Climate Action
Houses with solar panels in Honeypark ack Imageworks Photography on behalf of Cosgrave Group
3.1 Introduction
Climate change is the greatest global challenge of our time. It is experienced as increasing global temperatures, extreme weather events, rising sea levels, impact on air quality and air pollution, flooding and impacts on biodiversity. It is essential that greenhouse gas (GHG) emissions are cut to meet with the climate commitments at national and EU level. Making this happen depends on the co-operation of a wide range of stakeholders and significant behavioural changes.

Whilst the challenge of climate change and the realisation that our planet has a finite resource capacity has come to prominence in the last 20 to 30 years, land use planning has since its inception played a key role in balancing development with the protection of the environment. The role of land use planning is principally in influencing the reduction in GHG by providing for growth to be compact, mixed use, well connected and sustainable.

The core strategy sets out how development in DLR will be concentrated in the built up footprint of the County in order to achieve compact growth. This will be in the form of higher residential densities. Growth will be concentrated in urban infill and brownfield sites and along public transport corridors. This increases efficiencies as travel distances between home, work, education and services are reduced and hence active modal share, which is zero carbon can be increased.

DLR is committed to playing its role in transitioning to a climate resilient low carbon County to 2030, 2050 and beyond. In May 2019, the Council adopted the Dún Laoghaire Rathdown Climate Change Action Plan 2019 – 2024 (DLR CCAP). The Action Plan is the climate adaptation and mitigation strategy for the County. Included in the actions set out in the DLR CCAP is the requirement to prepare a climate change Chapter in the County Development Plan.

The creation of a climate resilient County is an overarching strategic outcome of this Plan, and as such, whilst this is a standalone Chapter, the theme permeates the entire plan with a selection of policy objectives in other Sections all contributing to aid in the transition of the County to a climate resilient low carbon society.

The Council will endeavor to ensure that low income families are protected from fuel poverty as Climate Change actions are rolled out across Dún Laoghaire-Rathdown.

After addressing relevant international, national and regional policy relating to climate change action, the Chapter will address four key issues, namely:

- Energy Efficiency in Buildings;
- Renewable Energy;
- Decarbonising Motorised Transport;
- Urban Greening.

These issues have been identified as being of particular significance in helping to achieve sustainable planning outcomes which will ultimately help to deliver a low carbon and a climate resilient County.
3.2 International, National and Regional Policy

In 2020, the European Commission presented proposals to enshrine in legislation the European Union’s political commitment to be climate neutral by 2050, titled The European Climate Law. These proposals will have implications for Ireland’s energy and emission targets and other national targets set out in the Government’s ‘Climate Action Plan 2019 To Tackle Climate Breakdown’, in any future National Mitigation Plan and in the National Energy and Climate Plan (NECP).

3.2.1 Policy Objective CA1: National Climate Action Policy
It is a Policy Objective to support the implementation of International and National objectives on climate change including the ‘Climate Action Plan 2019 to Tackle Climate Breakdown’, the ‘National Adaptation Framework’ 2018 and the ‘National Energy and Climate Plan 2021-2030’ and other relevant policy and legislation, that support the climate action policies included in the County Development Plan.

At a national level, progress has been made in the evolution of climate change policy in Ireland. The 2015 ‘Climate Action and Low Carbon Development Act’ provides the statutory basis for the approval of plans by the Government in relation to climate change for the purpose of pursuing the transition to a low carbon, climate resilient and environmentally sustainable economy. Climate action is an evolving policy area and new legislation is in preparation.


The Climate Action Plan is a statement of Government policies relevant to decarbonisation and adapting to a changing climate, with 183 specific actions assigned across all parts of the Government. The Plan identifies how Ireland will achieve its 2030 targets for carbon emissions and puts Ireland on a trajectory to achieve net zero carbon emissions by 2050 and also reiterates Ireland’s commitment to the UN Sustainable Development Goals.

The Climate Action Plan is also closely linked to the Government’s Project Ireland 2040 initiative in that it restates the importance of ensuring “compact, connected and sustainable development”. The National Planning Framework (NPF), which is a central element of Project Ireland 2040, emphasises the role of spatial planning policy in achieving climate change mitigation and adaptation in how it influences where we live and work and how we travel. The transition to a low carbon and a climate resilient society is outlined in NPF National Strategic Outcome (NSO) 8.

The National Energy and Climate Plan (NECP) sets out the energy and climate policies of the Government in accordance with EU legislation. Ireland is committed to achieving GHG reductions in excess of those set out in the NECP 2021-2030 and currently new policies, legislation and measures are being developed to reflect this.

3.2.2 Policy Objective CA2: Regional Climate Action
It is a Policy Objective to work closely with the Eastern Midland Regional Authority (EMRA) the Dublin Metropolitan Climate Action Regional Office (Dublin CARO), City of Dublin Energy Management Agency (Codema) and the Sustainable Energy Authority of Ireland (SEAI) to achieve the climate action policies and objectives set out in the Eastern and Midlands Region Spatial and Economic Strategy (consistent with RPO 3.1, 36, 7.4, 7.30, 7.31, 7.32, 7.33, 7.35, 7.38, 7.40, 7.42, 7.43, 7.7 of the RSES).

Climate action and the need to transition to a low carbon society is one of three key principles of the Regional Spatial and Economic Strategy (RSES) for the Eastern and Midlands Region. The RSES contains a number of detailed Regional Policy Objectives (RPOs) relating to climate action and outlines the role planning and the Development Plan can play in achieving these objectives.

The need to enhance climate resilience and to accelerate a transition to a low carbon society is emphasised in the RSES. The role of natural capital and ecosystem services in achieving this aim is recognised and this is reflected in numerous RPOs including those which focus on: compact growth; the integration of land use and transport; infrastructure development; energy; green infrastructure; flooding; and ecosystem services.

The Dublin Climate Action Regional Office (CARO) is one of four such offices set up with funding from DCCAE to drive climate action at a local and regional level. CAROs provide expertise in the area of climate action and assist in the development of policy and the collaborative approach to transitioning to a
low carbon and climate resilient future by aligning the work of the local authorities and the sectoral adaptation plans of the various Government departments.

The Dublin CARO and the City of Dublin Energy Management Agency (Codema) have worked with DLR and the other Dublin Authorities in preparing Climate Change Action Plans. It is Codema’s role to accelerate Dublin’s low-carbon transition through innovative, local-level energy and climate change research, planning, engagement and project delivery, in order to mitigate the effects of climate change and improve the lives of citizens.

Codema acts as DLR County Council’s energy and climate mitigation advisors and has prepared the ‘Dún Laoghaire-Rathdown Baseline Emissions Report’ (2016). Codema has also provided information which has informed a number of the specific policy objectives contained in this Chapter.

Codema has also been tasked with preparing the ‘Dublin Region Energy Master Plan’ which will provide an evidence base to support and inform policy making in the areas of heat, electricity and transport. The Masterplan will develop suggested pathways for Dublin to achieve its carbon emission reduction targets considering local spatial, social and economic factors.

This ongoing work will also help the Dublin Local Authorities to identify Strategic Energy Zones, which are areas suitable for larger energy generating projects and consider the role of community and micro energy production (consistent with RPO 7.35 of the RSES). It will also assist in the identification of district heating opportunity areas (as required under RPO 7.38 of the RSES) along with other areas of heat and transport policy.

### 3.2.3 Policy Objective CA3: Measuring Greenhouse Gas Impacts

It is a Policy Objective that spatial and infrastructure planning are consistent with climate mitigation and adaptation objectives. When it is available, the Council will be informed by the work led by the Eastern and Midland Regional Assembly to develop a methodology for quantifying the GHG impacts of spatial planning policies, (QGasSP, an ESPON EU research programme) and the forthcoming Development Plan Guidelines or other national Guidance as appropriate. The Council will quantify the GHG impacts for this County Development Plan when EMRA guidelines become available. (Consistent with NPO 54 of the NPF and RPO 3.6 of the RSES)

RPO 3.6 of the RSES requires County Development Plans to undergo assessment of their impact on carbon reduction targets. It should be noted however that while Actions 15 and 65 of the Government’s 2019 Climate Action Plan refers to a range of methodologies, guidance, toolkits and audit frameworks for measuring GHG impacts, at present there is no agreed methodology for measuring GHG impacts of spatial planning nor the integration of climate change issues into the Development Plan process.

In this regard, it should also be noted that Section 28 Guidelines are in preparation by the Department of Housing, Local Government and Heritage (DHLGH) which are intended to provide clarification around the area of Climate Action in the context of the Development Plan including a suitable methodology for measuring carbon emissions.

However, the ‘Dún Laoghaire-Rathdown Baseline Emissions Report’ prepared by Codema does provide an emission baseline of carbon and GHG emissions on a County basis and EMRA is currently leading on a research project on Greenhouse Gas Impact Assessment Method for Spatial Planning Policy titled ‘Quantitative Greenhouse Gas Impact Assessment Method for Spatial Planning Policy (QGasSP)’ as part of the EU ESPON (European Spatial Planning Observation Network) research programme.

In combination these evolving Guidelines and research should clarify the role of the County Development Plan in achieving the climate targets of 2030 and 2050 in due course.
3.3 Local Climate Change Action Policy

RPO 7.32 of the RSES requires that Local Authorities develop, adopt and implement local climate mitigation and adaptation strategies. Measures to deal with climate change can be defined as either mitigation measures or adaptation measures and some measures incorporate element of each.

According to a 2014 report from the Intergovernmental Panel on Climate Change (IPPC) climate change mitigation is defined as “a human intervention to reduce the sources or enhance the sinks of greenhouse gases” while climate change adaptation is defined as “the process of adjustment to actual or expected climate and its effects. In human systems, adaptation seeks to moderate or avoid harm or exploit beneficial opportunities. In some natural systems, human intervention may facilitate adjustment to expected climate and its effects”.

Figure 3.1: Climate Action: Mitigation and Adaptation
In accordance with this approach, the DLR CCAP, sets out the baseline climate adaptation and mitigation assessment risk and vulnerability assessment and ambitious target actions for the Council’s activities under five headings, namely: Energy and Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management. For each action area the DLR CCAP sets out actions and targets to be achieved along with the lead agency and/or Council Department.

### 3.3.1 Policy Objective CA4: Dún Laoghaire Rathdown County Council Climate Change Action Plan 2019-2024 (DLR CCAP)

It is a Policy Objective to implement the Dún-Laoghaire Rathdown County Council Climate Change Action Plan 2019 - 2024 (DLR CCAP) and to transition to a climate resilient low carbon County. (Consistent with SO8 of the NPF, RPO 7.32, 7.33 of the RSES)

Planning and the Development Plan already plays a role in each of the key areas identified in the DLR CCAP. Having regard to the headings set out in the DLR CCAP, this Draft Development Plan contains a range of policy objectives which aim to mitigate and adapt to climate change.

In addition to the specific polices contained in this Chapter, many other Chapters also address the DLR CCAP headings listed above:

- The issue of ‘Transport’ is dealt with in detail in Chapter 5 ‘Transport and Mobility’ which sets out the overall policy approach which is very much focused on achieving a modal shift to more sustainable modes of transport, while this Chapter includes policy objectives on low emission vehicles.
- The issues of ‘Flood Resilience’ and ‘Resource Management’ in relation to waste and water are covered in Chapter 10 ‘Environmental Infrastructure’.
- The issue of Nature Based Solutions (NBS) is addressed in Chapter 8; Green Infrastructure and Biodiversity which includes a new policy objective which relates directly to NBS.

Table 3.1 sets out in summary how Chapters 1 – 11 of this Plan contribute to climate change adaptation or mitigation measures. The remaining Chapters in the plan are supporting Chapters and hence are not included.
Table 3.1: How Chapters contribute to Climate Change Adaptation or Mitigation

<table>
<thead>
<tr>
<th>Chapter</th>
<th>How Chapters contribute to Climate Change Adaptation or Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Introduction, Vision and Context</td>
<td>Identifies the creation of a climate resilient County as an overarching strategic outcome of the Draft Plan</td>
</tr>
<tr>
<td>2. Core Strategy</td>
<td>Supports the compact urban development approach with development focused on transportation corridors and minimisation of travel. Supports the development of brownfield sites/windfall and regeneration</td>
</tr>
<tr>
<td>3. Climate Action</td>
<td>Supports the implementation of the DLR CCAP. Supports Government and sectoral plans. Supports the work of EMRA, Dublin CARO and Codema on climate action and takes on board research project to monitor progress regarding GHG emissions. Promotes high levels of energy conservation, energy efficiency and the use of renewable energy sources in existing buildings. Supports and promotes the use of structural materials that have low to zero embodied energy and CO2 emissions. Supports renewable energy. Supports district heating and the development of County wide policy. Supports the decarbonising of motorised transport including public EV charging network. Supports an urban greening approach.</td>
</tr>
<tr>
<td>4. Neighbourhood - People, Homes and Place</td>
<td>Supports the provision of residential development in tandem with public transport, sustainable neighbourhood infrastructure, quality open space, recreation and employment opportunities. Supports the 10 minute settlement approach and sustainable urban villages. Supports healthy placemaking. Places an emphasis on adaptability of social and community facilities and new homes.</td>
</tr>
<tr>
<td>5. Transport and Mobility</td>
<td>Supports the Avoid-Shift-Improve approach. Emphasis is on the pedestrian and cyclist and access to public transport and services. Supports car and bike sharing. Introduces new car parking standards. Integrates land use and transport policies. Encourages the replacement of sodium bulbs with low energy LEDs for public lighting.</td>
</tr>
<tr>
<td>6. Enterprise and Employment</td>
<td>Supports the transition to a low carbon economy. Supports employment concentrated on public transport corridors and the proposed intensification and redevelopment of existing strategic employment areas. Supports home and e-working. Supports new employment which is aligned with climate action and the circular economy. Supports a sustainable maritime economy.</td>
</tr>
<tr>
<td>7. Towns, Villages, and Retail Development</td>
<td>Places an emphasis on the multi-functional role of village/town centres to provide a wide range of services to reduce the need to travel. Increases emphasis on placemaking - enhanced public realm, including improved accessibility for sustainable transport modes. Supports casual trading, organic foods, producer only products, seasonal and craft markets.</td>
</tr>
<tr>
<td>Chapter</td>
<td>How Chapters contribute to Climate Change Adaptation or Mitigation</td>
</tr>
<tr>
<td>---------</td>
<td>---------------------------------------------------------------</td>
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</tbody>
</table>
| 8. Green Infrastructure and Biodiversity | Supports Green Infrastructure and ecosystems services approach  
Supports the actions of the DLR County Biodiversity Plan 2021-2026 (under preparation), the Dún Laoghaire-Rathdown Ecological Network Map and the County Wildlife Corridor Plan (under preparation)  
Supports the All Ireland Pollinator Plan 2020-2025  
Supports the increased use of nature-based solutions  
Supports the forthcoming National Marine Planning Framework and the preparation of Local Seascape Character Assessment  
Supports the Dublin Bay Biosphere and the Dublin Mountains Strategic Plan |
| 9. Open Space, Parks and Recreation | Supports locally grown foods – community gardens and allotments  
Supports greenways and blueways network  
Supports an updated more holistic trees, woodlands and forestry policy as an ‘urban forest’ and aligned to the role of trees in Climate Mitigation and Climate Adaptation  
Supports Nature Based Play |
| 10. Environmental Infrastructure | Supports the matching of enabling water and waste water infrastructure with provision of development  
Supports the circular economy with respect to waste  
Supports Sustainable Urban Drainage Systems (SuDS)  
Supports Strategic Flood Risk Assessment and Management  
Supports the Coastal Defence policy and the Coastal Monitoring Survey Programme |
| 11. Heritage | Emphasises protection and reuse of building stock where appropriate  
Supports appropriate energy efficient upgrades to protected structures which respect the built fabric |

*Image - Mews in Sallynoggin*
3.4 Achieving Sustainable Planning Outcomes

As outlined above, four significant issues were identified which are considered as of particular significance in helping to achieve sustainable planning outcomes which will ultimately help to deliver a low carbon and a climate resilient County namely:

- Energy Efficiency in Buildings;
- Renewable Energy;
- Decarbonising Motorised Transport;
- Urban Greening.

3.4.1 Energy Efficiency in Buildings

Energy and buildings are one of the key target areas of the DLR CCAP 2019 – 2024. A series of ambitious targets to be delivered by the DLR Energy team, SEAI and others are set out in the DLR CCAP. DLR’s social housing stock promotes high quality energy efficiency in new build and has a programme of energy upgrade supported by other stakeholders. The Development Plan can play a role in supporting and encouraging energy efficiency in the built environment.

According to the ‘Dún Laoghaire-Rathdown Baseline Emissions Report’ it was estimated that buildings equated to 63.7% of the total carbon emissions within DLR.

3.4.1.1 Policy Objective CA5: Energy Performance in Buildings

It is a Policy Objective to support high levels of energy conservation, energy efficiency and the use of renewable energy sources in existing and new buildings, including retro fitting of energy efficiency measures in the existing building stock.

The Planning Authority will support the actions of the DLR CCAP and overall energy conservation and energy efficiency in new and existing buildings. Design of both new and existing buildings should consider orientation, energy conservation and energy efficiency so as to promote the transition to net zero carbon. It is noted that under the current building regulations and in line with the Energy Performance of Building Directive (EPBD), all new buildings with in the County are required to achieve the nearly Zero energy Buildings (NZEB) standard (consistent with RPO 7.40 of the RSES).

With regard to Protected Structures and buildings in Architectural Conservation Areas (ACAs) Policy Objective HER11: Energy Conservation in Protected Structures should be referred to (see Section 11.4.1.5).

3.4.1.2 Policy Objective CA6: Retrofit and Reuse of Buildings

It is a Policy Objective to require the retrofitting and reuse of existing buildings rather than their demolition and reconstruction where possible recognising the embodied energy in existing buildings and thereby reducing the overall embodied energy in construction as set out in the Urban Design Manual (Department of Environment Heritage and Local Government, 2009). (Consistent with RPO 7.40 and 7.41 of the RSES).

With 30% of construction related emissions locked into the completed building as ‘embodied carbon’ priority should be given to repairing and re-using existing buildings in preference to demolition and new-build. This policy objective is again in line with the targets of the DLR CCAP. For new build and repair or retrofit, the Planning Authority will support the use of materials that are sustainably sourced and the reuse and recycling of existing materials wherever possible.

Where an existing building cannot be incorporated into a new layout and the development facilitates a significant increase in density, demolition may be considered to be acceptable to the Planning Authority (See also Section 12.3.10. Demolition and Replacement Dwellings).

3.4.1.3 Policy Objective CA7: Construction Materials

It is a Policy Objective to support the use of structural materials in the construction industry that have low to zero embodied energy and CO2 emissions. (Consistent with the RPO 7.41 of the RSES)

Action 118 of the National Climate Action Plan 2019 is to “work with industry stakeholders to increase the use of low carbon materials, taking into account international best practice”.

3.4.1.4 Policy Objective CA8: Sustainability in Adaptable Design

It is a Policy Objective to promote sustainable approaches to the improvement of standards for habitable accommodation, by allowing dwellings to be flexible, accessible and adaptable in their spatial layout and design.

It is important that the design of individual buildings facilitate a good quality of life for residents and secures long-term sustainability of the overall development. The design of new residential
Monna Smart Bench Dun Laoghaire

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developments should consider not just the immediate needs of the prospective occupants, but also their possible changing needs over the life of the building. (See also Policy Objective PHP19: Existing Housing Stock - Adaptation, Section 4.3.1.2)

The Planning Authority will also support developments that manage the urban heat island through design, layout, orientation, materials and the incorporation of green infrastructure.

3.4.1.5 Policy Objective CA9: Radon Gas
It is a Policy Objective, in partnership with other relevant agencies, to promote best practice in the implementation of radon prevention measures.

3.4.2 Renewable Energy
Renewable energies will play an increasing role in the future in the drive to reduce GHG emission and transition to a low carbon society. DLR offers a range of opportunities for renewable energy.

3.4.2.1 Policy Objective CA10: Renewable Energy
It is a Policy Objective to support County, Regional, National and International initiatives and pilot schemes to encourage the development and use of renewable energy sources, including the SEAI Sustainable Energy Community initiatives, as a means of transitioning to a low carbon climate resilient County in line with national renewable energy targets.

3.4.2.2 Policy Objective CA11: Onshore and Offshore Wind Energy and Wave Energy
It is a Policy Objective to support in conjunction with other relevant agencies, wind energy initiatives, both on-shore and offshore, and wave energy, when these are undertaken in an environmentally acceptable manner. (Consistent with NSO 8 and NPO 42 of the NPF and RPO 7.36 and 10.24 of the RSES)

DLR supports the increase in use of renewable energy resources, namely solar photovoltaic, geothermal, heat pumps, district heating, solar thermal, hydro, tidal power, offshore and small scale onshore wind. These sources offer alternatives to fossil fuels, which help reduce carbon emissions and reliance on imported fossil fuels. They can also support local economic development and employment.

The ‘Dún Laoghaire-Rathdown Baseline Emissions Report’ estimated that energy from renewables only contributed 1% to the total fuel mix in DLR. This renewable energy mainly came from biomass energy, at 0.7%.

DLR encourages and supports the SEAI Sustainable Energy Communities initiatives which involves the participation of local communities in developing a sustainable energy system for the benefit of the community to be energy efficient, using renewable energy where feasible and adopting smart energy solutions.
It is acknowledged that wind and wave energy as renewable energy sources have an important role to play in achieving national targets in relation to reductions in fossil fuel dependency and greenhouse gas emissions as well as contributing to the decarbonising of the County.

The ‘Wind Energy Development Guidelines for Planning Authorities’ (2006) sets out a detailed methodology to help identify optimum locations for the development of commercial wind generating facilities. The Planning Authority has also had regard to the ‘Interim Guidelines for Planning Authorities on Statutory Plans, Renewable Energy and Climate Change’ (2017) in the preparation of this Plan (see Appendix 11 for further details).

Appendix 11 of this Plan includes an analysis of wind speeds and the sensitive landscapes of the County at a broad level. It is concluded that there is no realistic or practical potential for economic on-shore wind farm development in the County without significant and overriding adverse visual and environmental impacts.

The role of DLR in the promotion of measures to reduce GHG emissions, in terms of offshore wind and wave relates to promoting enabling infrastructure such as grid facilities on the land side of any renewable energy proposals of the offshore wind resource.

The Council supports the ‘Offshore Renewable Energy Development Plan’ (OREDP) published in 2014 by the Department of Communications Energy and Natural Resources, in the progressive development of Ireland’s offshore renewable energy potential and will cooperate with state and semi-state agencies in relation to the implementation of projects in the Irish Sea.

### 3.4.2.3 Policy Objective CA12: Small-Scale Wind Energy Schemes

It is a Policy Objective to encourage small-scale wind energy developments and support small community-based proposals provided they do not negatively impact upon the environmental quality or amenity of the area, as a renewable energy resource which can contribute to the transition to a low carbon climate resilient County.

Central Government support to such small-scale renewable residential energy projects is implicit in the various planning exemptions provided for under the Planning and Development Regulations 2001, as amended.

DLR County Council will encourage domestic households and commercial premises in appropriate locations to install micro wind energy units.

### 3.4.2.4 Policy Objective CA13: Solar Energy Infrastructure

It is a Policy Objective to encourage and support the development of solar energy infrastructure, including photo voltaic (PV) and solar thermal and seasonal storage facilities infrastructure in appropriate locations, as a renewable energy resource which can contribute to the transition to a low carbon climate resilient County. It is also a policy objective to support Ireland’s renewable energy commitments by facilitating utility scale PV installations for the production of electricity provided they do not negatively impact upon the environmental quality, amenity or heritage of the area.

Solar PV converts the sun’s radiation into electricity to help move away from carbon based electricity generation and Solar thermal converts the sun’s radiation into heat, to use for residential and commercial space heating and hot water.

The Plan supports the growth in solar photovoltaics and solar thermal use in the County. Roof space that is free from shading, roof mounted plant and flat or in the case of a pitched roof has a general southerly orientation (within 90° of due south) would be suitable for solar. Planning exemptions are set out in the Planning and Development Regulations 2001, as amended for small scale solar thermal and PV.

Utility scale solar usually consist of ground mounted solar panels and supplies the electricity grid directly. Locations that may be suitable for these uses include lands zoned with the Land Use Zoning Objective, “B: to protect and improve rural amenity and provide for the development of agriculture” and “GB: to protect and enhance the open nature of lands between urban areas”.

### 3.4.2.5 Policy Objective CA14: District Heating

It is a Policy Objective to support the development of district heat networks and the utilisation of waste heat recovery in the County as a renewable or low energy resource which can contribute to the transition to a low carbon climate resilient County. The Planning Authority will support the development of a Council wide District Heat policy following on from the forthcoming National Policy Framework for District Heat. (Consistent with RPO 7.38 of the RSES)

A district heating scheme consists of an insulated pipe network, which allows heat generated from a single or several larger centralised source(s) (energy centres) to be delivered to multiple buildings to provide space heating and hot water.
District heating is independent of the heat source and has the inherent flexibility to utilise multiple, diverse, locally available, renewable and low-carbon heat sources. District heating can also allow waste heat (e.g. from electricity generation, industrial processes, hospitals etc.) which is often lost, to be captured and used to supply heat to homes and businesses, reducing the need to consume further fuel and significantly reducing carbon emissions and the cost of heat.

The Council will seek to support the advancement of district heating within the County.

The ‘National Climate Action Plan 2019’ refers to the following actions being taken to further the uptake of district heating in the Country:

- “Develop a national policy framework for district heating, which covers the key areas of regulation, planning, financing and research;
- Use the two district heating pilot schemes to develop experience and knowledge that can promote and inform further schemes nationwide to facilitate greater uptake of district heating through self-financed heat networks;
- Ensure the potential of district heating is considered in all new developments and in particular in SDZs;
- Identify a set of potential early mover projects beyond the first two pilot schemes”.

RPO 7.38 of the RSES requests that Local Authorities consider the issue of heat mapping to support development which can deliver energy efficiency and recovery of energy, carry out a feasibility assessment for district heat and identify local waste heat sources.

Codema has carried out a feasibility assessment for district heating to identify local waste heat sources in the County which indicates that several areas have potential. Following the development of a formal National Policy Framework for district heating, which will be informed by the lessons learned from the two ongoing national pilot schemes, further work will be required at a Council wide level to develop a comprehensive district heating policy.

### 3.4.3 Decarbonising Motorised Transport

Decarbonising motorised transport is one of the ways DLR as a County can move towards an overall sustainable transport strategy. Transport is another key area of the DLR CCAP. Actions which are set out in the CCAP include increasing the number of electric vehicles along with the promotion of active travel and behavioural change.

The ‘DLR Baseline Emissions Report’ reported that transports accounts for 33.2% of GHG emissions in DLR.

Whilst it is acknowledged that Low Emission Vehicles (LEVs) and Electric Vehicles (EVs) are not the modes of transportation with the lowest emission levels, the Planning Authority are supportive of the transition away from the dependence on fossil fuel propelled vehicles to LEVs and EVs. Policy with regard to the other transport modes is set out in Chapter 5.

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Figure 3.2: Passenger Transport Mode Hierarchy for Dublin

<table>
<thead>
<tr>
<th>Transport Mode</th>
<th>gCO₂ per Passenger-km</th>
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<tbody>
<tr>
<td>On Foot</td>
<td></td>
</tr>
<tr>
<td>Bike</td>
<td></td>
</tr>
<tr>
<td>E-bike</td>
<td></td>
</tr>
<tr>
<td>DART</td>
<td></td>
</tr>
<tr>
<td>Luas</td>
<td></td>
</tr>
<tr>
<td>Dublin Bus</td>
<td></td>
</tr>
<tr>
<td>Battery EV</td>
<td></td>
</tr>
<tr>
<td>Diesel Train</td>
<td></td>
</tr>
<tr>
<td>Plug-in Hybrid EV</td>
<td></td>
</tr>
<tr>
<td>CNG Car</td>
<td></td>
</tr>
<tr>
<td>Motorcycle</td>
<td></td>
</tr>
<tr>
<td>Diesel Car</td>
<td></td>
</tr>
<tr>
<td>LPG Car</td>
<td></td>
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<tr>
<td>Petrol Car</td>
<td></td>
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<tr>
<td>MPV</td>
<td></td>
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Source: Codema 2020
3.4.3.1 Policy Objective CA15: Low Emission Vehicles

It is a Policy Objective to support and facilitate the rollout of alternative low emission fuel infrastructure through the Development Management process, prioritising electric vehicle infrastructure.

The National Policy Framework on Alternative Fuels Infrastructure for Transport in Ireland 2017 to 2030 sets a target that by 2030 all new cars and vans sold in Ireland will be zero emissions (or zero emissions capable).

A Low Emissions Vehicles (LEV) Taskforce has been established to assess the range of measures and options available to Government to help accelerate the deployment of alternative technologies, focusing first on electric vehicles.

Developing and expanding the infrastructure for alternatively fuelled vehicles will be a vital step in encouraging consumers to make more environmentally friendly transport choices. Consideration should be given to the need for low emission fuel infrastructure in development proposals for new and or refurbished petrol filling stations. (See also Section 12.6.7 Petrol Stations).

3.4.3.2 Policy Objective CA16: Electric Vehicles

It is a Policy Objective to support, the Government’s Electric Transport Programme by progressively electifying our mobility systems by facilitating the rollout of Electric Powered Vehicle Recharging Parking Bays across the County and on public roads and other suitable location. The provision of e-bike chargers will be supported subject to the availability of Funding. (Consistent with NSO 4 of the NPF and RPO 7.42 of RSES)

The national Climate Action Plan has ambitious targets for the uptake of electric vehicles (EVs), with a target of having 935,600 EVs on the road by 2030, including 840,000 cars, 95,000 light commercial vehicles and 600 low-emission buses (i.e. not diesel only).

Electric vehicles (EVs) offer an increasingly realistic solution to the challenge of reducing the transport sector’s GHGs, increasing the use of renewable energy in transport and reducing reliance on imported fossil fuels.

Since the adoption of the 2016 County Development Plan, DLR has been trialling electric charging points on street lamps. It is Council policy
to expand the network of public EV charging points, through the use of the public lighting network, where feasible, and at other on-street or public parking locations subject to the availability of funding.

DLR in conjunction with other Local Authorities in the Dublin Region are developing a strategy to provide for public electric vehicle charging infrastructure at on-street locations, in support of the Government Strategy on electric vehicles and use of alternative fuels – National Policy Framework on Alternative Fuels Infrastructure for Transport for Ireland 2017 to 2030 (See also Section 12.4.11 Electrically Operated Vehicles).

3.4.4 Urban Greening

Urban greening is the provision of planting, including trees, in urban areas and can include small pocket parks in between buildings, living/green walls and green roofs. Urban greening creates mutually beneficial relationships between the population and the environment.

3.4.4.1 Policy Objective CA17: Urban Greening

It is a Policy Objective to promote urban greening - as an essential accompanying policy to compact growth - which supports the health and wellbeing of the living and working population, building resilience to climate change whilst ensuring healthy placemaking. Significant developments shall include urban greening as a fundamental element of the site and building design incorporating measures such as high quality biodiverse landscaping (including tree planting), nature based solutions to SUDS and providing attractive routes and facilities for the pedestrian and cyclist (Consistent with RPO 7.6, 7.22, 7.23, 9.10 of the RSES).

The ecosystem services from urban greening include the direct and indirect contributions to human well-being. A key action of the ‘EU Biodiversity Strategy for 2030’ recognises that:

“Green urban spaces, from parks and gardens to green roofs and urban farms, provide a wide range of benefits for people. They also provide opportunities for businesses and a refuge for nature. They reduce air, water and noise pollution, provide protection from flooding, droughts and heat waves, and maintain a connection between humans and nature”.

The EU strategy also emphasises that investing in nature protection and restoration will also be critical for Europe’s economic recovery from the current COVID-19 pandemic.

Increasing green infrastructure can help to off-set the GHGs from new development and act as carbon sinks. There is a need to balance compact growth with a greener public realm and the greening of buildings (such as living/green roofs and living/green walls). This will reduce the heat island effect in the built up parts of the County and provide some of the benefits of traditional parks and open spaces outside of parks. (See also policy objectives in Chapter 8).

The Council supports the expansion of urban meadows within the County, in accordance with the approach set out in the All Ireland Pollinator Plans.