitable Council roofs such as libraries and community buildings	In the next 5 years	Facilities Management	Panels installed	Solar PV has been installed on both County Hall, Swords and Grove Road offices. PV expansion is now being explored on both buildings to include 25kw battery storage back up which for both buildings. A feasibility study is taking place to include Libraries, Depots and heritage buildings for Solar PV installation. The DeliveREE project is ongoing.	Ongoing
E35	Conduct research and case studies on appropriate and sensitive retrofitting/energy upgrading of traditional buildings to inform works to Council owned properties and to guide private owners.	In the next 5 years	Planning & Strategic Infrastructure	Case studies completed	The Conservation Officer has undertaken CPD on Fundamentals of energy renovations for traditional buildings. It is intended to carry out case studies of Council owned historic properties in 2023/2024 work programme permitting	Ongoing



## Transport Action Updates:

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
T1	Install quality teleconferencing facilities between Blanchardstown and Swords	In the next 5 years	I.T	Facilities installed	Microsoft Teams has been rolled out to all staff. Also, in response to the COVID-19 pandemic, laptops have been issued to all staff who require the use of computers for their work. Accordingly, all office staff now have videoconferencing services available to them. Meeting room technology upgrades providing video-conferencing facilities have now been installed in nine meeting and conference rooms across both sites.	Complete
T2	Modernise the workplace to facilitate flexible working arrangements to reduce staff travel (e.g. Skype)	In the next 5 years	Human Resources & I.T.	Modernisation programme underway	Blended working Policy in operation since August 2022. Digital Workplace Programme is continuing. * Office365 implementation (including MS Teams) is complete; * All office staff have been issued with laptops; * Telephony system replacement is complete; * Sharepoint Online project in progress - 13 out of 15 Departments completed; * CRM Online project has commenced - phases 1&2 complete and project due for completion Q2 2023; * Fieldwork and Asset Management in planning - discovery phase to commence in 2023.	Ongoing
T3	Implement carbon offset programme for official flights and investigate an appropriate offsetting scheme for the Council's other business travel emissions.	In the next 5 years	Corporate & Climate Action	Programme implemented	It is proposed that Business Travel by will be included as a reportable area under the revised SEAI M&R system for the Public Sector which is currently being finalised. Whilst offsetting will not be allowable as a mechanism to achieve Public Sector targets, some organisations have used it to invest in local and international environmental projects such as tree planting and eco cooking stoves. A draft Offsetting guide has been circulated to FCC by CARO and FCC are considering local offsetting options in alignment with appropriate DECC and SEAI guidance on GHG reporting.	Ongoing
T4	Promotion of Cycle-to-Work Scheme for Council staff	In the next 5 years	Human Resources	# of staff availing of scheme	Ongoing. Advertised in January 2022. Advertised throughout the year on staff messages. Promotion of Cycle to Work for 'Bike Week'. 35 staff availed on the scheme so far this year.	Ongoing



No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
T5	Provide an electric vehicle in County Hall courtyard and Blanchardstown for use by staff travelling to site visits and meetings	In the next 5 years	HR & Operations	EVs provided	The Fingal County Council Smart Mobility Hub phase two pilot was launched in September 2021. The pilot project ended in August 2022. The data from this pilot is currently being analysed and a report with recommendations will be made. The pilot involved the installation of EV charging infrastructure, a vehicle booking application, 2 electric cars and 4 electric bikes. Staff were encouraged to use the electric vehicles when traveling to meetings/site visits and a number of staff lunchtime cycles were arranged to support staff to get active and change mobility behaviours.	Ongoing
T6	Continued electrification of the Council's vehicle fleet as market technology develops	In the next 5 years	Operations	% of total fleet converted to EVs	There are 59 fully electric vehicles in the fleet ie 31% of the transport fleet is now fully electric.	Ongoing
T7	Expand availability of EV charging points for Council staff and operational vehicles	In the next 5 years	Operations	# of charging points	Adequate provision relative to EV coverage. 58 chargers across 24 sites.	Ongoing
T8	Electric vehicle charge points to be provided in car parking for new Fingal Corporate buildings and social housing where technically feasible	In the next 5 years	All Departments & Architects	# of EV charge points provided	Ongoing: EV charging Infrastructure (ducting and cabling), is included on social housing construction to allow for fitting unit if occupant has EV vehicle. EV charging infrastructure included in design briefs for new Corporate and Community buildings and assessments of feasibility requested on refurbishment briefs. EV charging points included in proposals for Community Centres at Meakstown (expected on site Q1 2023) and Baldoyle Racecourse Park (expected on site Q4 2023)	Ongoing
T9	Provide eco driving training to Council drivers	In the next 5 years	Human Resources	# of staff trained	Our Training Section has engaged commercial trainers on this. Procurement is underway with scheme due to launch in Jan 2023.	Ongoing
No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status

<b>T10</b>	To plan spatial development patterns which reduce transport demand and encourage low carbon transport modes. E.g. consolidation of the existing communities already served by public transport and close to established social and community infrastructure and the creation of new communities serviced by high quality transport links	In the next 5 years	Planning & Strategic Infrastructure & Operations	Kms of cycle routes, # of schemes completed	Planning for Action is set out in Development Plan and is enacted in Development Management. Reporting of indicator is tied into actions T12, T13, T15, T17, T18, T24..	Ongoing
<b>T11</b>	Promote the installation of EV charge points in curtilage, for all new house constructions in Fingal	In the next 5 years	Planning & Strategic Infrastructure	Policy adopted	Policy in relation to the installation of EV charge points has been incorporated into the draft County Development Plan 2023-2029. Promotion of EV charging points takes place during pre-planning.	Ongoing
<b>T12</b>	Build out Fingal's cycle network offering direct routes to local destinations and public transportation hubs. Develop linked cycling trails, greenways and green belts for recreation and biodiversity protection	In the next 5 years	Planning & Strategic Infrastructure / Operations	Kms of cycle routes, # of schemes completed	Large number of projects ongoing. Substantial progress being made. See action T13 & T15 for projects and T17 for link ups.	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
T13	Advance the provision of new cycle networks across the County such as the Fingal Coastal Way, the Sutton to Malahide Cycleway, the Broadmeadow Way, the Harry Reynolds Road Cycle Route and the Royal Canal Urban Greenway, etc.	In the next 5 years	Planning & Strategic Infrastructure / Operations	Kms of cycle routes, # of schemes completed	A number of projects at various stages of design, planning and construction. Substantial progress is being made. For example: Fingal Coastal Way underwent non statutory public consultation in 2022 and is now undergoing preliminary design and environmental evaluation. Ground investigation and advance works projects are ongoing on Broadmeadow Way. Second stage public consultation started in August 2022 on the Royal Canal Greenway. Advance works have taken place on the Harry Reynolds Road Cycle Route in 2022. The Sutton-Malahide Cycle Route underwent public consultation in 2022 - see: <a href="http://www.fingal.ie/suttonto_malahide">www.fingal.ie/suttonto_malahide</a> . The Church Field Road and Cycle Network went to construction in 2022.	Ongoing
T14	Support the Greater Dublin Cycling Network Plan	In the next 5 years	Planning & Strategic Infrastructure / Operations	Kms of cycle routes, # of schemes completed	Support of the Plan is incorporated into the Development Plan and is a part of P&SI Dept ongoing programme of projects and plans.	Ongoing
T15	Advance the construction of the following road schemes which will include a high quality cycle network - Donabate Distributor Road, Rathbeale Road Upgrade and Snugborough Interchange and Ongar - Barnhill Link Road, etc.	In the next 5 years	Planning & Strategic Infrastructure / Operations	Kms of cycle routes, # of schemes completed, map produced	Donabate Distributor Road complete. Rathbeale Road upgrade complete. Park Road upgrade complete. Ongar-Barnhill Road Scheme well advanced. Snugborough Interchange Scheme is currently under construction and advancing well.	Ongoing
No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status

<b>T16</b>	Implement traffic calming programme including provision of new signalised pedestrian crossings	In the next 5 years	Operations	# of traffic calming measures	Ongoing. Within works programme, approx 26 provided in 2019 - 2020. For example - a new 4 armed roundabout has been provided in Carpenterstown with Zebra crossing improving access for school children. Likewise, a mini roundabout has been provided in Skerries at the Barnageenagh Road Jn with Dublin Road. 2021: Balbriggan Swords: 1 toucan x-ing, 1 ped x-ing. 16 ramps, 5 VAS. Castlenock Mulhuddart Ramps replacements, Footpath buildouts, 4 VAS, 2 zebra x-ings. Howth Malahide 3 ped xings upgraded, 3 calming schemes, 2 footpath buildouts, 3 VAS.	Ongoing
<b>T17</b>	Regular maintenance of regional and local roads to encourage modal shift to cycling	In the next 5 years	Operations	Km of roads maintained that facilitates modal shift	Active Travel measures consider in co-ordination with the yearly Area Work Programmes and the 3 year Capital Roads Programme. Installation of pedestrian crossings, speed ramps, junction improvements, vehicle activated signage.	Ongoing
<b>T18</b>	Improve conditions and uptake of cycling through public realm / local area plans	In the next 5 years	Planning & Strategic Infrastructure / Operations	# of projects implemented, # of and kms of planned cycle paths	Local Area Plans, Public Realm have been undertaken in accordance with agreed P&SI programme of plans and projects; and contain requirements for cycling infrastructure.	Ongoing
<b>T19</b>	Re-organisation of allocation of space to pedestrians in the public realm	In the next 5 years	Planning & Strategic Infrastructure / Operations	Pre and post surveys of pedestrian numbers	This is implemented as part of Urban Framework Plans, Public Realm Projects and other local plans. Fingal recognises the importance of vibrant urban centres, and associated quality of life and wellbeing, and acknowledges that a greater balance between users is required with the emphasis on an improved pedestrian environment, and aims to deliver through these plans.	Ongoing
<b>T20</b>	Increase the quantity of bicycle stands in the public domain	In the next 5 years	Operations	Projects implemented, # of bike stands	Contractor is currently installing new bike stands in Dublin 15 which will allow a further 50 bicycles to securely park. To date 476 bike locking facilities have been delivered that are distributed across the 7 Fingal Local Electoral Areas. Locations are a variety of playgrounds, skateparks, beaches, town and village centres, sports clubs, schools and shopping amenities. Ongoing work will continue with assessing suggested locations to include in future work packages to be delivered in 2023.	Ongoing
<b>No.</b>	<b>Action</b>	<b>Time-Frame</b>	<b>Lead</b>	<b>Indicators</b>	<b>Progress Report 2022</b>	<b>Status</b>
<b>T21</b>	Expand Bike Sharing	In the next 5 years	Operations	# of bikes provided	The Bleeper Bike Share Scheme continues to run across the County with an average of 125 bikes available at all times. This pilot	Ongoing

	Schemes in urban areas				expansion has now been extended up to 31st November 2022. The Tier eBike Share Scheme was launched on the 20th June 2022 with 100 eBikes delivered across Blanchardstown, Swords, Malahide, Portmarnock, Baldoye and Howth. At the beginning of August we deployed extra eBikes in the Dublin 15 area and expanded the service to Rush, Lusk and Donabate, bringing the number of ebikes in Fingal to 150. Skerries and Balbriggan are to follow by the end of September. The ESB eBike pilot project launched on the 17th August 2022 across 5 locations in Fingal hosting 40 eBikes for hire. 3 sites are located on Fingal land in Swords, Malahide and Howth with 2 further sites located on private property in Santry and Blanchardstown. This scheme is co funded by Intereg North-West Europe and is to run for 10 months initially.	
<b>T22</b>	Promote and facilitate additional car sharing schemes	In the next 5 years	Operations	# of cars provided	Car Sharing was rolled out a number of years ago. GoCar have a car at a number of locations across the county. The community car share scheme re launched in Skerries and it is hoped that this service will be expanded to other locations	Ongoing
<b>T23</b>	Develop a policy with NTA for the provision of Park & Ride facilities across the County	In the next 5 years	Operations, Planning & Strategic Infrastructure	Policy developed and sites identified	Ongoing. FCC Active Staff are engaging with NTA / TII on policy formation and to identify potential sites. NTA have appointed consultants to review site options.	Ongoing
<b>T24</b>	Support the development and expansion of existing public transport services including MetroLink, BusConnects and DART expansion to Balbriggan	In the next 5 years	Planning & Strategic Infrastructure	Public transport supported	Ongoing liaison and consultation with Irish Rail and the NTA in the design and integration of these projects.	Ongoing
<b>No.</b>	<b>Action</b>	<b>Time-Frame</b>	<b>Lead</b>	<b>Indicators</b>	<b>Progress Report 2022</b>	<b>Status</b>
<b>T25</b>	Expand the availability of EV charge points in towns and	In the next 5 years	Operations	# of charging points	The four Dublin Local Authorities, CARO and SMART Dublin comprise the EV Regional working group which launched Dublin's first Electric Vehicle Strategy in June 2022. The strategy will allow each local authority to	Ongoing



	villages in line with national policy as it develops				examine how they can best facilitate the provision of electric vehicle-charging infrastructure across the Dublin region and the scale of investment required. Codema have been appointed to provide assistance in preparation of a procurement plan for the delivery of infrastructure.	
<b>T26</b>	Identify and put in place the resources necessary to develop and implement a cycling strategy	In the next 5 years	Operations	<i>Resources assigned</i>	This action is complete and Fingal County Councils Active Travel Strategy is in place.	Complete

### Flood Resilience Action Updates:

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
<b>F1</b>	Implement The Planning System and Flood Risk Management - Guidelines for Planning Authorities (2009)	In the next 5 years	Planning & Strategic Infrastructure	# of projects following guidelines	The Guidelines are implemented on every planning permission which requires input from the Water Services Forward Planning Section.	Ongoing
<b>F2</b>	Undertake Strategic Flood Risk and SuDS Assessments for all LAPS, SDZs and development plans	In the next 5 years	Planning & Strategic Infrastructure	Assessments completed	All the FRAs are now either complete or will be complete shortly. Once the County Development Plan for 2023 to 2029 is complete, FRAs for the new LAPS will be tendered and completed in line with the Planners LAP priorities.	Ongoing
<b>F3</b>	Finalise a SuDS policy in collaboration with all Fingal departments	In the next 5 years	Planning & Strategic Infrastructure	SuDS policy finalised	Action Complete. The FCC SuDS policy is now part of the Blue/Green Infrastructure specification for all new developments.	Complete
<b>F4</b>	Mid-term review of the Strategic Flood Risk Assessment (SFRA) for the County Development Plan	In the next 5 years	Planning & Strategic Infrastructure	Review complete	The SFRA is complete for the Fingal Development Plan 2023 - 2029 Draft Plan.	Complete
<b>F5</b>	Protect and conserve floodplains, wetlands and coastal areas subject to flooding through available policy instruments	In the next 5 years	Planning & Strategic Infrastructure	Map of areas to be protected, # of hectares protected	Identification of areas undertaken through Strategic Planning Process in SFRA of Plans and Projects.	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
F6	Assess the feasibility of green roofs on all new Fingal public, operational and social buildings and provide where viable and appropriate	In the next 5 years	All Departments / Architects	Assessments completed and provided	Assessment of green roof provision on new public buildings ongoing and included in scope of consultant appointments and tender documentation for Meakstown Community Centre. Green roof included in planning for Swords Cultural Quarter (granted planning Q3 2022) and will be included in planning for Baldoyle Community Centre (expected Q2 2023). External funding source and budgetary constraints limit installation of green roofs on social housing developments.	Ongoing
F7	Update Council Emergency Response Plans to include flood event response	In the next 5 years	Corporate / Operations	Plans completed and updated yearly	Plans in place and kept under review	Ongoing
F8	Develop template for extreme weather events to capture details, response and costs (including ecosystem services/natural capital costs) for all major climate events	In the next 5 years	Corporate / Finance	Template developed and issued	The CARO have developed a mobile data collection App named WIRE (Weather Impact Register) for local authority staff to record the impacts of weather events. The data collected by the App can be accessed via an online Map Viewer and Data Dashboard with spatial analysis and reporting functionality to assist climate adaptation planning. The WIRE App was piloted in a number of local authorities in 2020/2021, after which upgrade work was completed with the finalised App launched in 2022. CARO are working with interested LAs to implement the system across Climate Action Teams and wider Local Authority teams. CARO are also working to link other data collection systems in use in LAs, such as MapAlert, with the WIRE App dataset. For further information contact wire@caro.ie	Ongoing
F9	To engage with the Fingal Coastal Liaison Group with the integration of adaptation strategies into planning policies, etc.	In the next 5 years	Planning & Strategic Infrastructure	# of meetings held each year	Council officials meet with the Coastal Liaison group 2-3 times per year. This has led to good communication and appreciation of shared interests. Public Information Process relating to the Rogerstown Outer Estuary Coastal Flood/Erosion management process has been completed	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
<b>F10</b>	Develop a climate change impact GIS risk map with scenarios for the Dublin Region	In the next 5 years	Climate Ireland / Environment / All Departments	GIS map developed	CARO in conjunction with Climate Ireland have published a climate change risk and vulnerability assessment methodology which is available via the Local Authority Portal on the CARO website. The risk assessment methodology will be trialled across the local authorities in the Atlantic Seaboard North Region in Q3/Q4 2022, the learnings from which will inform further development and implementation of a methodology across the sector.	Ongoing
<b>F11</b>	Archaeological and heritage assets to form part of all climate risk assessments including opportunities for integration of cultural heritage in adaptive mitigations e.g. green infrastructure, cycle ways, nature-based solutions etc.	In the next 5 years	Planning & Strategic Infrastructure	Assets included in risk assessments	Ongoing. Heritage Officer has inputted on opportunities for integration of cultural heritage into the Fingal Coastal Way and other strategic initiatives.	Ongoing
<b>F12</b>	Identify projects and opportunities for collaboration with relevant stakeholders to assess and prioritise cultural heritage sites vulnerable to climate change	In the next 5 years	Planning & Strategic Infrastructure	# of projects participated in	Ongoing. The Heritage Officer is a member of of the Climate Change Sectoral Adaptation Plan for Built and Archaeological Heritage Planning Team Working Groups whose remit includes collaboration with relevant stakeholders. The identification of cultural heritage sites vulnerable to climate change within the UNESCO Dublin Bay Biosphere has been identified as a priority action of the Heritage, Tourism and Local Economy Subcommittee. The Fingal Thatch Project 2022 supported by the Heritage Council is a survey of thatch structures in Fingal that are particularly vulnerable to the effects of climate change.	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
<b>F13</b>	Develop and implement Coastal Protection Plan for Portrane	In the next 5 years	OPW / Planning & Strategic Infrastructure	Plan produced and actions implemented	Preliminary design ongoing for coastal defence project and Environmental Assessments to be completed for the submission of a planning application for the proposed Coastal Protection Works in Q1 2023.	Ongoing
<b>F14</b>	Progress OPW flood protection scheme at Mill Stream Skerries	In the next 5 years	OPW / Water Services & Environment	Project completed	The schemes are being assessed by the OPW under a scheme viability revision process.	Ongoing
<b>F15</b>	Progress OPW flood protection scheme at Bissett Strand and The Green Malahide Village	In the next 5 years	OPW / Water Services & Environment	Project completed	The schemes are being assessed by the OPW under a scheme viability revision process.	Ongoing
<b>F16</b>	Progress OPW flood protection scheme at Portmarnock Bridge	In the next 5 years	OPW / Water Services & Environment	Project completed	The schemes are being assessed by the OPW under a scheme viability revision process.	Ongoing
<b>F17</b>	Continued engagement with the OPW to progress further studies of areas within Fingal at risk of flooding, and development of suitable schemes such as Strand Road Sutton and Santry	In the next 5 years	OPW / Water Services & Environment	Schemes identified	Fingal is engaged with Dublin City Council on the Santry River Restoration and Greenway Project. A public consultation is planned for Oct 2022.	Ongoing



No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
F18	Develop a coastal monitoring programme to measure coastal erosion along the Fingal coast	In the next 5 years	Coastal Liaison Group, Planning & Strategic Infrastructure	Monitoring programme set up	Pilot monitoring work by OPW in Rogerstown Estuary ongoing with topographical and bathymetric information provided to FCC. Council has introduced weather stations in the locality to correlate weather data with other Coastal Change information.	Ongoing
F19	Identify sites where flood defence features can be removed or relocated to increase flood capacity of rivers and estuaries	In the next 5 years	Planning & Strategic Infrastructure	# of sites identified	Five sites identified adjacent to estuaries. Lands to be acquired, but landowners not interested in selling or required funding not available.	Ongoing
F20	Restore St Ita's wetlands to maximise water attenuation capacity and nature conservation benefits	In the next 5 years	Planning & Strategic Infrastructure	% of wetland restored	Wetland restoration almost complete and grazing introduced. Haul road removal from wetland planned for Q4 2022. DDR restoration works also completed.	Ongoing
F21	Record on a GIS layer the council surface water system and make it available to all relevant staff from Operations & Planning. This must include all SuDS systems and flood embankments	In the next 5 years	Water Services, Operations, Planning & Strategic Infrastructure	Surface water system recorded on GIS layer	FCC Water Services department are currently working with FCC IT to establish a functional GIS system and are training staff to update and maintain the GIS system. This is an ongoing process. Once the GIS infrastructure is in place, establishing the layer for the stormwater network and updating this will commence, followed by liaison with other departments to include layers for SuDS systems and flood embankments.	Ongoing
No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status

<b>F22</b>	Prepare a maintenance register for the entire surface water system within the county, including SuDS, pipes and culverts to aid proactive maintenance, alleviate flooding and maintain water quality	In the next 5 years	Water Services, Operations, Planning & Strategic Infrastructure	Maintenance register created	A Maintenance Register for the stormwater pipe network has been established and is currently being developed, with the aim to supplement the reactive maintenance with further proactive maintenance in 2022.	Ongoing
<b>F23</b>	Identify and put in place the resources to develop and promote SuDS, including: Promote and encourage community involvement in the retrofit of SuDS in existing developments, maintaining community rain gardens, discourage hard paving in gardens and retrofit raingardens / water butt installations	In the next 5 years	Planning & Strategic Infrastructure	Resources and programme in place	SuDS is being promoted on an ongoing basis by the Water Services Forward Planning Section including site workshops as well as training for the other Departments in Fingal. Plans to develop a Household SuDS guide and associated promotional campaign in 2023 - 2024.	Ongoing
<b>F24</b>	Create a case study of SuDS at Local Area Plan level	In the next 5 years	Planning & Strategic Infrastructure	Case study complete	Ongoing. Cappaghfinn housing estate has been used as an early case study site whilst proposals are well advanced for the development of Barnhill LAP as an exemplar LAP showcasing SuDS and Green / Blue infrastructure. The LAP will include a variety of measures including planter gardens, downpipe planter gardens, swales, wetlands etc. Also proposed are metrics for measuring effectiveness of implemented SUDS systems. This development has not yet started but funding for part of the Case study has been secured.	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
F25	Carry out a Climate Change Risk Assessment of Fingal's Cultural Heritage to identify and survey the architectural and archaeological heritage sites and designed landscapes.	In the next 5 years	Planning & Strategic Infrastructure	Risk Assessment completed	Action Complete. The results of the Fingal Cultural Heritage Climate Risk Assessment continue to inform priority actions and projects including the Fingal X Heritage citizen science monitoring project. Both the Fingal Climate Risk Assessment and the Fingal X Heritage project feature as case studies in 'Strengthening Cultural Heritage Resilience for Climate Change: Where the Green Deal meets cultural heritage' by the Open Method of Coordination (OMC) group of experts of EU Member States.	Complete
F26	Develop maintenance and condition survey programmes for Council owned historic buildings and ancient monuments that are informed by climate change impacts.	In the next 5 years	Planning & Strategic Infrastructure	Programmes completed	Ongoing. Fingal's Sites & Monuments at Risk group continue to develop a programme of vegetation management, survey, specification and works for priority sites. Currently conservation works are being undertaken on three FCC owned and one community owned heritage sites and a further three are being assessed to improve climate resilience through the Community Monuments Fund 2022.	Ongoing

### Nature Based Solutions Action Updates:

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
N1	Engage with sectoral adaptation plan on biodiversity to identify key habitats and species at risk from climate change impacts	In the next 5 years	Planning & Strategic Infrastructure	Workshop carried out, risks and responses identified	Action for identification of key habitats and species at risk from climate change impacts will be incorporated into the Biodiversity Plan.	Ongoing
N2	Engage with regional working group on nature-based solutions once set up	In the next 5 years	Planning & Strategic Infrastructure	Working group established	Regional engagement ongoing including on the Santry River Restoration Project. The vision for this project is that the landscape of the Santry River would become the backbone of a new green infrastructure project to facilitate nature, pedestrians, and cyclists and form a route from the biosphere of Dublin Bay at St Anne's Park to Dublin's wider hinterlands at Sillogue.	Ongoing
N3	Develop Green Infrastructure Strategy that incorporates climate change mitigation and adaptation to increase climate resilience	In the next 5 years	Planning & Strategic Infrastructure	Strategy completed	Green Infrastructure Strategy incorporating climate change mitigation and adaptation objectives has been included in upcoming County Development Plan.	Complete
N4	Map access to green space in County to identify areas of need and integrate green infrastructure in access considerations	In the next 5 years	Planning & Strategic Infrastructure	Map showing green space and projects	Open Space maps are on a dedicated GIS layer and this is being updated regularly with facilities added to the relevant database. Continuing to assess the adequacy of provision through the development management process.	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
N5	Engage with the agri-food sector to gain an understanding of how Fingal might better support more sustainable farming practices	In the next 5 years	Planning & Strategic Infrastructure	Sector engaged	No progress made to date, due to resource constraints & prioritisation of actions included here under NBS theme.	Not started
N6	Develop climate change initiatives in partnership with local farmers and other stakeholders	In the next 5 years	Planning & Strategic Infrastructure	Initiatives developed	No progress made to date, due to resource constraints & prioritisation of actions included here under NBS theme.	Not started
N7	Review and implement the Tree Strategy to protect existing trees, increase tree cover, establish guidelines on tree maintenance and investigate feasibility of urban orchards	In the next 5 years	Planning & Strategic Infrastructure / Operations	Tree Strategy implemented, online map of trees and plants across the County	New Forest of Fingal Tree Strategy has been approved. One of the key recommendations of the strategy is the employment of a Fingal Tree Officer and this person is now in post. Dedicated resources for tree management are being identified and provided.	Ongoing
N8	Identify sites for woodland planting that promotes an appropriate native species mix	In the next 5 years	Planning & Strategic Infrastructure	# of sites and acreage of potential woodland identified	Ongoing. Woodland Management Programmes and woodland creation as part of a targeted strategic annual tree planting programme have been developed and included as part of the revised Fingal Tree Strategy. Targeted woodland creation involves identifying and mapping priority locations within FCC's landbank suitable for woodland creation and expansion. These may be delivered in part through Development Management Process and Open Space levies. In addition, various small	Ongoing



No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
					woodland development sites have been identified at local level.	
<b>N9</b>	Map and protect strategic agricultural land for national food security purposes	In the next 5 years	Planning & Strategic Infrastructure / Teagasc	Resource mapped	No progress made.	Not started
<b>N10</b>	Incorporate SuDS into Constructed Tree Pits provided by the Council and in requirements for Constructed Tree Pits conditioned by the Council in Planning Permissions	In the next 5 years	Planning & Strategic Infrastructure	SuDS incorporated	Ongoing, through development management and forward planning. SuDS are being incorporated into Constructed Tree Pits provided by the Council in paved areas (example outside Star Pub Swords) and conditioned in Planning Permissions.	Ongoing
<b>N11</b>	Develop a map of habitats and species at risk of climate change	In the next 5 years	Planning & Strategic Infrastructure	Map completed	Action for the identification of key habitats and species at risk from climate change impacts will be incorporated into the new Biodiversity Plan. It is proposed to tender for this study in Q1 2023. Previous tender through EPA did not attract any quotations or proposals.	Ongoing
<b>N12</b>	Develop a monitoring programme of the habitats and species considered at risk of climate change	In the next 5 years	Planning & Strategic Infrastructure	# of monitoring programmes set up for habitats and species	Monitoring program will commence once the habitats and species at risk of climate change have been identified as per N11	Ongoing
<b>N13</b>	Prepare a climate proof biodiversity plan	In the next 5 years	Planning & Strategic Infrastructure	Complete review for climate relevant actions and amend accordingly	Draft Biodiversity Plan to be approved by Councillors in Q4 2022. Actions have been included in the Draft Plan to cater for climate mitigation and adaptation. The provision of staff and financial resources will determine to what extent the Biodiversity Plan is actually climate proof.	Ongoing

<b>N14</b>	Support and promote National Biodiversity Data Centre All-Ireland Pollinator Plan Actions for Councils	In the next 5 years	Planning & Strategic Infrastructure / Operations	Actions implemented	FCC is a formal council partner of Pollinator plan since March 2019. Pollinator Plan supported by numerous initiatives, including: Bee Positive Garden at Bloom 2019, Bulb planting initiatives, wildflower meadows in Regional Parks & Larger open spaces. Reduction of herbicides in public parks. See action N15 for long grass open spaces.	Ongoing
<b>No.</b>	<b>Action</b>	<b>Time-Frame</b>	<b>Lead</b>	<b>Indicators</b>	<b>Progress Report 2022</b>	<b>Status</b>
<b>N15</b>	Increase pollinator areas in public parks and open spaces	In the next 5 years	Operations	Increased pollinator area	Ongoing throughout the County with additional areas each year. It is not always possible but the preference is long grass pollinator areas.	Ongoing
<b>N16</b>	Support the use of allotments as a way communities can grow their own food, and lower food miles and food waste	In the next 5 years	Operations	Increased awareness	Ongoing, 800 fully operational allotments provided across 4 sites. The Council has undertaken post Covid site inspections to identify unworked plots and are following up with plot holders to bring these back into operation. The Council has paid to clear previously unworked plots which are being reallocated.	Ongoing
<b>N17</b>	Prepare a heathland management plan for Howth with ecological input	In the next 5 years	Planning & Strategic Infrastructure	Plan produced	Supporting studies complete but preparation of the Heathland management plan to be postponed to 2023 to allow for the impact assessment of grazing with goats on the heathland vegetation.	Ongoing
<b>N18</b>	Prepare a fire management plan for heathland on Howth that includes environmental considerations	In the next 5 years	Planning & Strategic Infrastructure	Plan produced	Wildfire Management Strategy prepared. Strategic wildfire breaks created all over Howth, Goat grazing ongoing to graze wildfire breaks. More goats are needed to cover all wildfire breaks. Operational wildfire plan almost completed by Dublin Fire Brigade. The use of scrub and forestry belts as wildfire breaks to be tested on Howth by planting the first of these belts in Q1 2023.	Ongoing
<b>N19</b>	Create multi-functional master plans for Rogerstown and Baldoyle Estuaries and their surroundings	In the next 5 years	Planning & Strategic Infrastructure	Master plans produced	Racecourse Park takes up most of the buffer zone of the Baldoyle Estuary. ABP has approved park development plan for the Racecourse Park and the Council wishes to commence development of the park in Q2 2023. Rogerstown Estuary Masterplan is at the early stages and once the coastal protection study is complete it will progress. The masterplan for Rogerstown Park which forms part of Rogerstown Estuary is at an advanced stage and it is intended that it will	Ongoing

					be submitted for formal planning approval during 2023.	
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### Resource Management Action Updates:

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
R1	Implement green procurement where feasible, starting with office consumables	In the next 5 years	Corporate	Green procurement implemented	<p>Incorporation of green principles in major procurement processes and evaluation criteria is ongoing.</p> <p>The Council includes on all tender documentation issued to suppliers the Councils commitment to sustainable procurement, green policies, climate action and energy management.</p> <p>Energy efficiency incorporated as part of the ISO 50001 Certification.</p> <p>Stores buying off OGP green office consumables contract list.</p> <p>CARO in conjunction with a range of partners have devised a comprehensive training programme on green public procurement for the local authority sector to operationalise the recently published EPA 'Green Public Procurement Guidance for the Public Sector'. In total over 600 staff have completed green public procurement training across the sector with rollout of three tailored programmes to continue into 2023 under the management of the Local Authority Services National Training Group (LASNTG).</p>	Ongoing
R2	Implement green procurement at Council supported events where feasible, including reduction of single use plastics	In the next 5 years	EETD	Green procurement implemented at events	<p>Currently all RFT's &amp; RFQ's detail FCC's policy for single use plastics at events and request tenderers to provide documentation of their sustainability policies. Vendors are asked to not use single use plastics, to use bio-degradable serving products, and the use of plastic straws is not permitted. As the Events Industry has returned following Covid it has been a gradual process to enforce this policy. A primary reason is the availability of suitable stock.</p> <p>The Events Unit continues to robustly implement the Green Guide to Events, which includes a document 'How to Make Your Event a Green One' with advice on environmental good practice for Festivals &amp; Events in Fingal.</p>	Ongoing

					<a href="https://www.fingal.ie/sites/default/files/2021-05/green-festival-fingal_ver3.pdf">https://www.fingal.ie/sites/default/files/2021-05/green-festival-fingal_ver3.pdf</a>	
No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
R3	Implement Environmental Management System for Council buildings including reduction in waste and water usage, and increased recycling	In the next 5 years	Facilities Management / Environment	EMS implemented	Underway, Managed Print system and digital FinDocs filing, Shredding consoles have been installed in both civic offices.	Ongoing
R4	Remove all single use items from Council canteens	In the next 5 years	Facilities Management	100% removal	Complete, and kept under review.	Ongoing
R5	Apply for Local Authority Waste Prevention Network grants	In the next 5 years	Water Services and Environment	# of grants for waste-related projects	Local Authority Waste Prevention Network grants have not been announced by the Department of Environment Climate & Communications so far this year.	Ongoing
R6	Promote Conscious Cup Campaign	In the next 5 years	Climate Action / Communications	# of activities, # of people reached	The Conscious Cup Campaign has been promoted by our Environmental and Climate awareness officers routinely on social media and when engaging with community groups. Representatives from Conscious Cup Campaign are facilitated with opportunities for engagement with the public and business leaders at events and, were also invited to host a webinar as part of Dublin Climate Action Week in September 2021 - a recording can be viewed at <a href="https://dublinclimatechange.codema.ie/climate-action-week/event-resources/">https://dublinclimatechange.codema.ie/climate-action-week/event-resources/</a> All Fingal staff have been issued with keep cups and all new staff members receive a reusable cup when joining Fingal County Council. A Reusable Cup Campaign was organised in Skerries in April 2022 in collaboration with The Conscious Cup Campaign, Skerries Tidy	Ongoing

No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
					Towns and local 14 local businesses in the area. Reusable cups were promoted in the local cafés and businesses and promotional material supplied by Fingal County Council and The Conscious Cup Campaign. The Council supported a competition and 14 local businesses also came together to make a #wechoosereuse video encouraging reusables.	
R7	Promote 'Reuse Month' annually	In the next 5 years	Climate Action / Communications	# of Council events	Ongoing promotion & support of campaigns run by the Regional Waste Office and rediscovery centre each October, and also promotion of MyWaste.ie Re Use Challenge. A short ReUse film was recorded for DCAW21 featuring Paint, Bicycle, Instrument Reuse & Repair Initiatives in Fingal. This film can be viewed at: <a href="https://dublinclimatechange.codema.ie/climate-action-week/event-resources/">https://dublinclimatechange.codema.ie/climate-action-week/event-resources/</a> The Fingal Musical Instruments Project is now being taken up by LA's across the country and Fingal host quarterly meetings to provide support to the LA staff.	Ongoing
R8	Promote recycling centres and expand the range of materials accepted where possible	In the next 5 years	Operations / Environment	Tonnage of materials accepted	Promotion ongoing. Range of materials expanded in Estuary & Coolmine recycling centres to include Instruments, and in Estuary recycling centre to include Bicycles and household items for charity incl furniture & toys.	Ongoing
R9	Promote and support circular economy initiatives	In the next 5 years	EETD	# of initiatives undertaken	Ongoing. Under the Sustainable Fingal Initiative the following actions are in progress: (1) Memorandum of Understanding to be executed in Q4 2022 with DCU and DAA to promote research in aviation sustainability (2) A plot of Council con-acre land has been selected for a Sustainable Agriculture Pilot and will shortly be advertised. Results to be monitored and evaluated on an ongoing basis over the term of the pilot (3) Promotion campaign to commence in October 2022 to encourage business to avail of the SEAI Energy Audit to assist with utility bills	Ongoing
R10	Trial recycling bins in regional parks	In the next 5 years	Operations	# of Bins	Segregated Waste bins were installed in a selection of the busier Regional Parks Picnic Areas during 2021. These bins were installed in Ardgillan Demesne, Newbridge Demesne, Malahide Demesne, St Catherines Park,	Ongoing



No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
					Millenium Park and an Open Space in Ongar adjacent to a playground and a MUGGA. The bins in Ardgillan, Newbridge, St Catherines & Malahide have been used relatively successfully during 2022. The bins in Millennium Park and Ongar were burnt out within the first few days and have not been replaced. The main issue in the sites relate to contamination within the separate waste streams. A customer usage campaign on social media is planned for Spring 2023 to remind people how to segregate the waste streams into the correct bins.	
<b>R11</b>	Implement a programme for the installation of big belly bins across the County to reduce collection frequencies and emissions	In the next 5 years	Operations	# of Bins	110 big belly solar compactor bins have been installed in towns and villages and coastal areas across the county in 2022, and a further 90 will be installed within the next few months. These have reduced the frequencies of collections.	Ongoing
<b>R12</b>	Support and promote the inclusion of climate change initiatives in tidy town, green schools and cleaner communities	In the next 5 years	Climate Action	# of initiatives supported by the Council each year	Ongoing. CA training provided to tidy towns and community groups. Ecologists have been employed to engage with tidy towns and community groups to produce local ecological development plans which the groups can implement with council support. Community groups were engaged with tree planting initiatives in Nov / Dec 2021. In early 2022, six 5-week Sustainable gardening and biodiversity courses were run for community groups in Fingal; and the Composting for Schools program was rolled out in 40 Fingal schools. Tidy Towns groups have been sponsored to run sustainable living and ReUse/ Rediscovery Centre workshops in the community.	Ongoing
<b>R13</b>	Support marine litter clean-up initiatives	In the next 5 years	Environment / Operations	# of initiatives supported by the Council each year	Ongoing through support of An Taisce Clean Coasts, the Dublin Community Clean up week which was in partnership for the Dublin LA's, An Taisce and the Canals groups, and support to schools through the An Taisce Green Schools Project and the Picker Pals Project. Seven Fingal Community Centres are acting as community support hubs - providing litter pickers and doggie dispensers to individuals and groups. Doggie dispensers are also given out by the litter wardens and dog wardens to the public. The Anti Litter Anti Graffiti (ALAG)	Ongoing

					Fund has been used for community litter projects and litter pickers and for audio devices for areas of outstanding beauty. 8 Beach Workshops were held on 4 beaches during the bathing season to educate attendees about marine ecosystems and litter.	
<b>R14</b>	Explore collaboration with Refill.ie to reduce single use drinking water bottles	In the next 5 years	Water Services and Environment	Feasibility assessed	Council contactless drinking water fountains are on the Refill.ie app. <a href="https://refill.ie/tap-map/">https://refill.ie/tap-map/</a> 27 Community Centres in the Fingal Keen to be Green initiative are eliminating single use plastics and registering on the Refill Tap Map.	Complete
<b>R15</b>	Maintain landfill gas collection and reuse system at Dunsink and Balleally Landfill	In the next 5 years	Water Services and Environment	Practically Zero GHG emissions by 2030	This is being maintained.	Ongoing
<b>R16</b>	Look at feasibility of planting trees on Dunsink Landfill	In the next 5 years	Water Services and Environment	% increase in tree coverage in line with future Master Plan	The Feasibility Assessment with the Parks Department for tree planting at Dunsink Landfill was completed and locations for tree planting have been selected. It is envisaged that planting of circa 14000 trees will be complete in Q1 2023.	Complete
<b>No.</b>	<b>Action</b>	<b>Time-Frame</b>	<b>Lead</b>	<b>Indicators</b>	<b>Progress Report 2022</b>	<b>Status</b>
<b>R17</b>	Provide a water butt retrofit programme for council owned housing on a cost benefit basis, starting with voids and tenant changeovers	In the next 5 years	Housing	# of water butts installed	Pilot project of Passive housing (5 dwellings) at Monastery Court Lusk expected on site in Q4 2022 includes provision for water butts and will inform future use on social housing projects.	Ongoing
<b>R18</b>	Assess the feasibility of including rainwater harvesting on all new Fingal public, operational and social buildings and provide where viable and appropriate	In the next 5 years	All Departments / Architects	# assessed and provided	Installations proposed at Skerries Mill Red Barn and upgrade works at Malahide Visitor Centre expected on site Q3 2023. Assessments ongoing on other projects at preliminary stage and requirement for assessment incorporated in design team briefs when commissioning newbuild projects.	Ongoing

<b>R19</b>	Incorporate low flush toilets into Council buildings, depots and housing, in line with refurbishment programmes	In the next 5 years	Facilities Management	# of low flush toilets incorporated in Council buildings, depots and housing	Low flush toilets are provided in main buildings & social housing already. Depots & Libraries will be assessed in line with refurbishment programmes.	Ongoing
<b>No.</b>	<b>Action</b>	<b>Time-Frame</b>	<b>Lead</b>	<b>Indicators</b>	<b>Progress Report 2022</b>	<b>Status</b>
<b>R20</b>	Develop and implement an ongoing public Climate Change Awareness Programme	In the next 5 years	Climate Action / Comms / CARO	Programme implemented	<p>Ongoing. Fingal County Council partnered with the other 3 Dublin local authorities and CARO &amp; Codema to deliver Dublin Climate Action Week in September 2021 and September 2022. A range of on-line and in person events relating to the themes of the Climate Change Action Plans were delivered each year. Fingal hosted site visit and webinar events. The webinars and other resources can be viewed at <a href="https://dublinclimatechange.codema.ie/climate-action-week/event-resources/">https://dublinclimatechange.codema.ie/climate-action-week/event-resources/</a></p> <p>Several Climate and Environmental awareness training course have been provided to community groups, tidy towns and schools.</p> <p>Our Climate and Environmental Awareness Officers have presented to schools and communities across the county and ensure a sustained social media campaign in relation to sustainable living, environmental and climate awareness. Council supported events are becoming greener. Public consultations in relation to projects and plans are ongoing. Our Communications team highlight the climate action message in the promotion of all plans and projects. Fingal News has a Climate Action tip in each issue. Fingal, the DLA and CARO are also partners in Phase 1 of a new the GAA Green Clubs programme involving 45 clubs nationwide including a GAA club in Fingal. <a href="https://www.gaa.ie/my-gaa/community-and-health/green-clubs-sustainability/">https://www.gaa.ie/my-gaa/community-and-health/green-clubs-sustainability/</a></p>	Ongoing
<b>R21</b>	Implement a Climate Awareness Programme for staff	In the next 5 years	HR / Comms / Climate Action	Programme implemented	<p>Ongoing – An extensive Climate Action Training Programme has been developed by CARO &amp; Climate Ireland and roll out across six pillars is now well advanced. All staff are being invited to undertake Climate Action Awareness training. Take up has been strong and more training to follow. In addition to this structured training, Climate Awareness &amp; Environmental Sustainability</p>	Ongoing

					messaging routinely on staff messages. Codema have held Lunch n Learn Home Energy information sessions. Home energy savings kit available for staff use.	
No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
R22	Develop and implement a Climate Change Awareness Grant Programme for schools and communities	In the next 5 years	Climate Action	Programme implemented	A number of grant programmes increasingly have a Climate Action, Biodiversity and Sustainable awareness focus, including Community Environment Fund and Anti-Litter & Anti-Graffiti Fund which are administered by FCC Environmental Dept. Sustainable sports competitions were held in 2019 & 2020. Grant funding and bridging finance has been made available to Sustainable Energy Communities from 2021. Pilot climate education course rolled out to three transition year groups, in three secondary schools in Fingal from September 2022. It is also anticipated that the new Government CAP 2021 will have a significant Climate Action Fund which communities can avail of from Q1 2023.	Ongoing
R23	As part of an emerging 'Green City' concept to produce A Guide to Sustainable Business in Swords	In the next 5 years	Economic & Tourism	Guide produced	This action is complete. The digital brochure & sustainable business webpages with video case studies launched in February 2021. Information is provided for business on how to reduce energy, water and waste and provides information on available funding streams. Podcast produced to promote the initiative with targeted campaign on LinkedIn. Sustainability Competition stimulated business engagement with a prize of a Sustainability Assessment and Action Plan - this was awarded to Welgro in Rush.	Complete
R24	Expand tenant induction programme to include tenant energy, water, waste and environmental awareness	In the next 5 years	Housing / Architects / Climate Action	# of tenants reached	Ongoing. The Programme has been expanded to include information and advice regarding environmental awareness, waste management and energy conservation; and this is under continual improvement. Post Covid 19 pandemic, in person tenant induction training, will resume in October 2022.	Ongoing
R25	Pilot Climate Action workshops with Tidy Town committees to promote	In the next 5 years	Climate Action	# of workshops	A number of climate action / environmental sustainability workshops have been provided to tidy towns and other groups. These include Sustainable gardening and wildflower masterclasses, and composting workshops. Tidy Towns groups have been funded for their own biodiversity projects. Tidy Towns have	Ongoing

	awareness of climate action at a local level.				also been funded to run workshops in the community for ReUse Month October. A supplier has been secured to deliver four climate action themed workshops to communities in Q4 reaching an audience with the help of the Tidy Towns committees.	
No.	Action	Time-Frame	Lead	Indicators	Progress Report 2022	Status
R26	Establish a network of public drinking water fountains to help reduce plastic waste	In the next 5 years	Operations	# of points installed	Drinking fountains installed in the Regional Parks are being well used, and some areas required additional drainage to accommodate the water overflow. A procurement process is planned for 2023 for the supply and installation of water fountains at additional suitable locations where easily accessible water supply and an active recreation demand exists.	Ongoing
R27	Examine the feasibility of retrofitting rainwater harvesting measures in existing council buildings, particularly for vehicle washing, toilet flushing and landscaping	In the next 5 years	Facilities Management / Architects	Feasibility study complete	Underway. Retrofitting RWH has not been viable on existing buildings on a cost benefit assessment. RWH will be considered for all new buildings and included in design team briefs.	Ongoing

## Conclusion:

This third annual progress report has outlined the progress Fingal County Council has made to date on the implementation of its Climate Change Action Plan 2019 - 2024 and demonstrates the commitment the Council has shown in providing local level leadership on climate action.

The Council continues to mainstream climate action across all functions and services, led by the steering group and senior teams. County staff at all levels have undertaken Climate Action training over the past two years and this is helping build capacity across teams and departments to deliver on Climate Action.

Several notable achievements and initiatives have been outlined across the thematic areas in section four of this report. Fingal County Council continues to meet its energy efficiency targets for Council operations, and with the assistance of Codema, is working towards achieving more onerous 2030 targets for energy efficiencies and emissions reductions. The Council has strengthened its Energy Team in 2022 with a dedicated Energy Manager in place.

The Council has made significant progress on a variety of Active Travel measures and has a strong team in place. Active Travel infrastructure projects are progressing across the county and several successful initiatives promoting behavioural changes have been undertaken in 2022.

The Draft Fingal Development Plan 2023-2029 has strengthened policies relating to Climate Action, Connectivity & Movement and Green Infrastructure. A number of key supporting Strategies and Plans have been developed including the Active Travel Strategy, the Tree Strategy and the draft Biodiversity Plan, as the Council continues to plan for future sustainable compact growth.

The Council partnered with the DLA, CARO and Codema to deliver the second Dublin Climate Action Week in September 2022 and has continued to engage citizens and other stakeholders on a range of issues.

Under the Climate Action and Low Carbon Development (Amendment) Act 2021, each local authority in Ireland, will be required to make a new Climate Action Plan in 2023, addressing both mitigation and adaptation baselines and measures. It is anticipated that the Dublin Local Authorities Climate Change Action Plans 2019-2024 will be amended / revised, to satisfy these requirements. Guidance has been prepared by the Local Government Management Agency and this guidance and a Circular from the Minister for the Environment, Climate and Communications is due to issue to the sector.

The continued implementation of the DLA CCAP's, in collaboration with the CARO, Codema and other stakeholders, supported by strengthening Government policy and plans, can provide a pathway to ensure a climate resilient region by 2030, and assist in laying the foundations for a carbon neutral society by 2050.



## APPENDIX I: Action Status definitions

### **Not started:**

Action is set to start at a later stage but within the timeframe as set out in the Climate Change Adaptation Strategy/Action Plan.

### **Ongoing:**

Action is currently being implemented in that there is a clear implementation plan in place with a member of staff assigned responsibility for its completion. Ongoing will also encapsulate actions that require continual maintenance, such as, gulley maintenance, road maintenance etc. Actions that by their nature, can't be categorised as 'completed' due to continual maintenance requirements.

### **Postponed:**

Action whose start time has been postponed compared to the timeframe as set out in the Climate Change Adaptation Strategy/Action Plan.

### **Completed:**

Action has been fully implemented and no further work on this action is required.

### **New:**

Action is new and has not been previously stated in the current Local Authority Climate Change Adaptation Strategy/Action Plan. It is now included as new action based on either;

- An action in the latest publication of the All of Government Climate Action Plan that highlights local authorities as a stakeholder
- Joining in on a regional climate action project in collaboration with other local authorities (which may be subject to screening and approval by members of the local authority)

## Appendix II: References:

1. <https://www.oireachtas.ie/en/bills/bill/2021/39/>
2. [gov.ie - Sectoral Emissions Ceilings \(www.gov.ie\)](http://www.gov.ie)
3. [Climate Change Advisory Council - ANNUAL REVIEW 2022 \(climatecouncil.ie\)](http://climatecouncil.ie)
4. [EPA-Ireland's-GHG-Projections-Report-2021-2040v4.pdf](#)
5. [Green Clubs Programme \(gaa.ie\)](http://gaa.ie)
6. [www.lintenafarraige.com](http://www.lintenafarraige.com)

## Appendix III: List of Acronyms:

BER – Building Energy Rating

CARO – Climate Action Regional Office

CCAC – Climate Change Advisory Committee

CCAP – Climate Change Action Plan

CCMA – County & City Management Association

CSO – Central Statistics Office

CO2 – Carbon Dioxide

DAFM – Department of Agriculture, Food & Marine

DECC – Department of the Environment, Climate & Communications

DHPLG – Department of Housing, Planning & Local Government

DLAs – Dublin Local Authorities

DTTAS - Department of Transport, Tourism & Sport

EMWR – Eastern & Midlands Waste Region

EnPi – Energy Performance Indicator

EPA – Environmental Protection Agency

EPC – Energy Performance Contract

ESRI – Economic & Social Research Institute

EV – Electric Vehicle

FCC – Fingal County Council

GHG – Greenhouse Gases

ISO – International Standards Organisation

LAP – Local Area Plan

LEADER - Liaisons entre actions de developement de Léconomie Rurale

LED – Light Emitting Diode

LGMA – Local Government Management Agency

NAF – National Adaptation Framework

NBS – Nature Based Solutions

NZEB – Nearly Zero Energy Building

NTA – National Transport Authority

OPW – Office of Public Works

PV – Photovoltaics

SEAI – Sustainable Energy Authority of Ireland

SEC – Sustainable Energy Community

SPC – Strategic Policy Committee

SuDS – Sustainable Urban Drainage Systems