Jennifer Sherry

From:

Bord

Sent:

Thursday 19 March 2020 09:52

To:

SIDS

Subject:

FW: Planning Application Reference No. 06S. JA0040 – Dublin Mountains Visitors

Centre and all associated works in the Townlands of Montpelier, Killakee and

Jamestown in South Dublin.

Attachments:

SDCS - Planning Ref. 06S.JA0040 - Final.pdf

From: South Dublin Conservation Society <sdcs02@gmail.com>

Sent: Wednesday 18 March 2020 21:29

To: Bord <bord@pleanala.ie>; Kieran Somers < K. Somers@pleanala.ie>; c.kellett@bordpleanala.ie

Cc: c.kellett@ipi.ie

Subject: Planning Application Reference No. 06S. JA0040 - Dublin Mountains Visitors Centre and all associated

works in the Townlands of Montpelier, Killakee and Jamestown in South Dublin.



Ms. Ciara Kellett, Planning Inspector, An Bord Pleanála.

Dear Ms. Kellett,

I'm writing on the behalf of the South Dublin Conservation Society to draw your attention to the following submission and attachments (Google link drive) in response to the additional further significant information lodged with An Bord Pleanála by South Dublin County Council on the 23/12/2019.

As a group of who has made its views to known the Board to date in relation to the above planning application, it is our belief that South Dublin County Council while approving a Climate Action Plan for its own administrative area now contradicts and contravenes its very own reasoning for the need to develop a visitor centre as the location proposed. The fact that the Council's consultants who undertook the drafting of a Climate Action Plan have made it known that works associated with the expansion of walking and cycling trails, etc, is likely to result in negative effects to the qualifying habitats of the Dublin and Wicklow Mountains hinterland which is worrying and of great concern even from a climate change mitigation measure. It is therefore a valid reason for An Bord Pleanála at this stage to refuse planning permission for the above development with immediate effect.

We hope that you will give the attached observations/submissions your utmost consideration.

Yours sincerely,

Pádraig MacOitir, and on the behalf of the South Dublin Conservation Society

South Dublin Conservation Society, c/o 4 Plasóga Choill Rua, Cill na Manach, Tamhlacht Baile Átha Cliath 24.

Ms. Ciara Kellett, Planning Inspector, An Bord Pleanála, 64 Marlborough Street, Dublin 1.

16th March 2020.

Re: Case Ref.: Planning Application Reference No. 06S. JA0040 – Dublin Mountains Visitors Centre and all associated works in the Townlands of Montpelier, Killakee and Jamestown in South Dublin – Submission of further significant information to An Bord Pleanála.

Dear Ms. Kellett,

I'm writing on the behalf of the South Dublin Conservation Society to outline our Society's response to the further significant information submitted to An Bord Pleanála by the applicant South Dublin County Council through its representative, Mr. Paul Keogh of Paul Keogh Architects. As a Society who has made numerous views known to date to An Bord Pleanála as part of the above planning application, it is our belief that South Dublin County Council once again have shown little regard to the natural and built heritage of the Montpelier, Killakee and Jamestown areas and is failing in its duty to protect the natural landscape and cultural heritage of the Dublin uplands/mountains area.

We wish to draw your attention to a policy decision which was approved and agreed at a full Council meeting which took place on the 7th May 2019 resulting in the elected members voting to approve South Dublin County's Council Draft Climate Change Action Plan. As a result, South Dublin County Council became the first Dublin local authority to approve a Climate Change Action Plan for the Greater Dublin region.

Attached is the media notice issued by South Dublin County Council on the 8th May 2019 announcing that decision and is entitled 'South Dublin County Council becomes the first Dublin local authority to approve a Climate Change Action Plan'.

Also attached are electronic copies of the documentation submitted to the elected members at this full Council meeting on the 7^{th} May 2019. While originally presented in draft format at the time, consequently they were published in a final printed form as of the 9^{th} September 2019 when they became Council policy. South Dublin County Council

launched its Climate Change Action Plan on the $10^{\rm th}$ September 2019. See attached press release confirming this fact.

We particularly would like to draw your attention to the Final Appropriate Assessment Natura Impact Report and particular to Table 6.2: Potential for Ecological Effects to result in adverse effects to the Qualifying Features/Special Conservation interests of European Sites (See pages 30 to 50) which makes references to the Glenasmole Valley SAC, Wicklow Mountains SAC and Wicklow Mountains SPA designations and potential negative impacts to habitat loss and fragmentation.

In relation to the Glenasmole Valley SAC qualifying features, I would draw your attention to the following wording which states 'Works associated with the expansion of walking and cycling trails and their subsequent use and any flood scheme works along the River Dodder represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with these actions and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status'.

The following wording also clearly outlines further potential negative impacts by stating that 'There is potential for works associated with the expansion of the walking and cycling network and their subsequent use or the provision of flood scheme works within or adjacent to this habitat to result in the spread of non-native invasive species that could undermine the status of this habitat'.

When it comes to the matter of disturbance and displacement, the assessment report clearly states that 'Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance'.

In relation to the Wicklow Mountains SAC qualifying features, the Assessment Natura Report clearly states the following wording when it comes to habitat loss and fragmentation, 'Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with this action and the subsequent use of trails in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status' (page 41).

When it comes to the matter of disturbance and displacement, the Assessment Natura Report clearly states that 'Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance'.

When it comes the Otter (Lutra lutra), the Assessment Natura Report clearly states the following wording in relation to potential habitat loss and fragmentation 'Works associated with the expansion of walking and cycling trails and their subsequent use represent the land. use activities of the Plan most likely to result in negative effects to this qualifying species. Works associated with this action and the subsequent use of trails in the vicinity of watercourses supporting this species could result in the loss of habitat for this species'. When it comes to the matter of disturbance and displacement of this species, the

assessment report clearly states 'Any works adjacent to or upstream watercourses within the SAC could result in disturbance and displacement of this species' (page 49).

In relation to the Wicklow Mountains SPA qualifying features and potential breeding raptors habitat loss and fragmentation, the Assessment Natura Report clearly states that 'Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities most likely to result in negative effects to this SPA. Works associated with this action and the subsequent use of trails within or in the vicinity of habitats upon which these species rely for breeding and foraging could have the potential to result in negative effects to their conservation status' (page 50).

When it comes to the issue of disturbance and displacement, the Assessment Natura Report clearly states that 'There is potential for works associated with the expansion of the walking and cycling network within or adjacent to the SPA to result in disturbance and displacement of breeding raptors within this SPA'.

It is our Society's belief that if An Bord Pleanála were to grant the go ahead for this visitor centre project, the proposed mitigation measures being proposed by South Dublin County Council in the documentation submitted as part of its significant information will in no way safeguard the Glenasmole Valley SAC, the Wicklow Mountains SAC and the Wicklow Mountains SPA's conservation status and would seriously contravene South Dublin County Council's own Climate Change Action Plan and would breach both the EU's Habitats and Birds Directives. While references are made to 'potential impacts', it is clear to state that once additional visitor numbers are encouraged and increased as a result of the construction of this proposed visitor centre, the potential impacts will become a reality.

South Dublin County Council's proposed mitigation measures as outlined in the further significant information submitted on the 23/12/2019 referred to in the document entitled Environmental Impact Assessment Report - Volume 1 - Updated Main Report in response to Request for Further Information for An Bord Pleanála - dated 6th February 2019 (pages 134 to 147) include such as information boards encouraging 'buy-in' from visitors to remain on trails, to be aware of specific NATURA 2000 sites and species, to keep dogs on leads and to be conscious of their surroundings. Human nature as it is, there is no guarantee that all visitors will 'buy in' voluntarily and the only way to safeguard the Glenasmole Valley SAC, the Wicklow Mountains SAC and the Wicklow Mountains SPA's and to protect rare and vulnerable species would have to be through the introduction of draconian measures, such as full time ranger staff, 24 hour/seven day week patrolling, large scale CCTV monitoring over a wider area, etc. which would make this visitor centre project not financially viable in the long term.

We would urge An Bord Pleanála once again to refuse planning permission for this proposed development as this Project as it is not consistent with the proper planning and sustainable development of the area. It is our Society's belief that South Dublin County Council while adopting a Climate Action Plan (2019-2024) for its own council administrative area has accordingly contradicted and contravened its very own planning application and undermined the reasoning behind the development of a visitor centre in the Dublin Mountains in the first instance. The fact that the Council's consultants, Codema/The Dublin

Climate Action Regional Office have made it known that works associated with the expansion of walking and cycling trails, etc., is likely to result in negative effects to the qualifying habitats of the Dublin and Wicklow Mountains hinterland is worrying and of great concern even from a climate change mitigation measure. It is therefore strong grounds for An Bord Pleanála at this stage to refuse planning permission for the above development with immediate effect.

Yours sincerely,

Pádraig MacOitir

On the behalf of the South Dublin Conservation Society

South Dublin County Council Launch Climate Change Action Plan

South Dublin County Council has today published its Climate Change Action Plan (CCAP) 2019-2024.

Dublin's climate is changing and this poses significant risks and challenges to all of those living in the region. In response to this, South Dublin County Council has produced the Climate Change Action Plan 2019-2024 in association with Codema (Dublin's Energy Agency) and the Dublin Metropolitan Climate Action Regional Office (CARO).

The Climate Change Action Plan, approved by the Elected Members of the Council in May, is recognised as a key enabler of on-going public sector leadership, in implementing and influencing climate action at the local level.

The Climate Change Action Plan identifies the main climate risks facing South Dublin County and includes both the Councils' and the current levels of greenhouse gas emissions across the South Dublin County Council area. It includes four targets for the Council to reach in the coming years:

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

Through the Climate Change Action Plan, South Dublin County Council has put forward 130 actions that are either ongoing or planned within the Council, under five key areas - Energy and Buildings, Transport, Flood Resilience, Nature-Based Solutions and Resource Management.

CCAP is aligned to the Government's 'Climate Action Plan 2019 To Tackle Climate Breakdown'. The leadership role of local authorities across Ireland, in tackling the climate crisis, is recognised in the National Plan, together with stimulating local level action across other sectors and by the general public.

The public consultation for the Climate Change Action Plan was held through a series of events and workshops between 11 February and 25 March this year. South Dublin County Council received a total of 73 submissions during this period.

Councillor Vicki Casserly, Mayor of South Dublin County Council, said, "I welcome the publication of the South Dublin County Council Climate Change Action Plan 2019-2024, which marks a significant step forward in the Council's efforts in combating the causes and impacts of climate change. In rolling out this Plan, the Council will continue to demonstrate local leadership, across a range of action areas, with the aim of supporting other sectors in carrying out their own climate change efforts, in particular citizens, businesses and community groups across South Dublin County. I look forward to the implementation of the

Plan, in collaboration with my colleagues in South Dublin County Council and the other Dublin local authorities'.

Daniel McLoughlin, Chief Executive of South Dublin County Council, said, "The publication of the Council's Climate Change Action Plan marks a key milestone in an on-going partnership between Council staff, elected members, Codema, the Dublin Climate Action Regional Office, and a range of other stakeholders. The Council is committed to continued climate action, across the key areas of adaptation, mitigation and public engagement. I also wish to recognise the continued Government support in this area, through funding mechanisms such as the Climate Action Fund, which the Council has already availed of for the Tallaght District Heating Scheme. The ongoing undertaking of a range of climate actions will enable South Dublin County, to contribute to reaching national and European energy targets to 2030, 2050 and beyond."

ENDS

Notes to Editor For further information, please see www.sdcc.ie/climatechange or contact the South Dublin County Council Communications Unit at communications@sdublincoco.ie

Additional information can be found on each of the Climate Change Action Plans for all four Dublin local authorities at $\underline{www.dublinclimatechange.ie}$

Codema is Dublin's Energy Agency and was set up as a not-for-profit limited company by Dublin City Council in 1997 under the SAVE II Programme of the European Union. It was one of 14 local energy agencies set up around Ireland to help local authorities meet their energy performance targets through professional development and implementation of good and best practice. It works with the four Dublin local authorities. Codema's role is defined around the core function of supporting the local authorities in their own sustainable energy use. A second role is engaging with EU and SEAI funded energy programmes to bring innovation to the Dublin region. A third and increasingly important role is to increase energy awareness among the citizens and energy stakeholders in Dublin. Over the years, these three strands have become increasingly intertwined and integrated into a comprehensive local and regional service for energy and climate change.

The Dublin Climate Action Regional Office (CARO) The Dublin Climate Action Regional Office (CARO), established in 2018, is one of four regional climate change offices that have been set up in response to the National Adaptation Framework 2018 (NAF). Under the NAF, sectoral adaptation plans are to be developed and implemented that will affect the work of the DLAs. As such, the Dublin CARO will liaise with respective government departments, to align actions undertaken by the DLAs with other sectoral climate plans. The role of the Dublin CARO is to: Assist the local authorities within the region in the implementation and monitoring of their own Climate Change Action Plans. Develop education and awareness initiatives for the public, NGOs and other agencies engaged in driving the climate action agenda, and contribute to the National Dialogue on Climate Action on a local and regional basis. Link with third-level institutions in developing a centre of excellence for specific risks — in the case of the Dublin Region, this will be for urban climate effects. Liaise and interact with the Dublin energy agency, Codema.

South Dublin County Council becomes the first Dublin local authority to approve a Climate Change Action Plan

Elected members at the monthly meeting of South Dublin County Council have voted to approve the Council's Draft Climate Change Action Plan. The Dublin Region is facing significant risks and challenges related to climate change. In response to this, each of the four Dublin Local Authorities has worked with Codema - Dublin's Energy Agency and the Dublin Metropolitan CARO office on developing individual Draft Climate Change Action Plans that outline how each local authority will act to prevent and adapt to the effects of climate change.

The Plans identify the main climate risks facing Dublin and outline both the Councils' and the region's current levels of greenhouse gas emissions.

They also outline all the actions that are ongoing or planned within the Councils and these are grouped under five key areas - Energy and Buildings, Transport, Flood Resilience, Nature-Based Solutions and Resource Management.

The public consultation for each of the four Draft Climate Change Action Plans was held through a series of events and workshops between 11 February and 25 March this year. South Dublin County Council received a total of 73 submissions during this period. There were 114 actions in South Dublin County Council's Draft Climate Change Action Plan; a further 17 have been added to the final document as a result of public submissions whilst another eight have been amended.

Daniel McLoughlin, Chief Executive of South Dublin County Council, said, "The level and detail of submissions received during the consultation period reflect widespread public concern on the urgent need to respond to climate change. South Dublin County Council is determined to do all within its power to improve energy efficiency and reduce greenhouse gas emissions. This involves working on our own buildings and operations, whilst also influencing the wider community, other public bodies and businesses. It further requires making the South Dublin County Council area more adaptive to the impacts of climate change."

ENDS

Notes to Editor More information can be found on each of the four Climate Change Action Plans at https://dublinclimatechange.codema.ie

About South Dublin County Council

South Dublin County is one of four local authority areas in the Dublin region. South Dublin County Council provides and funds a broad range of services including housing, roads, walking and cycling routes, parks and playgrounds, libraries, sports facilities, litter control, arts centres, enterprise units, fire services, community infrastructure and financial support. It also serves as a platform for local democracy with 40 councillors spread across six electoral areas. Bounded by the River Liffey to the North and the Dublin Mountains to the

South, the County lies 16 kilometres south-west of Dublin city centre and has an administrative footprint of 223sq. kilometres. The County has nine main villages Clondalkin, Lucan, Palmerstown, Rathfarnham, Tallaght, Templeogue, Saggart, Rathcoole and Newcastle and is bounded by adjoining counties of Wicklow, Kildare, Dublin City, Fingal and Dún Laoghaire.

About Codema

Codema is Dublin's Energy Agency and was set up as a not-for-profit limited company by Dublin City Council in 1997 under the SAVE II Programme of the European Union. It was one of 14 local energy agencies set up around Ireland to help local authorities meet their energy performance targets through professional development and implementation of good and best practice. It works with Dublin City Council, Dún Laoghaire—Rathdown, Fingal County Council and South Dublin County Council. Codema's role is defined around the core function of supporting the local authorities in their own sustainable energy use. A second role is engaging with EU and SEAI funded energy programmes to bring innovation to the Dublin region. A third and increasingly important role is to increase energy awareness among the citizens and energy stakeholders in Dublin. Over the years, these three strands have become increasingly intertwined and integrated into a comprehensive local and regional service for energy and climate change.

About Dublin CARO

The newly-established Dublin Metropolitan Climate Action Regional Office (CARO) is one of four regional climate change offices that have been set up in response to Action 8 of the 2018 National Adaptation Framework (NAF). Under the NAF, sectoral adaptation plans are to be developed and implemented that will affect the work of the DLAs. As such, the Dublin CARO will liaise with respective government departments to align actions undertaken by the DLAs with sectoral adaptation plans.

The role of the Dublin CARO is to:

- Assist the local authorities within the region in preparing their own Climate Change Action Plan.
- Develop education and awareness initiatives for the public, schools, NGOs and other agencies engaged in driving the climate change agenda and contribute to the National Dialogue on Climate Action on a local and regional basis.
- Link with third-level institutions in developing a centre of excellence for specific risks
 in the case of the Dublin Region, this will be for urban climate effects.
- · Liaise and interact with the Dublin energy agency Codema.







STRATEGIC ENVIRONMENTAL ASSESSMENT STATEMENT

SOUTH DUBLIN COUNTY COUNCIL

CLIMATE CHANGE ACTION PLAN 2019-2024

JULY 2019

Document Stage	Document Version	Prepared by
SEA Statement for review	1 28.05.2019	Ruth Minogue, MA(Econ) MCIEEM
Feedback and commentary received and integrated	2 07.06.2019	CARO and R MInogue

This report has been prepared by Minogue & Associates with all reasonable skill, care and diligence. Information report herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid. This report is prepared for South Dublin County Council and we accept no responsibility to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

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1 Introduction

South Dublin County Council (SDCC) approved the SDCC Climate Change Action Plan 2019-2024 (CCAP) at the council meeting on Monday 6th May 2019.

The main purpose of the SEA Statement is to provide information on the decision-making process, to document how environmental considerations, the views of statutory consultees and other submissions and the recommendations of the SEA Environmental Report and Natura Impact Statement, have been taken into account in the CCAP, as well as monitoring arrangements.

This SEA Statement includes the following information:

- •Summary of how environmental considerations have been integrated into the CCAP (Section Two)
- •Summary of how submissions received during consultation have been taken into account in the CCAP (Section Three);
- Reasons for choosing the recommended development scenario, in the light of other reasonable alternatives considered (Section Four);
- Measures that are to be undertaken to monitor the significant environmental effects of implementing the CCAP (Section Five).

2 Summary of how Environmental Considerations and the SEA Environmental Report have been integrated into South Dublin CCAP 2019-2024.

2.1 Introduction

The purpose of this section is to present a summary of how environmental considerations and consultation have informed the plan preparation process. Legislation and guidance relating to SEA recommends that the process of plan preparation, SEA and Appropriate Assessment (AA) should be integrated and prepared in an iterative process to facilitate the ongoing assessment and evaluation of environmental considerations during plan preparation. A multi-disciplinary team worked on the SEA and AA elements of the plan. Key tasks associated with the SEA were as follows:

TABLE 1 STAGES IN SEA

Stage of SEA	Plan
Stage 1 Screening	Screening is the first stage of SEA to determine if the plan requires full SEA. The SEA Regulations state that SEA is mandatory for certain plans while screening for SEA is required for other plans that fall below the specified thresholds. Given the scale, nature and extent of the CCAP, as well as the finding of likely significant effects identified by the Screening Statement in support of Appropriate Assessment, the CCAP progressed to the next stage of SEA – Scoping.
Stage 2 Scoping	The purpose of the SEA Scoping report is to identify the scope of the SEA and ensure that relevant data and environmental topics are included in the SEA. The Scoping report was issued to the statutory environmental authorities consultees in December 2018 for comment.
Stage 3 Environmental Report	The Environmental Report tells the story of the draft CCAP and how environmental considerations have been addressed and included during the preparation process. The appropriate assessment is also discussed in the Environmental Report. This report was the main consultation document of the SEA process and was on display alongside the plan along with supporting reports. The Draft CCAP, SEA ER and Natura Impact Statement were on public display for a six week period during February - March 2019.
Stage 4 SEA Statement- current stage	This stage is the final output of the SEA process and tells the story of the SEA process. It has been prepared now the CCAP is finalised and approved.

2.2 Baseline Data, Geographical Information System and environmental sensitivity mapping.

The baseline data assists in describing the current state of the environment, facilitating the identification, evaluation and subsequent monitoring of the effects of the plan. It helps identify existing environmental problems in and around the plan area and in turn these can be quantified (for certain environmental parameters) or qualified. This highlights the environmental issues relevant to each SEA parameter and ensures that the plan implementation does not exacerbate such problems. Conversely this information can also

be used to promote good environmental practices and opportunities for environmental enhancement, thereby improving environmental quality where possible.

Baseline data was gathered for all parameters. Other data was gathered from the SEA ER of the South Dublin County Development Plan 2016-2022, baseline research undertaken by Codema, Irish Water, the EPA, Met Eireann and other sources as appropriate.

The SEA has also used a Geographical Information System (GIS) in the following ways:

- To provide baseline information on a range of environmental parameters;
- To assist in assessment of alternatives;
- To help assess in-combination or cumulative impacts, and
- To provide maps to illustrate environmental parameters in the SEA Environmental Report.

2.3 Mitigation

Mitigation involves ameliorating significant negative effects. Where the environmental assessment identifies significant adverse effects, consideration is given in the first instance to preventing such impacts or where this is not possible, to lessening or offsetting those effects. Mitigation measures can be generally divided into those that:

- Avoid effects;
- Reduce the magnitude or extent, probability and/or severity of effect;
- Repair effects after they have occurred, and
- Compensate for effects, by balancing out negative impacts with positive ones.

The iterative process of the CCAP preparation has facilitated the integration of environmental considerations into the formulation, layout and text of the plan. In addition, potential positive effects of implementing the plan have been and will be maximised and potential adverse effects have been and will be avoided, reduced or offset.

Many impacts will be more adequately identified and mitigated at CCAP action implementation, masterplan, project and EIA level. In general terms, all proposals for development will be required to have due regard to environmental considerations outlined in this Environmental Report and associated assessments. Proposals for development which are deemed contrary to the environmental objectives contained in the South Dublin CDP 2016-2022 will not normally be permitted, and if permitted, will be developed with specific mitigation measures.

The CCAP has been prepared having regard to the policies and objectives outlined within the South Dublin CDP Plan 2016-2022. The environmental protection measures for the CDP 2016-2022 are included in the SEA ER. The SEA ER (Chapter Nine) has the full list of mitigation measures.

2.3.1 Mitigation Measures-

The following table presents the mitigation measures recommended for the CCAP from the SEA and Appropriate Assessment process. Subject to minor amendments, these were included in the SDCC CCAP 2019-2024 as approved. The final recommendations and text is provided below in Table

Table 2 Mitigation Measures

	Mitigation Measure
	Transport Actions
5	Strengthen traditional villages by improving the public realm through enhancement of green infrastructure measures and sustainable transport linkages
	Flood Resilience
13	Develop template to capture impacts, response and costs (including ecosystem services/natural capital costs) for all major climate events
15	Update DLA urban drainage and flooding policies for current knowledge of flood risk and the latest best practice in drainage design promoting natural flood measures as a priority
20	Minor flood schemes and general maintenance that are designed and implemented to promote nature based solutions where practical
21	Communication and awareness campaigns on flood risk management and natural flood management measures
	Nature Based Solutions
22	Include native species into local authority plans where appropriate as a key nature based measure where appropriate

3 Summary of how consultations were taken into account.

3.1 Introduction

Throughout the preparation of the CCAP and the SEA ER, consultation was undertaken at key points in the process.

Further information is available in the following SEA Reports:

- SEA Scoping report issued December 2018
- SEA Environmental Report issued February 2019
- SEA advice on public submissions and Chief Executive's recommendations
- SEA commentary on Chief Executive's recommendations
- SEA and AA Screening on Chief Executive's recommendations.

The following section summarises key points and how they were addressed in the SEA and the CCAP 2019-2024.

3.2 Consultation on SEA- Scoping and Environmental Report

The purpose of the SEA Scoping report is to identify the scope of the SEA and ensure that relevant data and environmental topics are included in the SEA. The SEA ER accompanied the CCAP display period that took place over a six week period in February - March 2019. The table below summarises key points raised during the SEA Scoping Stage, and the SEA ER stage.

Table 3 Environmental Consultation-Scoping Stage

nsult	ee Key Issue Raised	SEA Response
	ic Officer, SEA Section of Evidence and Assessment. Environmental Protection Agency, Regional Inspectorate, Inniscarra, County Cork	
	We welcome the preparation of the Plan, which sets out a clear set of actions to be taken by South Dublin County Council, in collaboration with other key stakeholders, over the next five years. The inclusion of clear targets will facilitate monitoring and reporting on the Plan implementation, which should in turn help to drive delivery.	Noted
	We recognise the fundamental importance of ensuring that the National Transition Objective is underpinned by a clean, healthy and well-protected environment. Considering this, it is important to develop and implement the Plan within the context of a wider and more integrated approach to environmental protection. The SEA should play a key role in ensuring that this is achieved and should inform decision-making around assessment and selection of actions and measures.	Noted, the SEA and AA have helped to inform plan preparation and please see Chapter 8 Mitigation in particular
	The SEA should also assist in identifying ways to maximise the potential co-benefits of climate-related measures for air quality, human health, biodiversity, water quality and other interrelated areas (i.e. win-win solutions). A key role of SEA is in assessing and informing the selection and refinement of actions and measures that maximise the co- benefits of climate actions for the wider environment and society, should be highlighted in the SEA Report and the Plan.	Noted, in particular certain actions in each theme already provide co-benefits and the SE has provided additional mitigation to further enhance certain actions please see CCA and Chapter 8 Mitigation of th SEA ER
	Relevant Plans and Programmes You should ensure that the Plan aligns with national commitments on climate change mitigation and adaptation. Actions and measures proposed should be consistent with the National Policy Position on Climate Action and Low Carbon Development, the National Mitigation Plan and the National Adaptation Framework, as well as considering any relevant sectoral and regional adaption plans. We recommend including a flow diagram or/ schematic, illustrating where the Plan fits within the hierarchy of land-use, climate and related plans	Noted and agreed, in response to this comment the SEA ER included a table that highlights consistency with these plans and programmes and also provides a preliminary schematic to illustrate the hierarchy of plans and

Itee Key Issue Raised	SEA Respons
	Please see Chapter 3.
It would be useful to explain the relevance of the various plans listed in section 2 of the SEA Scoping Report to the CCAP, for example by way of an additional column. Reference to the Draft Regional Spatial Economic Strategy, currently at consultation, should be included.	Noted and agreed. Chapter 3 has been amended to provide this and a more detailed overview of key relevant plans and programmes is provided in Annex B of this SEA ER.
Greenhouse Gas Emissions In preparing the Plan and SEA, the direct and indirect impacts of the Plan on greenhouse gas emissions and removals should be assessed. The Agency's most recent projections report Ireland's Greenhouse Gas Emissions Projections for 2017-2035 (EPA, 2018) should be taken into account.	Noted. With support from the Sustainable Energy Authority o Ireland (SEAI), Codema developed an energy and emissions baseline, which shows the current level of emissions and energy efficience
The National Mitigation Plan (NMP) identifies 106 actions to decarbonise electricity generation, the built environment and transport and to move towards carbon neutrality for agriculture, forest and land use sectors. The Plan should integrate and align with the relevant actions in the NMP, as appropriate.	for both SDCC's own operation and emissions for the whole of South Dublin County Consideration of significant effects in Chapter Seven of this SEA ER discusses this point.
	Noted, this SEA ER addresses this in Table 3 and shows where the South Dublin CCAP actions are consistent with the National Mitigation Plan. Please note that many of the actions in the National Mitigation Plan are identified at central

ultee Key Issue Raised	SEA
	Respon government level rather than local authority.
In preparing the Plan and SEA, you should consider how the impacts of climate change, individually and in combination, are likely to influence the implementation of the Plan. The Plan should look to improve resilience of existing and planned critical infrastructure, systems and procedures to the effects and variability of climate change. Recent extreme weather events could be useful to assist in identifying areas where for further work is needed to improve resilience, e.g. the resilience of critical water service infrastructure to flooding and drought. The Plan should include appropriate adaptation measures that can be implemented either directly or through relevant land use plans and/or specific plans e.g. Flood Risk Management Plans, Integrated Coastal Zone Management Plans etc. The Plan will also help inform local authority land use and transport planning within the county.	Codema carried out an adaptation risk assessment o behalf of DCC, which identifie and assesses the current climate change risks facing South Dublin. Research into people's attitudes and awareness was used in order inform the stakeholder engagement actions of the pl A key principle and stage of t CCAP relates to adaptation are responses to same.
Additional aspects to consider may include changes in native species and habitats and the spread of invasive species, pests and pathogens.	Noted, this is highlighted in Chapter 4 Baseline as a key issue for biodiversity and human health
EPA State of the Environment Report 2016 The EPA published our most recent State of the Environment Report in 2016 'Ireland's Environment – An Assessment (EPA, 2016). The recommendations, key issues and challenges described within this report should be	Noted and utilised in this SEA ER. Please see Chapter 3.

	Key Issue Raised	SEA Respo
	dered, as relevant and appropriate to the Plan area in preparing the Draft CCAP and associated SEA. This tan be consulted at: http://www.epa.ie/irelandsenvironment/stateoftheenvironmentreport/	
finalis This in the fo air qu	elcome that the Plan will take into account the Draft National Clean Air Strategy (DCCAE), due to be ed in 2019. Recent EPA reports on air quality should also be considered, in preparing the Plan and SEA. Includes the Air Quality in Ireland 2017 Report (EPA, 2018) which sets out the most recent status in each of our air quality zones in Ireland. Data on levels of atmospheric pollutants from the EPA's national ambient ality monitoring network (http://www.epa.ie/air/quality/monitor/), should also integrated as appropriate. ollutants of most concern are traffic-related, including Particulate Matter and Nitrogen Dioxide.	Noted this is used in Chapter Baseline Environment
Noise Plan a	The Plan should take into consideration available noise action plans prepared within and adjacent to the rea.	Noted and included in Chapt Four.
Availa	ble Guidance & Resources Climate	Noted
(EPA,	PA has published guidelines to support Local Authorities in developing local climate adaptation strategies 2016). The DCCAE have incorporated this EPA guidance into national level Guidelines, to also assist local rities prepare adaptation strategies. (DCCAE, 20185).	
gover	limate Ireland' website provides information, support and advice to help local authorities, sectors and nament departments to adapt to climate change and includes a Local Authority Adaptation Support Wizard. be consulted at http://www.climateireland.ie/#/	
	vable Energy The recently published Interim Guidelines for Planning Authorities on Statutory Plans, vable Energy and Climate Change (DHPCLG, 2017) should be taken into account, where relevant.	
the na	Quality Our WFD Application provides a single point of access to water quality and catchment data from tional WFD monitoring programme. The Application is accessed through EDEN https://wfd.edenireland.ie/available to public agencies. Publicly available data can be accessed via the Catchments.ie website	

Table 4 Submissions on SEA ER and CCAP

Consultee	Comments on the Environmental Report	SEA Response
Cian O'Mahony Environmental Pi	rotection Agency	
1	Health related aspects It would be useful to include additional information on the potential health impacts of climate change (e.g. hot and cold extremes) and how they are to be addressed. The interactions with the health sectoral adaptation plan should also be discussed.	Chapters Four and Seven of the SEA EF will be expanded upon to highlight and discuss the health related aspects.
2	SEA and Plan Integration We recommend that consideration is given to including a subsection in the Plan, showing how the SEA has influenced its preparation. This would serve to clearly show the link between the Plan and SEA processes.	A section in the Final CCAP will be included that provides information on how the SEA and AA has influenced the plan process.
		Proposed changes to the CCAP through the Chief Executives Report have been screened for SEA and AA to ascertain if likely significant environmental effects or significant effects on European sites would arise.
		Both processes have identified additional mitigation measures for the CCAP and the SEA has also provided for a monitoring regime, which is included within this CCAP All mitigation measures identified for

Consultee	Comments on the Environmental Report	SEA Response
		the CCAP through the SEA and AA process will be adhered to and implemented over the course of the plan.
3	Assessment of Alternatives We welcome that the EPA 'Developing and Assessing Alternatives in Strategic Environmental Assessment' (2015) guidance document has been considered in preparing and assessing alternatives. We also note the alternatives considered in the SEA, and the selection of the preferred alternative	Noted
4	Additional Plan Considerations Irish Water's Draft National Water Resources Plan should be useful to refer to, in terms of ensuring security of drinking water supply within the Plan area, is also considered. This plan includes consideration of climate change impacts. Aligning adequate and appropriate critical service infrastructure and population / economic growth of the Dublin region is essential.	Noted and agreed. Chapters 4 and 7 of the SEA ER will be expanded in the material assets section to discuss this. Chapter 3 will include reference to the Draft National Water Resources Plan
5	The link between the Plan and the sectoral adaptation plans could also be expanded on. This would clarify the alignment between the plan and other higher level sectoral plan.	Noted and agreed. Chapter 3 of the SEA ER will expand upon this and the links to other high level sectoral plans where appropriate
	Mitigation Measures	
6	We acknowledge the SEA recommendations, to improve the Plan in terms of integrating wider environmental considerations into the Plan. We note the recommendation to prepare and implement a coastal zone management plan for Dublin Bay. This should be prepared in collaboration with relevant stakeholders and consider the requirements of the SEA and Habitats Directives, as appropriate.	Noted, during the preparation of such a plan, the existing mitigation measures of the South Dublin CDP will apply as listed and presented in

Consultee	Comments on the Environmental Report	SEA Response
		Chapter 8 of the SEA ER.
7	In relation to the application of strategic urban drainage systems as part of flood risk management actions described, these should be supported by relevant monitoring and maintenance also to ensure they operate effectively over the lifetime of the Plan.	Noted
8	Where the potential for likely significant effects is identified, appropriate mitigation measures should be recommended and implemented, to avoid or minimise these. You should ensure that the Plan includes clear commitments to implement these mitigation measures	Noted – it is recommended that as part of the text on the influence of the SEA and AA on the plan preparation, a specific commitment is included regarding mitigation measures and adherence to same. Please see the CCAP for this commitment as addressed in Point 2 SEA and Plan Integration above.
9	Monitoring The Monitoring Programme should be flexible to take account of specific environmental issues and unforeseen adverse impacts should they arise. It should consider and address the possibility of cumulative effects. Monitoring of both positive and negative effects should be considered. We welcome that the proposed SEA monitoring programme sets out the various data sources, monitoring frequencies and responsibilities. We recommend that the SEA Monitoring of environmental receptors, as set out in Table 12 (Chapter 9 - Monitoring) of the SEA, is incorporated into the Plan review to monitor how effectively environmental considerations are being implemented.	SEA recommends inclusion of the Monitoring Table in the final Plan. The introduction to Chapter 9 monitoring of the SEA ER highlights additional monitoring in the event of unforeseen and cumulative effects arising.
	Where possible, additional information on monitoring and indicators of the transition should be considered to ensure that resources continue to be appropriately directed and to help avoid unintended secondary adverse impacts	Noted, Given that the SEA monitoring table will provide environmental monitoring

Consultee	Comments on the Environmental Report	SEA Response	
		of the CCAP as well as annual monitoring of the CCAP, it is	
		considered sufficient at this point to	
		capture the transition based on annual	
		monitoring of the action plan.	
		supported by SEA monitoring.	
	The potential for environmental impacts of 'grey' and 'green' adaptation options will	Noted and agreed.	
	differ. Where 'grey' adaptation options are chosen / proposed to be implemented, these	Mitigation Measures for 'grey'	
	should be adequately mitigated for, to minimise potential adverse significant	infrastructure will be highlighted in the	
	environmental effects.	Final SEA ER	
	Should the monitoring identify adverse impacts during the implementing the Plan, South	Noted, this statement is included in	
	Dublin County Council should ensure that suitable and effective remedial action is taken.	the SEA ER.	
	It is noted in Milestone 5 that the Plan will be monitored and updated on an annual	Noted, this statement will be included	
	basis, with a review and revision every 5 years. Any updates to the Plan, should be	in the final CCAP, see also proposed	
	screened in the context of SEA and Appropriate Assessment requirements	text below	
	Monitoring should capture the overall achievement of the actions set out in the Plan and the contribution to the overall combined actions and targets of the four local authority	Noted –	
	plans.	It is recommended an additional text	
		be provided to the above to highlight	
		consistency with the requirements of	
		the SEA Directive and reflecting the	
		submission by the EPA, as follows:	
		Monitoring at local authority level is in	
		line with current best practice such as	
		EU Covenant of Mayor's approach.	

Consultee	Comments on the Environmental Report	SEA Response	
		Each CCAP will be submitted to the	
		Department of Communications,	
		Climate Action and Environment.	
		Under current obligations monitoring	
		is adequately addressed in the CCAP	
		and SEA. In addition, this may be	
		premature in light of forthcoming Final	
		Eastern Midland and Regional Spatial	
		and Economic Strategy and upcoming	
		Whole of Government Climate Action	
		Plan	
	Future Amendments to the Plan You should screen any future amendments to the Plan	Noted, and agreed. See above text	
	for likely significant effects, using the same method of assessment applied in the "environmental assessment" of the Plan.	which addresses this point.	
	SEA Statement – "Information on the Decision" Once the Plan is adopted, you should	Noted, the SEA Statement will be	
	prepare an SEA Statement that summarises: How environmental considerations have been integrated into the Plan; How the Environmental Report, submissions, observations and consultations have been taken into account during the preparation of the Plan; The reasons for choosing the Plan adopted in the light of other reasonable alternatives dealt with; and, The measures decided upon to monitor the significant environmental effects of implementation of the Plan.	prepared and issued upon adoption of the CCAP.	
	Very bould and a server of the CEA Contemporary with the phase information to any	Noted and agreed.	
	You should send a copy of the SEA Statement with the above information to any environmental authority consulted during the SEA process.	Noted and agreed.	
Dylan Potter Geo	environmental authority consulted during the SEA process.		

	Geoheritage		

Consultee	Comments on the Environmental Report	SEA Response		
	Information provided on Geoheritage data.			
	Groundwater With regard to Flood Risk Management, there is a need to identify areas for integrated constructed wetlands. We recommend using the GSI's National Aquifer and Recharge maps on our Map viewer to this end.	Noted, this will be highlighted in the SEA ER and Action 11 of the SDCC CCAP — Action 11 of the SDCC CCAP states: Integrated constructed wetlands for water attenuation and purification.		
	Urban Geology As the proposed developments take place in an urbanized environment, we suggest looking at our Urban Geology section on our website. Geological Survey Ireland produces urban geoscience data on a project basis, informing the areas of soil geochemistry and contamination, 3D modelling of ground conditions, and assessing ground motions that present a hazard to citizens in the urban environment. We also have a GeoUrban section to our Map Viewer which covers the Greater Dublin Area. Nature based solutions should be considered even in an urban environment. For example, an analysis of soil sealing could be done to determine levels of permeability in the Greater Dublin Area. We recommend using the GSI's Quaternary subsoil map and geotechnical database for this task.	Noted		
	Coastal Vulnerability Vulnerability of the coast is intimately correlated to its characteristics and the intricate physical processes that intervene on its evolution. Strategies for coastal protection should include information from local to regional coastal vulnerability and impact assessments. Geological Survey Ireland is undertaking a new coastal vulnerability to sealevel rise mapping initiative. The maps produced in this project will aim to identify the coastal regions most likely to be affected by impacts of sea-level rise by using a coastal Vulnerability index (CVI) approach. Areas of assessment will include getting upto-date information on current state of coastal defences, records of areas of inundation during extreme events for validating models and access to quality controlled and publically available tide gauge records for Dublin Bay.	Noted. Reference to this data, modelling and the Coastal Change for Space research project will be included in the SEA ER.		

Consultee	Comments on the Environmental Report	SEA Response	
	Management strategies for adaptation should be flexible and centred on monitoring the most vulnerable areas. Monitoring short and long-term responses in soft cliffs, such as shoreline and sediment volumetric changes is key to understand coastal behavior and to validate forecasting models. The current ESA (European Space Agency) funded coastal erosion project (Coastal Change from Space), which GSI is a partner will extensively look at some of these issues over the next two years (2019-2021). This project will provide an intertidal extent model and shoreline extraction tools, will monitor sediment change in the near shore using primarily satellite derived bathymetry, and quantify backshore to foreshore sediment volumetric change over the last 20 years for targeted areas.		
Oonagh Duggan BirdWatch Ireland			
	5.0 Biodiversity Adaptation to Climate Change Ireland's draft Biodiversity Sectoral Climate Change Adaptation Plan8 which is subject to public consultation until April 17 2019 states that 'Irish biodiversity is highly vulnerable to the impacts of climate change and has a low adaptive capacity compared to other vulnerable sectors. Climate change has major indirect impacts on Irish biodiversity through its interaction with other stressors, in particular habitat fragmentation and loss; overexploitation; pollution of air, water and soil; and spread of invasive species'. We would encourage that the local authority or CARO would review the final national biodiversity action plan when it is completed to ensure coherence between plans for the Greater Dublin Area with the national biodiversity adaptation plan.	Noted, the SEA ER chapters Three will reference the draft Biodiversity Sectoral Climate Change Adaptation Plan along with any other required updates. Chapter 4 of the SEA ER will restate this finding and highlight same as a key issue and challenge.	
	6.0 Waterbirds and Sea Level Rise In 2013 BirdWatch Ireland published a report on the Impacts of Sea-level Rise on the Birds and Biodiversity of Key Coastal Wetlands9. The report assessed the level of risk posed to each of 52 waterbird species by increasing sealevels such that those risks are:	Noted. These comments will be included in the final SEA ER.	
	o high for species with wholly coastal species distributions and which rely on intertidal	The mitigation measure proposed in	

Consultee	Comments on the Environmental Report	SEA Response	
	habitats (such as Shelduck Tadorna tadorna Knot Calidris canutus and Sanderling Calidris alba), to medium for species as above but that can feed in alternative locations, such as on grasslands (Light-bellied Brent Goose Branta bernicla hrota, Oystercatcher Haematopus ostralegus and Black-tailed Godwit Limosa limosa) and for those with predominantly coastal distributions but which are localised in Ireland (Greenland White-fronted Goose Anser albifrons flavirostris and Bewick's Swan Cygnus columbianus bewickii), and to low for other waterbirds whose distributions are not restricted to the coast (e.g. Teal Anas crecca, Golden Plover Pluvialis apricaria and Lapwing Vanellus vanellus) or which occur predominantly in deeper water (e.g. Red-throated Diver Gavia stellata, Great Crested Grebe Podiceps cristatus, Cormorant Phalacrocorax carboand Common Scoter Melanitta nigra)	relation to retrofitting of housing and swifts is recommended for inclusion in the CCAP. This is included in the Final CCAP.	
	Dublin Bay is the fourth most important site in the country for wintering waterbirds. It is critical that research is undertaken on the climate change impacts to waterbirds within Dublin City but also within the context of the Greater Dublin area where there is significant movement of species between wetlands. In relation to waterbirds which frequent coastal sites BirdWatch Ireland recommends the following in the context of this Climate Action Plan:		
	1. A thorough review of coastal sites that are of importance to coastal waterbirds is required, with particular emphasis on the SPA/ Natura 2000 network. The Office of Public Works is already some way towards modelling likely change and identifying vulnerable sections of coast, and such information once available is essential to this review. This review should:		
	a. Set out to quantify the impact of sea-level rise on coastal birds and their habitats. b. Identify sections of the (national) coastline that are used by significant numbers of coastal waterbirds (high and medium-risk especially) and explore/promote managed realignment to minimise impacts of sea-level rise over time.		
	2. Coastal sites are under increasing pressure from a range of anthropogenic sources such as human development, fisheries, aquaculture and human recreation. It is likely that these factors will operate cumulatively with the effects of climate change10 to result in some sites being at greater risk or more vulnerable to biodiversity loss than		

others. There is therefore an increasing need to understand the cumulative nature of pressures already operating at our coastal sites and to predict how this may be exacerbated by sea-level rise in the future. 3. In addition, the greatest of efforts must be made to reduce the existing pressures and threats to waterbirds within the control of Dublin City Council including development, pollution, disturbance issues caused by dogs off leash on beaches and in the coastal environment and disturbance from people and recreational activities in sensitive 4. Internationally important migratory species such as Brent Geese can utilise the playing pitches including those of school grounds to forage when eel grass supplies have reduced at coastal sites. These areas are hugely important within a climate change adaptation scenario for Brent in the future and need to be secured. 7.0 Breeding river birds Dublin's rivers and associated habitats are known to contain breeding Annex 1 Kingfisher, Dipper, Grey Wagtail, and Sand Martin. In order to protect nest sites and to provide adaptation solutions under a changing climate but also within the context of any flood mitigation measures, BirdWatch Ireland recommends that further survey work is undertaken to determine where these birds are breeding so as to conserve and improve breeding sites and also to prepare an evidence-based report on appropriate adaptation measures for these important species. Ensuring that river ecosystems are healthy and support fish and insect populations stocks is also critical as these are food sources for these bird species. 8.0 Breeding Swifts BirdWatch Ireland is concerned that with the potential for deep-retrofit, energy-saving projects that some Swift breeding sites may be lost due to construction work. It is really important that Swift breeding sites are investigated in Dublin and that any works to buildings with known breeding sites include actions such as insertion of 'Swift bricks' to provide alternative nesting sites for them. All new builds or deep retrofit programmes should also include Swift bricks in those projects. BirdWatch Ireland's publication Saving Swifts is due out in 2019 and will help inform the conservation of Swifts in Ireland."

Consultee	Comments on the Environmental Report	SEA Response	
	9.1 The Natura Impact Report lists that the NIR for the East Midlands Regional Spatial and Economic Strategy (RSES) has been concluded and that there are no significant adverse impacts on the European sites in this area. However, the RSES has been reopened for public consultation due to material developments which alter the original plan distributed for consultation. Further, these actions have been subject to Article 6.3 assessment, but the final plan has not been agreed.	AA: The material amendments and reopening of the RSES is noted, the consultation stage has now closed; its status will be assessed as part of the updating to the CCAP, NIS and SEA ER.	
	It is premature to state that as the NIR does that there are no impacts as the plan is not finalised since it is not clear if mitigation actions within the NIR will be incorporated into the final plan.	The Mitigation Actions within the NIS and SEA ER will be incorporated into the final plan.	
	9.2 There is no mention of the requirements of Article 4(4) of the Birds Directive the second sentence of which states 'Outside these protection areas, Member States shall also strive to avoid pollution or deterioration of habitats'. This is reaffirmed in Article 27 (4)(b) the European Communities Birds and Habitats Regulations (2011). In 2007 the European Court of Justice ruled against Ireland in C-418/0411 'The Birds Case' for various breaches of the Birds and Habitats Directives including on Article 4 (4) which are still being addressed by the State(see Programme of Measures to comply with the ECJ Ruling)12.	Noted, this will be included in the SEA ER and the NIS.	
	There is no reference to the requirement that local authorities must strive to avoid the deterioration of the habitats of Annex 1 bird species found outside of European sites. In addition, it is important to recall that the Birds Directive also calls for protection of birds in the wider countryside (outside of SPAs) and this is detailed further in the NPWS Programme of Measures to address compliance issues in C-418/04. All efforts must be made to enforce the regulations to support birds in the wider countryside.		
	9.3 BirdWatch Ireland would like clarification on the statement in the NIR that there will be no significant adverse affects on the European sites when it is unclear whether the suggestions in Table 7.2 will be incorporated into the final plan. This element of doubt means that NIS is open to challenge. The suggested text is NOT in the draft climate action	Noted, for clarification the mitigation measures in Table 7.2 will be included in the final plan.	

Consultee Comments on the Environmental Report SEA Response

plan submitted for consultation. We would appreciate clarification of this.

3.3 SEA and Chief Executives report

As the Chief Executive was preparing responses and recommendations in relation to submissions received from the public, prescribed bodies including Environmental Authorities on the Draft CCAP, the SEA provided a commentary on these emerging recommendations.

Commentary from the SEA (and AA) in terms of the recommendations of the CE, can be found in the Chief Executive's Report on Submissions Received (May 2019).

4 Consideration of Alternatives

4.1 Introduction

One of the critical roles of the SEA is to facilitate an evaluation of the likely environmental consequences of a range of alternative development scenarios, in this case the South Dublin CCAP 2019-2024.

These alternative development scenarios should meet the following considerations:

- Take into account the geographical scope, hierarchy and objectives of the plan –be realistic
- Be based on socio-economic and environmental evidence be reasonable
- Be capable of being delivered within the plan timeframe and resources –be implementable
- Be technically and institutionally feasible be viable

In developing, refining and assessing the alternatives for the CCAP, the toolkit included in Developing and Assessing Alternatives in Strategic Environmental Assessment Good Practice Guidance (EPA 2015) was utilised.

4.2 Alternative Scenarios for South Dublin CCAP 2019-2024

In a Strategy towards Climate Change Actions Plans for Dublin 2017, seven focus areas were identified as having the greatest potential to help the Dublin LAs move towards a zero-carbon society and adapt to the effects of climate change. These focus areas were as follows:

 Water, Waste, Planning, Transport, Energy, Ecosystems and Biodiversity and Citizen Engagement.

The focus areas can have predominately either mitigation or adaptation solutions, or both. For example, the Energy focus area mainly concerns mitigation (i.e. reducing the use of fossil fuels and their associated CO2 emissions), while Water largely focuses on adapting to changes that are occurring or will occur in the near future due to climate change. Meanwhile, the Citizen & Stakeholder Engagement focus area concerns both mitigation and adaptation.

The aim of the CCAP is to work with the other Dublin local authorities in a co-ordinated manner to achieve the actions identified as being capable of implementing over a Five Year Period whilst also contributing to both mitigation and adapting to climate change. In considering Alternative Scenarios for the CCAP, the following questions were used to help frame the Consideration of Alternatives¹:

¹ Adapted from Figure 4.3 Developing and Assessing Alternatives in the Strategic Environmental Assessment Process (EPA, 2015).

WHY?

Can the objectives be met without a new plan/programme?

- Is the alternative viable? Is it a reasonable/realistical ternative?
- Are there other relevant considerations (e.g. AA, WFD, FRA)?

What?

How should the alternative be implemented (e.g. using which technology/method)?

 Can environmental best practice be applied to meet the need?
 Can environmentally less damaging methods be applied?

Where

Where is the alternative intended to go?

What is its exent?

Can alternative locations be identified for the identified technologies/methods/zonings?

Are these less environmentally sensitive?

When?

What are the details of the timeframe for implementation/

which are the critical detailshere is the alternative intended to go? What is its extent? •Can alternative locations be identified for the identified technologies/methods/zonings? •Are these less environmentally sensitive?

Therefore the Alternatives considered are as follows:

TABLE 5 ALTERNATIVES CONSIDERED

	Why Can the objectives be met without a new plan/programme? Is the alternative viable? Is it a reasonable/realistic alternative? Are there other relevant considerations (e.g. AA, WFD, and FRA)?	What What? How should the alternative be implemented (e.g. using which technology/method)? •Can environmental best practice be applied to meet the need? •Can environmentally less damaging methods be applied?	Where Where? Where is the alternative intended to go? What is its extent? Can alternative locations be identified for the identified technologies/methods/zonings? Are these less environmentally sensitive?	When When? What are the details of the timeframe for implementation/ which are the critical details here is the alternative intended to go? What is its extent? •Can alternative locations be identified for the identified technologies/methods/zonings? •Are these less environmentally sensitive?
Alternative 1: Do-Nothing (rely CDP policies and objectives to address and adapt to climate change)	This alternative could see the do nothing scenario be continued by using the existing CDP policies and landuse zonings to continue to adapt and plan for effects on climate change.	Through using climate change policies in the CDP and providing the landuse framework for responding to climate change. Landuse activities relevant could include renewable energy, transport and flood risk management	This would include South Dublin County .	This would cover the timeframe of the current CDP upto 2022
Alternative 2: Prioritise largest greenhouse gas emission sectors – Energy and Transport	This would require the preparation of an action plan that would concentrate on energy and transport for Fingal as a means to address and respond to climate change	It would prioritise measures that would reduce energy emissions, promote renewable energy and sustainable transport projects	This would include South Dublin County.	This would likely reflect the timeframe of the CDP given its landuse implications.

	Why Can the objectives be met without a new plan/programme? •Is the alternative viable? Is it a reasonable/realistic alternative? •Are there other relevant considerations (e.g. AA, WFD, and FRA)?	What What? How should the alternative be implemented (e.g. using which technology/method)? •Can environmental best practice be applied to meet the need? •Can environmentally less damaging methods be applied?	Where Where? Where is the alternative intended to go? What is its extent? Can alternative locations be identified for the identified technologies/methods/zonings? Are these less environmentally sensitive?	When When? What are the details of the timeframe for implementation/ which are the critical details here is the alternative intended to go? What is its extent? •Can alternative locations be identified for the identified technologies/methods/zonings? •Are these less environmentally sensitive?
Alternative 3: Approach the priority areas in a balanced manner to provide for both responses to climate change impacts (adaptation) and reduce greenhouse gas emissions mitigation).	This is the existing CCAP. It would consider a mixture of adaptation and mitigation measures for the climate change action plan and would include citizen engagement and awareness raising throughout. It would be underpinned by a baseline assessment of greenhouse gas emissions and sectoral use in the county	This would include a suite of measures that would aim to bring co-benefits where possible and rely on nature based solutions where possible	This would be tailored to South Dublin County but prepared as part of a broader regional approach to climate change	This would extend to 2024 and include a detailed monitoring regime to allow for annual reporting and monitoring of actions.

Why What Where When Can the objectives be What? Where? When? met without a new How should the Where is the alternative intended to What are the details of the plan/programme? alternative be go? timeframe for implementation/ implemented (e.g. using •Is the alternative What is its extent? which are the critical details here is viable? Is it a which Can alternative locations be the alternative intended to go? reasonable/realistic technology/method)? identified for the identified What is its extent? •Can alternative? •Can environmental best technologies/methods/zonings? alternative locations be identified ·Are there other practice be applied to Are these less environmentally for the identified relevant meet the need? •Can sensitive? technologies/methods/zonings? considerations (e.g. environmentally less · Are these less environmentally AA, WFD, and FRA)? damaging methods be sensitive? applied?

In terms of all SEOs, Alternative 3 is identified as creating most positive interactions as it provides greater environmental performance overall and also allows for a greater environmental gains, than may be achieved through Alternatives 2 and 1. In addition, the mulit faceted approach contributes to greater co-benefits by providing for a wider range of environmental effects particularly around nature based solutions and resource management. The inclusion of measures for citizen engagement and awareness raising through the CCAP option is also positive for a number of SEOs.

5 Monitoring

5.1 Introduction

The targets and indicators are derived from the Strategic Environmental Objectives (SEOs) discussed in Chapter Five. The target underpins the objective whilst the indictors are used to track the progress of the objective and targets in terms of monitoring of impacts. The monitoring programme will consist of an assessment of the relevant indicators and targets against the data relating to each environmental component. Similarly, monitoring will be carried out frequently to ensure that any changes to the environment can be identified.

Overall, this Climate Change Action Plan will be monitored and updated on an annual basis, with a review and revision every five years. This Climate Change Action Plan was developed through the Environment, Public Realm and Climate Change SPC of South Dublin County Council and approved by the full County Council. The Director of Environment, Water and Climate Change will report on progress to the SPC annually and the SPC will monitor progress towards the set targets. Every five years there will be a full review and revision of the plan taking into account demographic, technical and other changes that have occurred and any new targets that have been introduced.

Consequently, it is recommended that this SEA monitoring regime be undertaken in line with the development plan review process; as the data will be captured through the CCAP monitoring regime, the strategic environmental monitoring can both use these data and also be derived from the planning and landuse data by SDCC

In turn the list below is subject to review at each reporting stage to reflect new data. Should the monitoring regime identify significant impacts (such as impacts on designated sites) early on in the plan implementation, this should trigger a review of the CCAP and monitoring regime. In addition, the identification of positive impacts from monitoring should also be reported as this will assist in determining successful environmental actions.

South Dublin County Council are responsible for the implementation of the SEA Monitoring Programme including

- Monitoring specific indicators and identifying any significant effects, including cumulative effects;
- Reviewing the effectiveness of monitoring/mitigation measures during the lifetime of the CCAP; and
- Identifying any cumulative effects.

It is recommended that the monitoring report be made available to the public upon its completion. Table 12 below presents the SEA Monitoring Table. This table sets out the strategic environmental objectives, indicators and targets to be applied in monitoring the significant environmental effects of the implementation of the CCAP, in accordance with Section 13J(2) of the Planning and Development (SEA) Regulations 2004, as amended. It is proposed that the SEA monitoring reporting should go parallel with the reviewing of the CCAP to the CDP and when the next plan is being prepared.

Table 6 Monitoring Measures

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
Biodiversity Flora and Fauna	To avoid loss of habitats, geological features, species or their sustaining resources in designated ecological sites	Percentage of relevant habitats lost as a result of implementation of the CCAP	No losses of relevant habitats, species or their sustaining resources in designated ecological sites as a result of implementation of the CCAP	Designated ecological sites mapping, CORINE Mapping, National Parks and Wildlife Service Records & Development Management Process in SDCC. Designated ecological sites mapping, Development Management Process in SDCC Council & Consultation with the National Parks and Wildlife Service Primary ecological corridors mapping, CORINE mapping and Development
	To avoid significant adverse impacts, including direct, cumulative and indirect impacts, to habitats, geological features, species or their sustaining resources in designated ecological sites by development within or adjacent to these sites.	Number of significant adverse impacts, including direct, cumulative and indirect impacts, to relevant habitats, geological features, species or their sustaining resources in designated ecological sites by development within or adjacent to these sites as a result of implementation of the CCAP	No significant adverse impacts, including direct, cumulative and indirect impacts, to relevant habitats, geological features, species or their sustaining resources in designated	Management Process in SDCC.

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
			ecological sites by development within or adjacent to these sites as a result of implementation of the CCAP	
	To sustain, enhance or - where relevant - prevent the loss of ecological networks or parts thereof which provide significant connectivity between areas of local biodiversity.	Area of Biodiversity Network (County's primary ecological corridors which has been lost without mitigation)	No ecological connectivity provided by the area's primary ecological corridors to be lost without mitigation as a	
		Percentage loss of functional connectivity without remediation resulting from	result of implementation of the CCAP.	
		development provided for in the CCAP	No significant ecological networks or parts thereof which provide functional connectivity to	

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
			remediation resulting from development provided for in the CCAP	
Population and human health Noise	To protect human health from hazards or nuisances arising from traffic and incompatible landuses in particular noise and light pollution.	Number of occasions that PM ¹⁰ limits have been exceeded in at Air Monitoring stations closest to CCAP lands. Number of complaints from the CCAP re; noise, light and air quality.	Reduce number of people exposed to traffic noise and air quality levels which endanger health and quality of life.	South Dublin County Council, EPA
Air Quality and Noise	To minimise air, noise and light pollution where possible.	Number of air, noise and light pollution measures including in each phase (may be in conjunction with green infrastructure measures)	Air, noise and light pollution measures designed into CCAP	South Dublin County Council
Water	To maintain and improve, where possible, the quality of rivers, lakes and surface water.	Biotic Quality Rating (Q Value) and risk assessment.	To maintain a biotic quality rating of Q4, in line with the requirement to achieve good water status under the Water	Environmental Protection Agency.

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
			Framework Directive, by 2027.	Environmental Protection Agency As noted under Section 2.3.1, data may not
			To improve biotic quality ratings, where possible, to Q5.	be available for this indicator when the monitoring evaluation is being prepared.
	To prevent pollution and contamination of ground water.	Groundwater Quality Standards and Threshold Values under Directive 2006/118/EC.	Compliance with Groundwater Quality Standards and Threshold Values under Directive 2006/118/EC.	SDCC Irish Water EPA
	To prevent development on lands which pose - or are likely to pose in the future – a significant flood risk	Implementation and monitoring of Strategic Flood Risk Assessment for CCAP	No significant flood events associated with development activities on CCAP.	Development Management Process in South Dublin County Council
Soil and Geology	To conserve soil resources where possible.	Area of greenfield land developed.	S1ii: To reduce the amount of Greenfield lands	Development Management Process in SDCC As above Environmental Services Dept. SDCC
		Number of contaminated sites identified and	developed subject to CCAP	Annual Waste Arisings Report from Environmental Services Dept. SDCC

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
		remediated. Volume of waste recycled and volume of waste sent to landfill.	Objectives To meet national and EU targets on the recycling of municipal waste and its diversion from landfill	
Material Assets	To maintain and improve the quality of drinking water supplies.	Drinking water quality standards, (Microbiological, Chemical and Indicator parameters)	To maintain and improve drinking water quality in South Dublin County to comply with requirements of the European Communities (Drinking Water) Regulations 2000	SDCC Irish Water EPA
	To serve new development under the CCAP with appropriate waste water treatment	Phasing Programme of CCAP	All new developments to require appropriate waste water systems.	SDCC Irish Water EPA
	To reduce car dependency	Extent of developments	An increase in	SDCC

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
	within the CCAP by way of, inter alia, encouraging modal change from car to more sustainable forms of public transport and encouraging development which will not be dependent on private transport.	built within the CCAP lands of high quality public transport accessibility. Percentage of population within the CCAP lands travelling to work or school by public transport or non-mechanical means	the percentage of the population within the County travelling to work or school by public transport or non-mechanical means. A decrease in the average distance travelled to work or school by the population of the County.	CSO Census
	To minimise waste production and reduce the volume of waste to landfill and to operate sustainable waste management practices	Volume of waste recycled and volume of waste sent to landfill	To meet national and EU targets on the recycling of municipal waste and its diversion from landfill	Development Management Process in SDCC As above Environmental Services Dept. SDCC Annual Waste Arisings Report from Environmental Services Dept. SDCC
Cultural	To protect the archaeological	Percentage of entries to	Protect entries	SDCC Development Control

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
Heritage	heritage of South Dublin with regard to entries to the Record of Monuments and Places - including Zones of Archaeological Potential - and the context of the above within the surrounding landscape where relevant.	the Record of Monuments and Places - including Zones of Archaeological Potential (and the context of the above within the surrounding landscape where relevant) - protected Number of archaeological surveys required as part of planning applications	to the Record of Monuments and Places - including Zones of Archaeological Potential (and their context of the above within the surrounding landscape where relevant)	
		Conditions attached to permissions on archaeological monitoring during excavations.	Protect unknown archaeological resources within CCAP area.	
	To preserve and protect the special interest and character of the CCAP lands architectural heritage with regard to entries to the Record of Protected Structures, the Architectural Conservation Area and their	Percentage of entries to the Record of Protected Structures (and/or their context within the surrounding landscape where relevant) protected.	Protect entries to the Record of Protected Structures (and/or their context within the surrounding landscape	SDCC

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
	context within the surrounding landscape where relevant.	Number of architectural condition surveys attached to planning	where relevant)	
		applications.	reuse architectural heritage structures and features	
Landscape	To protect and avoid significant adverse impacts on the landscape, landscape features and designated scenic routes; especially with regard to areas of high amenity.	The creation of a sense of place and coherence/ appreciation for the overall setting and context of the CCAP.	Creation of sense of place with all phases of development associated with CCAP	SDCC
		Number of development applications with landscape and habitat plans and Design Statements.		
		Amount of land allocated to temporary greening measures.		
Climate Change and	To integrate climate change adaptation to the CCAP	Number of SUDs measures included and developed as	Integrated blue and green	SDCC

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
energy	process	part of CCAP Number/extent of	infrastructure through the CCAP	
		additional tree planting as part of applications.		
	Interrelationships Maintain and improve the health of people, ecosystems and natural processes Actively seek to integrate opportunities for environmental enhancement during adaptation to climate change	Blue and Green Infrastructure measures implemented over lifetime of plan Number of Blue infrastructure features included in development.	Integration of blue and green infrastructure measures including in approved planning applications within South Dublin including SUDS, Integrated Wetlands, Hedgerows, Native tree	SDCC
			planting scheme	







NATURA IMPACT REPORT

SOUTH DUBLIN COUNTY COUNCIL

DRAFT CLIMATE CHANGE ACTION PLAN

2019-2024



Natura Impact Report

South Dublin County Council

Climate Change Action Plan

2019 - 2024

South Dublin County Council

Climate Change Action Plan 2019 - 2024

Natura Impact Report

Document Stage	Document Version	Prepared by
Draft 29/01/2019	1	Pat Doherty MSc, MCIEEM

This report has been prepared by DEC Ltd with all reasonable skill, care and diligence. Information report herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is prepared for South Dublin County Council and we accept no responsibility to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

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1.0 INTRODUCTION

DEC Ltd have been appointed by South Dublin County Council to undertake a Natura Impact Report (NIR) of their proposed Climate Change Action Plan (CCAP) 2019 - 2024. This NIR has been completed with respect to the requirements outlined in Article 6(3) of the EU Habitats Directive and Section 177U of the Planning and Development Act and has been prepared in order to facilitate South Dublin County Council's requirement for completing an Appropriate Assessment of the Plan.

The proposed CCAP is not directly connected with or necessary for the management of any European Site and hence the requirements of Article 6(3) of the Habitats Directive and Part XAB of the Planning and Development Act 2000, apply. Section 177U(1) of the Planning and Development Act 2000 requires that a screening for appropriate assessment of, inter alia, a land use plan be carried out by a competent authority to assess, in light of best scientific knowledge, whether the proposed Plan, individually or in combination with another plan or project is likely to have a significant effect on a European site. A Statement in support of Screening for Appropriate Assessment has been completed and assessed the potential for the CCAP to result in likely significant effects to European Sites. A summary of the screening is provided in the following sub-section.

1.1 PROFESSIONAL COMPETENCIES OF LEAD AUTHOR

Pat Doherty MCIEEM was the lead author of this Natura Impact Report. Pat has 19 years professional practice as an ecologist. He contributes to Biodiversity, Flora and Fauna elements of SEA and has authored a wide range of Screening Statements in Support of Appropriate Assessments, and Natura Impact Statements/Reports. These include county and local area plans, recreational and tourism strategies, greenways, planning schemes and wind and renewable energy strategies. Pat's qualifications include MSc in Applied Environmental Science (Ecology), University College Dublin, 2003;BSc (Honours) in Environmental Earth Science, University of Wales, Aberystwyth, 2000; ongoing CDP including Habitat Assessment (NVC) and flora and fauna identification through the Institute of Ecology and Environmental Management (IEEM).

2.0 SUMMARY OF THE SCREENING FOR APPROPRIATE ASSESSMENT

A Statement in support of Screening for Appropriate Assessment has been completed for the

proposed CCAP. This Screening Statement is provided as Appendix 1 to this NIR. This

Screening was completed in line with the requirements of Article 6(3) of the EU Habitats

Directive, as transposed into Irish law in Part XAB of the Planning and Development Act

2000 (as amended) in relation to land use planning.

The Screening represents the first stage of the Article 6(3) Habitats Directive assessment

process and was undertaken to identify whether the plan has the potential to result in likely

significant effects to European Sites. The first step of the Screening was to assess all actions

proposed by the CCAP for their potential to result in likely significant effects to European

Sites. A total of 4 actions were identified as having the potential to result in likely significant

effects to European Sites. These actions are listed in full in Table 6.1 of this NIR.

The next step was to identify all European Sites occurring within and surrounding the

footprint of South Dublin County Council's administrative area. All lands occurring within

the South Dublin County Council's administrative area represent the Plan area and all

European Sites occurring within this area and within a 15km buffer distance of the Plan area

were screened for likely significant effects (the extent of the Plan area and the location of

these sites with respect to the Plan area are shown on Figure 1.1 to Figure 1.3). No European

Sites at a distance greater than 15km were considered during the screening as no source-

pathway-receptor relationship occurs between lands subject to the Plan and European Sites at

such distance from the Plan area. The European Sites occurring within 15km of the Plan area

represented a preliminary list of European Sites to be screened for likely significant effects. A

total of 25 European Sites were identified in this preliminary list. The next step in the

screening was to identify which European Sites occur within the zone of influence of the plan

and could be at risk of likely significant effects by the 4 actions listed in Table 6.1. A total of

6 European Sites, which are as follows:

Glenasmole Valley SAC;

Wicklow Mountains SAC;

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Wicklow Mountains SPA;

South Dublin Bay River Tolka Estuary SPA;

North Dublin Bay SAC; and

North Bull Island SPA.

were identified as occurring within the zone of influence of the Plan and were potentially at risk of likely significant effects due the potential for negative land use effects to result from some or all of the 6 actions listed in Table 6.1 of this report.

Accordingly, this NIR has been prepared to inform the Appropriate Assessment of the Plan's potential to result in likely significant effects to these 6 European Sites and their qualifying features of interest occurring within the zone of influence of the plan.

The remainder of this NIR is structured as follows:

Section 3: Assessment Method

Section 4: Overview of the Plan

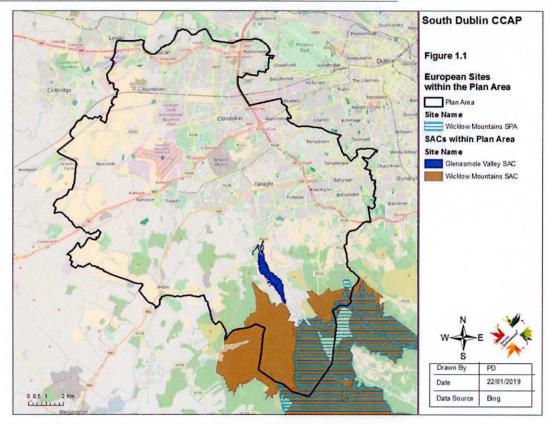
Section 5: Assessment of the Plan

Section 6: Conservation Objectives

Section 7: Mitigation

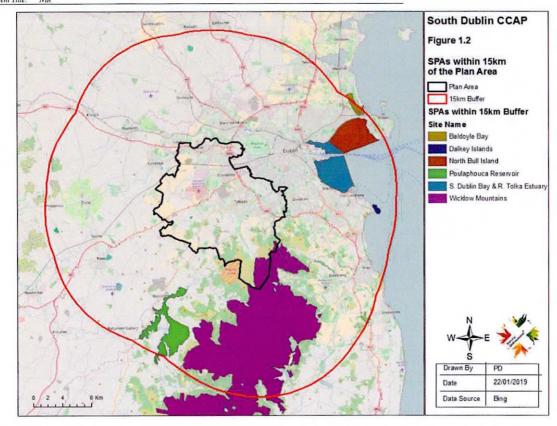
Section 8: Conclusions

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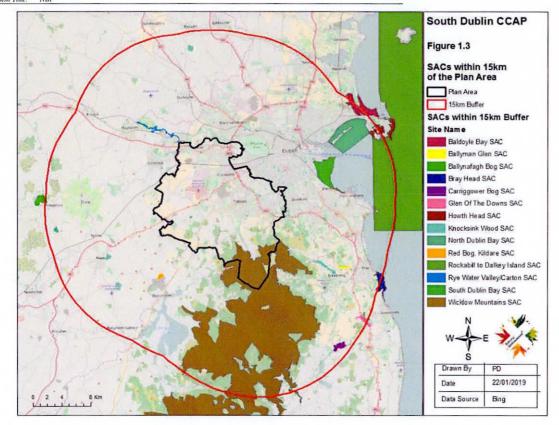
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3.0 ASSESSMENT METHODOLOGY

3.1 GUIDANCE

This NIR has been undertaken in accordance with National and European guidance documents: Appropriate Assessment of Plans and Projects in Ireland: Guidance for Planning Authorities (DEHLG 2010) and Assessment of Plans and Projects Significantly Affecting Natura 2000 sites – Methodological Guidance of the Provisions of Article 6(3) and (4) of the Habitats directive 92/43/EEC. The following guidance documents were also of relevance during this the preparation of this NIR:

- A guide for competent authorities. Environment and Heritage Service, Sept 2002.
 Appropriate Assessment of Plans and Projects in Ireland Guidance for Planning Authorities (2010). DEHLG.
- Assessment of Plans and Projects Significantly Affecting Natura 2000 Sites Methodological Guidance of the Provisions of Article 6(3) and (4) of the Habitats Directive 92/42/EED. European Commission (2001).
- Managing Natura 2000 Sites The provisions of Article 6 of the Habitats directive 92/43/EEC. European commission (2018).
- Communication from the Commission on the precautionary principle. European Commission (2000).

3.2 BACKGROUND TO HABITATS DIRECTIVE ARTICLE 6 ASSESSMENTS

The EC (2001) guidelines outline the stages involved in undertaking an assessment of a project under Article 6(3) and 6(4) of the Habitats Directive. The assessment process comprises the four stages outlined below. Stage 1 to 3 form part of the Article 6(3) process, while Stage 4 forms part of the Article 6(4) process. This NIR presents the findings of an assessment for Stage 2 of this assessment process.

 Stage 1 – Screening: This stage defines the proposed plan, establishes whether the proposed plan is necessary for the conservation management of the Natura 2000 site

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and assesses the likelihood of the plan to have a significant effect, alone or in

combination with other plans or projects, upon a Natura 2000 site.

- Stage 2 Appropriate Assessment: If a plan or project is likely to have a significant
 affect an Appropriate Assessment must be undertaken. In this stage the impact of the
 plan or project to the Conservation Objectives of the Natura 2000 site is assessed. The
 outcome of this assessment will establish whether the plan will have an adverse effect
 upon the integrity of the Natura 2000 site.
- Stage 3 Assessment of Alternative Solutions: If it is concluded that, subsequent to
 the implementation of mitigation measures, a plan has an adverse impact upon the
 integrity of a Natura 2000 site it must be objectively concluded that no alternative
 solutions exist before the plan can proceed.
- Stage 4 Where no alternative solutions exist and where adverse impacts remain but imperative reasons of overriding public interest (IROPI) exist for the implementation of a plan or project an assessment of compensatory measures that will effectively offset the damage to the Natura site 2000 will be necessary.

3.3 STAGE 2: APPROPRIATE ASSESSMENT STEPS

The EC Guidance Assessment Criteria for Appropriate Assessment seeks the following information:

- A description of the elements of the project that are likely to give rise to significant effects to European Sites;
- 2. The Setting out the Conservation Objectives of the Site;
- 3. A description of how the project will affect key species and key habitats;
- 4. A description of how the integrity of the site (determined by structure and function and conservation objectives) is likely to be affected by the project (e.g. loss of habitat, disturbance, disruption, chemical changes, hydrological changes etc.);
- 5. A description of the mitigation measures that are to be introduced to avoid, reduce or remedy the adverse effects on the integrity of European Sites.

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3.4 INFLUENCE OF THE APPROPRIATE ASSESSMENT PROCESS ON THE PLAN

The purpose of the Appropriate Assessment of the Plan is not only to assess the implications of this Plan on European Sites and their qualifying features of interest occurring within its zone of influence, but also to provide safeguards that aim to minimise the ecological implications of the Plan and avoid likely significant effects to European Sites. This was completed by identifying any elements of the Plan and the current South Dublin CDP that aim to protect the natural environment.

For the first time, Dublin's four local authorities have joined together to develop Climate Change Action Plans as a collaborative response to the impact that climate change is having, and will continue to have, on the Dublin Region and its citizens. While each plan is unique to its functional area, they are unified in their approach to climate change adaptation and mitigation, and their commitment to lead by example in tackling this global issue.

This CCAP has been prepared in line with climate change policies and objectives of the CDP and follows on from the publication of A Strategy for Climate Change Action Plans for the Dublin Local Authorities (DLAs), which was published in January 2017. The strategy used a structured approach that focused on seven key areas (Citizen Engagement, Planning, Energy, Transport, Water, Waste, and Ecosystems & Biodiversity), and set out how the DLAs would develop the four climate change action plans. The action plans will be unique to each local authority area but synchronised in their methodology.

This Plan concentrates on the two approaches required to tackle climate change. The first, mitigation, consists of actions that will reduce current and future GHG emissions; examples of these include reductions in energy use, switching to renewable energy sources and carbon sinks. The second approach, adaptation, consists of actions that will reduce the impacts that are already happening now from our changing climate and those that are projected to happen in the future.

The actions in this draft CCAP for South Dublin County Council will be continually monitored and updated by a dedicated climate action team working across all Council departments. They will be assisted by the newly established Dublin Metropolitan Climate Action Regional Office, which will ensure that the overall plan is fully updated every five years to reflect latest policy, technology and climate-related impacts. The new office will work with Codema, as technical support and research partner, to ensure that the plans continue to be informed by national and international best practice.

The actions in the CCAP are presented around a number of themes as follows:

Energy and Buildings

- Transport
- Flood Resilience
- Nature Based Solutions
- Resource Management.

Collectively, these collectively address the four targets of this plan, which are:

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

As such, this CCAP encompasses the functional area of South Dublin County Council. This area is referred to throughout this report as the "Plan area". The administrative area of the County Council for which the Plan has been prepared comprises 222.7 km².

4.1 EUROPEAN SITES OCCURRING WITHIN THE ZONE OF INFLUENCE OF THE VARIATON

The following sub-sections provide an overview of the five European Sites occurring within the zone of influence of the Plan. The threats and pressures reported for the individual European Sites listed in the following sub-sections are sourced from the Natura 2000 Data Forms or where available from Site Specific Conservation Objectives (SSCOs) supporting information. Where available the conservation status of features of interest at the site level has been sourced from SSCOs. The conservation status of qualifying habitats and qualifying species at the national level has been sourced from the Habitat Directive Article 17 Reports

(NPWS, 2013a & 2013b) or from other sources as referenced below. The conservation status of bird species at the national level has been sourced from Colhoun & Cummins (2013).

4.1.1 Glenasmole Valley SAC

The qualifying features of interest for which this site has been designated as an SAC are listed in Table 4.1 below. The threats and pressures to this SAC have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SPA are as follows:

- human induced changes in hydraulic conditions
- fertilisation
- forest clearance
- grazing
- diffuse groundwater pollution
- diffuse surface water pollution
- roads, paths and railways
- urbanisation
- abandonment and lack of mowing
- camping and caravans

Table 4.1: Glenasmole SAC Qualifying Features of Interest & Conservation Status

Qualifying Annex Feature	Conservation Level)	Status	(Site-	Conservation (National-Level)	Status
Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)	Not Reported			Bad	

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Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	Not Reported	Unfavourable
Petrifying springs with tufa formation (Cratoneurion)	Not Reported	Unfavourable-Inadequate ¹

4.1.2 Wicklow Mountains SAC

Qualifying features for which this site has been designated as a SAC are listed in Table 4.2 below. The distribution of the habitats associated with this SAC are outlined in the Conservation Objectives for this SAC (see NPWS, 2013).

The threats and pressures to this SAC have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SAC are as follows:

- · Off-road motorized driving
- Disposal of household / recreational facility waste
- Damage by herbivores (including game species)
- · Grazing in forests/ woodland
- · Mountaineering, rock climbing, speleology
- Missing or wrongly directed conservation measures
- · Walking, horseriding and non-motorised vehicles
- Invasive non-native species
- Erosion

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¹ Lyons, M.D. & Kelly, D.L. (2016) Monitoring guidelines for the assessment of petrifying springs in Ireland. Irish Wildlife Manuals, No. 94. National Parks and Wildlife Service, Department of Arts, Heritage, Regional, Rural and Gaeltacht Affairs, Ireland.

- Grazing
- Wildlife watching
- · Trampling, overuse,
- · Stock feeding
- · Urbanised areas, human habitation
- Hunting and collection of wild animals (terrestrial)
- · Collapse of terrain, landslide
- Collection (fungi, lichen, berries etc.)
- Vandalism
- · Outdoor sports and leisure activities, recreational activities
- · Tree surgery, felling for public safety, removal of roadside trees
- Military manoeuvres
- · Burning down
- · Paths, tracks, cycling tracks
- Peat extraction
- Taking from nest (falcons)

Table 4.2: Wicklow Mountains SAC Qualifying Features of Interest & Conservation Status

Qualifying Annex Feature	Conservation Status (Site- Level)	Conservation Status (National-Level)
Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae)	Not Reported	Bad
Natural dystrophic lakes and	Not Reported	unfavourable inadequate

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ponds		
Northern Atlantic wet heaths with Erica tetralix	Not Reported	Bad
European dry heaths	Not Reported	Bad
Alpine and Boreal heaths	Not Reported	Bad
Calaminarian grasslands of the Violetalia calaminariae	Not Reported	unfavourable inadequate
Species-rich Nardus grasslands, on siliceous substrates in mountain areas (and submountain areas, in Continental Europe)	Not Reported	Bad
Blanket bogs (* if active bog)	Not Reported	Bad
Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani)	Not Reported	Inadequate
Calcareous rocky slopes with chasmophytic vegetation	Not Reported	Inadequate
Siliceous rocky slopes with chasmophytic vegetation	Not Reported	Inadequate
Old sessile oak woods with Ilex and Blechnum in the British Isles	Not Reported	Bad
Lutra lutra (Otter)	Not Reported	Good

Wicklow Mountains SPA

Special conservation interests for which this site has been designated as a SPA are listed in Table 4.3 below. The distribution of the habitats associated with this SPA are outlined in the Conservation Objectives for this SAC (see NPWS, 2013).

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The threats and pressures to this SPA have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SPA are as follows:

- Paths, track and cycle ways
- Improved access to site
- Grazing
- Disposal of household and industrial waste
- Tree surgery
- Camping and caravanning
- Wrongly directed conservation measures
- Discharges

Table 4.3: Wicklow Mountains SPA Special Conservation Interests & Conservation Status

Qualifying Annex Feature	Conservation Status (Si Level)	ce- Conservation Status (National-Level)
Merlin (Falco columbarius)	Not Reported	Amber listed species- Species of medium conservation concern
Peregrine (Falco peregrinus)	Not Reported	Green listed species- Species of low conservation concern

4.1.3 South Dublin Bay River Tolka Estuary SPA

The South Dublin Bay and River Tolka Estuary SPA comprises a substantial part of Dublin Bay. It includes the intertidal area between the River Liffey and Dun Laoghaire, and the estuary of the River Tolka to the north of the River Liffey, as well as Booterstown Marsh. A portion of the shallow marine waters of the bay is also included.

The qualifying features for which this site has been designated as a SPA are listed in Table 4.4 below. The threats and pressures to this SAC have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SPA are as follows:

- · Walking, horseriding and non-motorised vehicles
- · Reclamation of land from sea, estuary or marsh
- Discharges
- Roads, motorways
- · Industrial or commercial areas

Table 4.4: South Dublin Bay River Tolka Estuary SPA Special Conservation Interests & Conservation Status

SCIs	Conservation Status
Light-bellied Brent Goose (Branta bernicla hrota)	Amber listed species- Species of medium conservation concern
Oystercatcher (Haematopus ostralegus)	Amber listed species- Species of medium conservation concern
Ringed Plover (Charadrius hiaticula)	Amber listed species- Species of medium conservation concern
Grey Plover (Pluvialis squatarola)	Amber listed species- Species of medium conservation concern
Knot (Calidris canutus)	Red listed species – Species of high conservation concern [†]
Sanderling (Calidris alba)	Green listed species – Species not threatened
Dunlin (Calidris alpina)	Amber listed species- Species of medium conservation concern
Bar-tailed Godwit (Limosa lapponica)	Amber listed species- Species of medium conservation concern
Redshank (Tringa totanus)	Red listed species – Species of high conservation concern
Black-headed Gull (Croicocephalus ridibundus)	Red listed species – Species of high conservation concern
Roseate Tern (Sterna dougallii)	Green listed species – Species not threatened
Common Tern (Sterna hirundo)	Amber listed species- Species of medium conservation concern

Arctic Tern (Sterna paradisaea)	Amber listed species- Species of medium conservation concern
Wetlands & Waterbirds	

4.1.4 North Dublin Bay

This site covers the inner part of north Dublin Bay, the seaward boundary extending from the Bull Wall lighthouse across to the Martello Tower at Howth Head. The North Bull Island is the focal point of this site. Qualifying features for which this site has been designated as a SAC are listed in Table 4.5 below. The distribution of the habitats associated with this SAC are outlined in the Conservation Objectives for this SAC (see NPWS, 2013).

The threats and pressures to this SAC have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SAC are as follows:

- · Urbanised areas, human habitation
- · Walking, horseriding and non-motorised vehicles
- Golf course
- Industrial or commercial areas
- Discharges

Table 4.5: North Dublin Bay SAC Qualifying Features of Interest & Conservation Status

Qualifying Annex Feature	Conservation Status (Site- Level)	Conservation Status (National-Level)
Mudflats and sandflats not covered by seawater at low tide	Favourable	Poor
Annual vegetation of drift lines	Not established	Poor
Salicornia and other annuals colonizing mud and sand	Unfavourable	Poor

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Atlantic salt meadows (Glauco- Puccinellietalia maritimae)	Favourable	Poor
Petalwort (Petalophyllum ralfsii)	Not established	Good
Mediterranean salt meadows (Juncetalia maritimi)	Favourable	Poor
Embryonic shifting dunes Shifting dunes along the shoreline with Ammophila arenaria (white dunes)	Unfavourable-inadeqaute	Poor
Fixed coastal dunes with herbaceous vegetation (grey dunes)	Unfavourable-Bad	Bad
Humid dune slacks	Unfavourable-inadeqaute	Bad

4.1.5 North Bull Island SPA

This site covers all of the inner part of north Dublin Bay, with the seaward boundary extending from the Bull Wall lighthouse across to Drumleck Point at Howth Head. The site is a Special Protection Area (SPA) under the E.U. Birds Directive, of special conservation interest for the following species: Light-bellied Brent Goose, Shelduck, Teal, Pintail, Shoveler, Oystercatcher, Ringed Plover, Golden Plover, Grey Plover, Knot, Sanderling, Dunlin, Black-tailed Godwit, Bar-tailed Godwit, Curlew, Redshank, Turnstone and Black-headed Gull. The site is also of special conservation interest for holding an assemblage of over 20,000 wintering waterbirds. The E.U. Birds Directive pays particular attention to wetlands and, as these form part of this SPA, the site and its associated waterbirds are of special conservation interest for Wetland & Waterbirds.

The special conservation interests for which this site has been designated as a SPA are listed in Table 4.6 below. The threats and pressures to this SAC have been documented in the Standard Natura 2000 Data Form for the site (NPWS, 2017). The documented threats and pressures to this SPA are as follows:

- Disposal of household / recreational facility waste
- Golf Course

- · Industrial or commercial areas
- · Walking, horseriding and non-motorised vehicles
- · Bridge, viaduct
- · Roads, motorways
- Discharges

Table 4.6: North Bull Island SPA Special Conservation Interests & Conservation Status

SCIs	Conservation Status
Light-bellied Brent Goose (Branta bernicla hrota)	Amber listed species- Species of medium conservation concern
Shelduck (Tadorna tadorna)	Amber listed species- Species of medium conservation concern
Teal (Anas crecca)	Amber listed species- Species of medium conservation concern
Pintail (Anas acuta)	Red listed species – Species of high conservation concern [†]
Shoveler (Anas clypeata)	Red listed species – Species of high conservation concern [†]
Oystercatcher (Haematopus ostralegus)	Amber listed species- Species of medium conservation concern
Golden Plover (Pluvialis apricaria)	Red listed species – Species of high conservation concern
Grey Plover (Pluvialis squatarola)	Amber listed species- Species of medium conservation concern

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not (Calidris canutus) Red listed species – Species of high conservation concern [†]	
Sanderling (Calidris alba)	Green listed species – Species not threatened
Dunlin (Calidris alpina)	Amber listed species- Species of medium conservation concern
Black-tailed Godwit (Limosa limosa)	Amber listed species- Species of medium conservation concern
Bar-tailed Godwit (Limosa lapponica)	Amber listed species- Species of medium conservation concern
Curlew (Numenius arquata)	Red listed species – Species of high conservation concern
Redshank (Tringa totanus)	Red listed species – Species of high conservation concern
Turnstone (Arenaria interpres)	Green listed species – Species not threatened
Black-headed Gull (Larus ridibundus)	Red listed species – Species of high conservation concern
Wetlands & Waterbirds	

5.0 CONSERVATION OBJECTIVES

The function of this NIR in support of Appropriate Assessment is to determine whether the Plan could have significant effects on the European Sites occurring within its zone of influence, in view of the Conservation Objectives for the qualifying features of

interest/special conservation interests of these European Sites that also occur within the zone of influence of the project. Generic Conservation Objectives have been published for all European Sites occurring in Ireland. The generic Conservation Objectives for SAC and their qualifying habitats and qualifying species are:

- To maintain the Annex I habitats for which the SAC has been selected at favourable conservation status:
- To maintain the Annex II species for which the SAC has been selected at favourable conservation status;
- To maintain the extent, species richness and biodiversity of the entire site; and
- To establish effective liaison and co-operation with landowners, legal users and relevant authorities.

The generic Conservation Objectives for SPAs and their special conservation interests are:

To maintain the bird species of special conservation interest, for which the SPA has been designated, at favourable conservation status.

Favourable Conservation status of a habitat is achieved when:

- Its natural range, and area it covers within that range, are stable or increasing;
- The specific structure and functions which are necessary for its long term maintenance exist and are likely to continue to exist for the foreseeable future; and

The conservation status of its typical species is "favourable". Favourable Conservation status of a species is achieved when:

- Population dynamics data on the species concerned indicate that it is maintaining itself on a long term basis as a viable component of its natural habitats;
- The natural range of the species is neither being reduced nor is likely to be reduced for the foreseeable future; and
- There is, and will probably continue to be, a sufficiently large habitat to maintain its populations on a long term basis.

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In addition to the published generic Conservation Objectives for all European Sites, Site Specific Conservation Objectives (SSCOs) have been published for a number of individual European Sites. These SSCOs identify the attributes that underpin the conservation status of qualifying features of interest/special conservation interests and provide targets for ensuring that their favourable status is maintained and/or restored. SSCO's have been published for the five European Sites occurring within the zone of influence of the CCAP and are available from the NPWS at the following website: https://www.npws.ie/protected-sites/conservation-management-planning/conservation-objectives.

6.0 ASSESSMENT OF THE PLAN

As outlined in Section 3.3 above, the recommended steps for an Appropriate Assessment are as follows:

- 1. A description of the elements of the project that are likely to give rise to significant effects to European Sites;
- 2. The Setting out the Conservation Objectives of the Site;
- 3. A description of how the project will affect key species and key habitats;
- 4. A description of how the integrity of the site (determined by structure and function and conservation objectives) is likely to be affected by the project (e.g. loss of habitat, disturbance, disruption, chemical changes, hydrological changes etc.);
- A description of the mitigation measures that are to be introduced to avoid, reduce or remedy the adverse effects on the integrity of European Sites.

6.1 ELEMENTS OF THE PLAN THAT HAVE THE POTENTIAL TO RESULT IN SIGNIFICANT EFFECTS

The elements of the Plan that have the potential to give rise to likely significant effects to the 6 European Sites occurring within the zone of influence of the Plan are the 4 Actions identified during the Screening stage. These Actions are listed in Table 6.1 below.

Table 6.1: Land Use Actions Identified as having the Potential to Result in Likely Significant Effects to European Sites

Action Theme	Action Theme No.	Action
Transport Actions	4	Build out county cycle network
Transport Actions	7	Development of cycle/pedestrian greenways

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Flood Defence	20	Minor flood schemes and general maintenance
Flood Resilience	17	Whitechurch Flood Alleviation Scheme

The potential ecological effects of such activities relate to:

- Habitat loss and fragmentation: the direct loss of habitat occurring within European
 Sites as a result of land use activities facilitated by the Plan.
- Habitat degradation resulting from emissions to surface water: the construction phase
 of projects resulting from the land use actions identified in Table 6.1 above could
 result in the discharge of contaminated surface water to receiving watercourses.
- Habitat degradation resulting from emissions to groundwater: as above, the
 development of projects can result in the discharge of polluted waters to
 groundwaters during the construction phase and operation phase of project.
- Habitat degradation resulting from emissions to air: the construction phase and operation phase of project can result in the emission of pollutants, such as dust, particulate matter, SOx and NOx to the atmosphere.
- Habitat degradation resulting from the spread of non-native invasive species during works facilitated by the land use actions listed in Table 6.1: If present on site development projects can result in the spread of these species; and
- Disturbance and/or displacement of qualifying species/special conservation interest bird species from within or outside European Sites: where project works facilitated bt the actions listed in Table 6.1 above are located in close proximity to habitats upon which qualifying species/special conservation interest bird species of European Sites rely, then they could result in disturbance to these species and where disturbance stimuli persist they could result in displacement of these species from habitats.

Table 6.2 below lists the qualifying feature of interest/special conservation interests of the five European Sites occurring within the zone of influence of the Plan and assesses whether each of these features are risk from the ecological effects listed above.

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Table 6.2: Potential for Ecological Effects to result in adverse effects to the Qualifying Features/special conservation interests of European Sites

European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
Glenasmole Valley SAC						
Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites)	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use and any flood scheme works along the River Dodder represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with these actions and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area or the provision of flood scheme works.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network or the provision of flood scheme works are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use or the provision of flood scheme works within or adjacent to this habitat to result in the spread of non-native invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.

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European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
	negative effects to its conservation status.					
Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae)	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use and any flood scheme works along the River Dodder represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with these actions and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area or the provision of flood scheme works.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network or the provision of flood scheme works are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use or the provision of flood scheme works within or adjacent to this habitat to result in the spread of non-native invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.

European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
Petrifying springs with tufa formation (Cratoneurion)	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works and operations associated with these actions within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status.	Yes. Rationale: Any works associated with the expansion of the walking and cycling network and their subsequent use and road maintenance works adjacent to or upstream of this qualifying habitat could result in pertubations to surface water quality with negative consequences for the conservation status of this habitat.	Yes. Rationale: Any works associated with the expansion of the walking and cycling network and their subsequent use and flood scheme works adjacent to or upstream of this qualifying habitat could result in pertubations to ground water quality with negative consequences for the conservation status of this habitat.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network and flood scheme works are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use and flood scheme works adjacent to or upstream of this habitat to result in the spread of nonnative invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works adjacent to or upstream of eamples of this habitat within the SAC could result in disturbance to this habitat.
South Dublin Bay & Tolka Estuary SPA						
Wintering Waterbirds	No. Rationale: This wetland habitat of this SPA are located at remote distance from the Plan area and there will be no potential for works	Yes. Rationale. Watercourses flowing through the Plan area discharge to this SPA. Perturbations to these watercourses from any	Yes. Rationale. Perturbations to groundwaters from any works associated with the expansion of	No. Rationale: The land use activities associated with the expansion of walking and cycling trails and	Yes. Rationale: There is potential for construction works associated with the expansion of walking and cycling	No. Rationale: The habitats upon which wintering waterbirds rely for foraging and roosting are located at remote distance from the Plan area and there will be no potential for works

European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
	associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative downstream effects to the status of wetland habitats that support wintering waterbirds.	walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative effects to the status of wetland habitats that support wintering waterbirds	their subsequent use and flood scheme works are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to foraging or roosting wintering waterbirds.	trails and their subsequent use and flood scheme works to result in the spread of non- native invasive species that could undermine the status of wetland habitats upon which wintering waterbirds rely.	associated with the Actions listed in Table 6.1 above to result in disturbance or displacement of these bird species.
Breeding Terns	No. Rationale: The habitats upon which breeding terns rely for nesting and foraging are located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of these	Yes. Rationale. Watercourses flowing through the Plan area discharge to this SPA. Perturbations to these watercourses from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works	Yes. Rationale. Perturbations to groundwaters from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could, in theory, result in negative	No. Rationale: The land use activities associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works are not predicted to have the potential to result in	Yes. Rationale: There is potential for construction works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works to result in the spread of nonnative invasive	No. Rationale: The habitats upon which breeding terns rely for nesting and foraging are located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in disturbance or displacement of these bird species.
	habitats.	could, in theory, result in negative downstream at coastal foraging ground for	downstream at coastal foraging ground for tern species.	emissions to atmosphere that could result in negative effects to	species that could undermine the status of tern breeding colonies.	

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European Sites & Qualifying Features	Habitat Loss & Fragmentation		Habitat Dep	gradation		Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native invasive species	
		tern species.		breeding tern colonies.		
North Dublin Bay SAC						
Mudflats and sandflats not covered by seawater at low tide [1140]	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	Yes. Rationale. Watercourses flowing through the Plan area discharge to this SAC. Perturbations to these watercourses from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative downstream effects to the status of this habitat.	Yes. Rationale. Perturbations to groundwaters from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative effects to the status of this habitat	No. Rationale: The land use activities associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works will be undertaken at remote distance from this habitat and are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to this habitat.	Yes. Rationale: Where construction works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works are undertaken in the vicinity of watercourses there will be potential for such works to result in the spread of non-native invasive species.	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in disturbance to this habitat.

European Sites & Qualifying Features	Habitat Loss & Fragmentation		Disturbance/Displacement			
		Surface Water	Groundwater	Air	Non-native invasive species	
Annual vegetation of drift lines [1210]	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by lotic or estuarine water quality. Any perturbations to watercourses draining to the South Dublin Bay SAC will not have the potential to undermine the status of this habitat.	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by groundwater water quality.	No. Rationale: The land use activities associated with the actions listed in Table 6.1 above are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the conservation status of this habitat.	No. Rationale: There are no pathways that could connect works associated with the Actions listed in Table 6.1 above to this habitat.	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in disturbance to this habitat.
Salicornia and other annuals colonising mud and sand [1310]	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	Yes. Rationale. Watercourses flowing through the Plan area discharge to this SAC. Perturbations to these watercourses from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result	Yes. Rationale. Perturbations to groundwaters from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative effects to the status	No. Rationale: The land use activities associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works will be undertaken at remote distance from this habitat	Yes. Rationale: Where construction works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works are undertaken in the vicinity of watercourses there will be potential for	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in disturbance to this habitat.

European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
		in negative downstream effects to the status of this habitat.	of this habitat	predicted to have the potential to result in emissions to atmosphere that could result in negative effects to this habitat.	in the spread of non-native invasive species.	
Atlantic salt meadows (Glauco- Puccinellictalia maritimae) [1330]	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	Yes. Rationale. Watercourses flowing through the Plan area discharge to this SAC. Perturbations to these watercourses from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative downstream effects to the status of this habitat.	Yes. Rationale. Perturbations to groundwaters from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative effects to the status of this habitat	No. Rationale: The land use activities associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works will be undertaken at remote distance from this habitat and are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to this habitat.	Yes. Rationale: Where construction works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works are undertaken in the vicinity of watercourses there will be potential for such works to result in the spread of non-native invasive species.	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in disturbance to this habitat.

European Sites & Qualifying Features	Habitat Loss & Fragmentation		Habitat De		Disturbance/Displacement	
		Surface Water	Groundwater	Air	Non-native invasive species	
Mediterranean salt meadows (Juncetalia maritimi) [1410]	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	Yes. Rationale. Watercourses flowing through the Plan area discharge to this SAC. Perturbations to these watercourses from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative downstream effects to the status of this habitat.	Yes. Rationale. Perturbations to groundwaters from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative effects to the status of this habitat	No. Rationale: The land use activities associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works will be undertaken at remote distance from this habitat and are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to this habitat.	Yes. Rationale: Where construction works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works are undertaken in the vicinity of watercourses there will be potential for such works to result in the spread of non-native invasive species.	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in disturbance to this habitat.
Embryonic shifting dunes [2110]	Yes. Rationale: Any works associated with coastal zone management, flood schemes or road maintenance within or adjacent to this SAC could have the potential	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by lotic or estuarine water quality. Any perturbations to the	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by groundwater water quality.	No. Rationale: The land use activities associated with the actions listed in Table 6.1 above are not predicted to have the potential	No. Rationale: There are no pathways that could connect works associated with the Actions listed in Table 6.1 above to this	Yes. Rationale: Any works associated with coastal zone management, flood schemes or road maintenance actions within or adjacent to this SAC could result in disturbance to this habitat.

European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
	effects to the conservation status of this habitat.	to the North Dublin Bay SAC will not have the potential to undermine the status of this habitat.		emissions to atmosphere that could result in negative effects to the conservation status of this habitat.		
Shifting dunes along the shoreline with Ammophila arenaria (white dunes) [2120]	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by lotic or estuarine water quality. Any perturbations to watercourses draining to the South Dublin Bay SAC will not have the potential to undermine the status of this habitat.	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by groundwater water quality.	No. Rationale: The land use activities associated with the actions listed in Table 6.1 above are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the conservation status of this habitat.	No. Rationale: There are no pathways that could connect works associated with the Actions listed in Table 6.1 above to this habitat.	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in disturbance to this habitat.
Fixed coastal dunes with herbaceous vegetation (grey dunes) [2130]	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by lotic or estuarine water quality. Any	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by groundwater water quality.	No. Rationale: The land use activities associated with the actions listed in Table 6.1 above are not predicted to	No. Rationale: There are no pathways that could connect works associated with the Actions listed in Table 6.1	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to

European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
	Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	perturbations to watercourses draining to the South Dublin Bay SAC will not have the potential to undermine the status of this habitat.		have the potential to result in emissions to atmosphere that could result in negative effects to the conservation status of this habitat.	above to this habitat.	result in disturbance to this habitat.
Humid dune slacks [2190]	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by lotic or estuarine water quality. Any perturbations to watercourses draining to the South Dublin Bay SAC will not have the potential to undermine the status of this habitat.	No. Rationale: This is a terrestrial coastal habitat and its status is not influenced by groundwater water quality.	No. Rationale: The land use activities associated with the actions listed in Table 6.1 above are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the conservation status of this habitat.	No. Rationale: There are no pathways that could connect works associated with the Actions listed in Table 6.1 above to this habitat.	No. Rationale: This habitat is located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in disturbance to this habitat.
Petalophyllum ralfsii (Petalwort) [1395]	No. Rationale: The habitats upon which this species	No. Rationale: This species is not reliant	No. Rationale: This species status is	No Rationale: See rationale outlined for Mudflats and	No. Rationale: There are no pathways	No Rationale: See rationale outlined for Mudflats and
	relies are located at remote distance from	on surface water bodies and its status is	highly influenced by groundwater quality.	Sandflats above.	that could connect works associated	Sandflats above.

European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
	the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	not influenced by lotic or estuarine water quality.	However given that the habitats upon which this species relies is located within a separate groundwater catchment to the Plan area there will be no potential for perturbtions to groundwaters quality to result in negative effects to this species.		with the Actions listed in Table 6.1 above to the habitats that support this species.	
North Bull Island SPA						
Wintering Waterbirds	No. Rationale: This wetland habitat of this SPA are located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in the loss or fragmentation of this habitat.	Yes. Rationale. Watercourses flowing through the Plan area discharge to this SPA. Perturbations to these watercourses from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result	Yes. Rationale. Perturbations to groundwaters from any works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works could in theory result in negative effects to the status	No. Rationale: The land use activities associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works are not predicted to have the potential to result in emissions to	Yes. Rationale: There is potential for construction works associated with the expansion of walking and cycling trails and their subsequent use and flood scheme works to result in the spread of nonnative invasive species that could	No. Rationale: The habitats upon which wintering waterbirds rely for foraging and roosting are located at remote distance from the Plan area and there will be no potential for works associated with the Actions listed in Table 6.1 above to result in disturbance or displacement of these bird species.

European Sites & Qualifying Features	Habitat Loss & Fragmentation		Habitat Deg	radation		Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native invasive species	
		in negative downstream effects to the status of wetland habitats that support wintering waterbirds.	of wetland habitats that support wintering waterbirds	atmosphere that could result in negative effects to foraging or roosting wintering waterbirds.	undermine the status of wetland habitats upon which wintering waterbirds rely.	
Wicklow Mountains SAC						
Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae)	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with this action and the subsequent use of trails in the vicinity of this qualifying habitat could have the potential to result in negative effects	Yes. Rationale: Any works associated with the expansion of the walking and cycling network and their subsequent use adjacent to or upstream of this qualifying habitat could result in pertubations to surface water quality with negative consequences for the conservation status of this habitat.	Yes. Rationale: Any works associated with the expansion of the walking and cycling network and their subsequent use adjacent to or upstream of this qualifying habitat could result in pertubations to ground water quality with negative consequences for the conservation status of this habitat.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use adjacent to or upstream of this habitat to result in the spread of nonnative invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works adjacent to or upstream of this SAC could result in disturbance to this habitat.
	to its conservation status.					

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European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
Natural dystrophic lakes and ponds	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with this action and the subsequent use of trails in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status.	Yes. Rationale: Any works associated with the expansion of the walking and cycling network and their subsequent use adjacent to or upstream of this qualifying habitat could result in pertubations to surface water quality with negative consequences for the conservation status of this habitat.	Yes. Rationale: Any works associated with the expansion of the walking and cycling network and their subsequent use adjacent to or upstream of this qualifying habitat could result in pertubations to ground water quality with negative consequences for the conservation status of this habitat.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use adjacent to or upstream of this habitat to result in the spread of nonnative invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works adjacent to or upstream of this SAC could result in disturbance to this habitat.
Northern Atlantic wet heaths with Erica tetralix	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use within or adjacent to this habitat to	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.

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European Sites & Habitat Loss & **Habitat Degradation** Disturbance/Displacement Qualifying Features Fragmentation Surface Water Groundwater Air Non-native invasive species qualifying habitat. walking and cycling the expansion of the emissions to result in the spread Works associated with this action and the atmosphere that network in the Plan walking and cycling of non-native could result in area. network in the Plan invasive species subsequent use of trails negative effects to area. that could within or in the vicinity the status of this undermine the of this qualifying habitat could have the habitat. status of this habitat. potential to result in negative effects to its conservation status European dry heaths Yes Rationale: Works Rationale: This habitat Rationale: This Rationale: The Rationale: There is Rationale: Any works within associated with the is not reliant on habitat is not reliant potential for works land use activities or adjacent to examples of this expansion of walking surface water habitats on surface water associated with the associated with the habitat within the SAC could and cycling trails and and will not be habitats and will not expansion of the expansion of the result in habitat disturbance. negatively affected by any perturbations to their subsequent use represent the land use be negatively affected by any walking and walking and cycling cycling network network and their activities of the Plan surface waters that perturbations to are not predicted to subsequent use most likely to result in could arise during the surface waters that have the potential within or adjacent negative effects to this qualifying habitat. expansion of the could arise during to result in to this habitat to walking and cycling the expansion of the result in the spread emissions to network in the Plan Works associated with walking and cycling atmosphere that of non-native this action and the network in the Plan could result in invasive species subsequent use of trails area. negative effects to that could

within or in the vicinity

of this qualifying habitat could have the

potential to result in negative effects to its conservation status.

the status of this

habitat.

undermine the status of this

habitat.

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European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
Alpine and Boreal heaths	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with this action and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use within or adjacent to this habitat to result in the spread of non-native invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.
Calaminarian grasslands of the Violetalia calaminariae	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use within or adjacent to this habitat to	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.

European Sites & Qualifying Features	Habitat Loss & Fragmentation		Habitat Deg	gradation		Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native invasive species	
	qualifying habitat. Works associated with this action and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status.	walking and cycling network in the Plan area.	the expansion of the walking and cycling network in the Plan area.	emissions to atmosphere that could result in negative effects to the status of this habitat.	result in the spread of non-native invasive species that could undermine the status of this habitat.	
Species-rich Nardus grasslands, on siliceous substrates in mountain areas (and submountain areas, in Continental Europe)	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with this action and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use within or adjacent to this habitat to result in the spread of non-native invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.

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European Sites & Qualifying Features	Habitat Loss & Fragmentation		Habitat Deg	gradation		Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native invasive species	
Blanket bogs (* if active bog)	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with this action and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use within or adjacent to this habitat to result in the spread of non-native invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.
Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani)	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use within or adjacent to this habitat to	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.

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European Sites & Qualifying Features	Habitat Loss & Fragmentation		Habitat Deg	gradation		Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native invasive species	
	qualifying habitat. Works associated with this action and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status.	walking and cycling network in the Plan area.	the expansion of the walking and cycling network in the Plan area.	emissions to atmosphere that could result in negative effects to the status of this habitat.	result in the spread of non-native invasive species that could undermine the status of this habitat.	
Calcareous rocky slopes with chasmophytic vegetation	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with this action and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use within or adjacent to this habitat to result in the spread of non-native invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.
	potential to result in negative effects to its conservation status.				naoitat.	

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European Sites & Qualifying Features	Habitat Loss & Fragmentation			Disturbance/Displacement		
		Surface Water	Groundwater	Air	Non-native invasive species	
Siliceous rocky slopes with chasmophytic vegetation	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this qualifying habitat. Works associated with this action and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the walking and cycling network in the Plan area.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use within or adjacent to this habitat to result in the spread of non-native invasive species that could undermine the status of this habitat.	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.
Old sessile oak woods with Ilex and Blechnum in the British Isles	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during the expansion of the	No. Rationale: This habitat is not reliant on surface water habitats and will not be negatively affected by any perturbations to surface waters that could arise during	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use within or adjacent to this habitat to	Yes. Rationale: Any works within or adjacent to examples of this habitat within the SAC could result in habitat disturbance.

European Sites & Qualifying Features	Habitat Loss & Fragmentation		Disturbance/Displacement			
		Surface Water	Groundwater	Air	Non-native invasive species	
	qualifying habitat. Works associated with this action and the subsequent use of trails within or in the vicinity of this qualifying habitat could have the potential to result in negative effects to its conservation status.	walking and cycling network in the Plan area.	the expansion of the walking and cycling network in the Plan area.	emissions to atmosphere that could result in negative effects to the status of this habitat.	result in the spread of non-native invasive species that could undermine the status of this habitat.	
Lutra lutra (Otter)	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities of the Plan most likely to result in negative effects to this qualifying species. Works associated with this action and the subsequent use of trails in the vicinity of	Yes. Rationale: Any works associated with the expansion of the walking and cycling network and their subsequent use adjacent to or upstream of watercourses within the SAC could result in pertubations to surface water quality with negative consequences for the	Yes. Rationale: Any works associated with the expansion of the walking and cycling network and their subsequent use adjacent to or upstream of watercourses within the SAC could result in pertubations to ground water quality with negative consequences for the	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to the status of this	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network and their subsequent use adjacent to or upstream of watercourses within the SAC to result in the spread of nonnative invasive species that could	Yes. Rationale: Any works adjacent to or upstream watercourses within the SAC could result in disturbance and displacement of this species.
	watercourses supporting this species could result in the loss of habitat for this species	conservation status of this species.	conservation status of this habitat.	species.	undermine the status of habitats supporting this species.	

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European Sites & Qualifying Features	Habitat Loss & Fragmentation		Habitat D	egradation		Disturbance/Displacement
		Surface Water	Groundwater	Air	Non-native invasive species	
Wicklow Mountains SPA						
Breeding Raptors	Yes. Rationale: Works associated with the expansion of walking and cycling trails and their subsequent use represent the land use activities most likely to result in negative effects to this SPA. Works associated with this action and the subsequent use of trails within or in the vicinity of habitats upon which these species rely for breeding and foraging could have the potential to result in negative effects to their conservation status.	No. Rationale. These species are not reliant on surface water habitats or prey species and their conservation status is not likely to be undermined by perturbations to water quality that could during works associated with the expansion of walking and cycle network in the Plan area.	No. Rationale, These species are not reliant on groundwaters.	No. Rationale: The land use activities associated with the expansion of the walking and cycling network are not predicted to have the potential to result in emissions to atmosphere that could result in negative effects to breeding raptors.	Yes. Rationale: There is potential for construction works associated with the expansion of the walking and cycling network within or in the vicinity of this SPA to result in the spread of nonnative invasive species that could undermine the status of raptor breeding habitat.	Yes. Rationale: There is potential for works associated with the expansion of the walking and cycling network within or adjacent to the SPA to result in disturbance and displacement of breeding raptors within this SPA.

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6.2 IN-COMBINATION EFFECTS

This Section provides an outline of the potential cumulative effects on the European Sites within the zone of influence of the Plan. There is potential for a wide range of plans and project to combine with the CCAP and documented threats and pressures to these European Sites. Table 6.3 below provides an non-exhaustive list of the Plans that represent those most likely to combine with the CCAP to result in potential cumulative effects. An assessment for potential cumulative effects to arise is provided for each of the Plans listed in Table 6.3.

Table 6.3: Assessment For Potential Cumulative Effects With Other Plans & Projects

Plan	Comment	Cumulative effects
Climate	During the formulation of the CCAPs for the Dublin	
change Action	Region, a suite of common thematic actions have	
Plans for other	been prepared for each of the local authority areas.	
Dublin Local		
Authorities	The individual action plan for each Local Authority	
	has undergone Habitats Directive Assessment and	
	Strategic Environmental Assessment. It has been	
	found that by implementing the mitigation policies	
	and objectives of the relevant CDP as identified in the	
	NIR and SEA ER, effects to the environment and	
	European Sites are not likely to occur	
National	The purpose of the NPF is to provide a focal point for	A NIR was prepared for
Planning	spatial plans throughout the planning hierarchy. It	this plan and an
Framework	will provide a framework for the new Regional	Appropriate Assessment
	Spatial and Economic Strategies (RSESs) by the three	was completed. The
	Regional Assemblies and the associated enhancement	Appropriate Assessment
	of the economic development focus of local	concluded that, subject to
	authorities as per the Local Government Reform Act	mitigation measures

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Plan	Comment	Cumulative effects
	2014. The draft NPF will co- ordinate the strategic planning of urban and rural areas in a regional development context to secure overall proper planning and development as well as co-ordination of the RSES's and city/ county development plans in addition to local economic and community plans and local area plans and other local development.	proposed in the NIR, there will be no adverse effects to the integrity of any European Sites as a result of the implementation of this Plan.
Regional Spatial & Economic Strategy	The RSES is a strategic plan which identifies regional assets, opportunities and pressures and provides appropriate policy responses in the form of Regional Policy Objectives. At this strategic level it provides a framework for investment to better manage spatial planning and economic development throughout the Region	A NIR was prepared for this plan and concluded that, subject to mitigation measures proposed in the NIR, there will be no adverse effects to the integrity of any European Sites as a result of the implementation of this Plan.
The Transport Strategy for the Greater Dublin Area, 2016-2035	This Strategy sets out how transport will be developed across the region, covering Dublin, Meath, Wicklow and Kildare, over the period of the strategy and was subject to SEA and AA.	No in combination effects are identified.
Water Services Strategic Plan	Ireland's first integrated national plan for the delivery of water services, the Water Services Strategic Plan (WSSP) addresses six key themes and was adopted in 2015. It was subject to full SEA and AA and	No in-combination impacts were predicted as a result of implementation

Plan	Comment	Cumulative effects
	concluded that overall, the assessment has identified that the implementation of the draft WSSP is likely to have positive effects on the environment and provided adequate environmental assessments and mitigations measures are implemented at lower plan and project levels it will not have the potential to result in likely significant effects to European Sites.	of the Plans
Neighbouring County Development Plans	These plans were subject to full SEA and AA and concluded that subject to full adherence and implementation of all measures and particularly those that aim to safeguard the environment, there will be no potential for adverse effects to European Sites.	No in-combination impacts were predicted as a result of implementation of the Plans
River Basin District Management Plans.	The National River Basin District Management Plan is now published (2018). The second cycle River Basin Management Plan aims to build on the progress made during the first cycle with a greater emphasis on ensuring the evidence base is available and the administration supports are fully in place to support key measures. The approach to the plan development involves characterisation of Ireland's water bodies in order to develop a tailored programme of measures to allow for the protection of good status or the restoration of good status for all water bodies. The outcomes are then monitored in order to feed into further characterisation and measures setting as the cycle moves forward. The plan was subject to SEA and Appropriate Assessment.	No in-combination impacts are predicted as a result of implementation of the Plans

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rements of the Floods impacts are predicted as a result of implementation of the Plans. No in-combination impacts are predicted as a result of implementation of the Plans.
conning application for strategic ment to An Bord Pleanála for mainage Project in June 2018. Soses a new regional wastewater elocated in the townland of county Dublin, an underground anchardstown to Clonshaugh, a must Abbotsown, a partial fringe sewer, and an outfall reated water to the Irish Sea. Ides a regional sludge treatment of facility and an associated fity at Newtown near Kilshane Chapter 23 of the EIAR was reviewed with a focus on the cumulative impacts, no the cumulative impacts, on the cumulative impacts, on the cumulative impacts are predicted as a result of implementation of the Project
to uc

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Plan	Comment	Cumulative effects
The Greater Dublin Transport Strategy 2016- 2035	The Transport Strategy for the Greater Dublin Area, 2016-2035 has been prepared and published by the National Transport Authority. It sets out how transport will be developed across the region, covering Dublin, Meath, Wicklow and Kildare, over the period of the strategy and has been approved by the Minister for Transport, Tourism and Sport in accordance with the relevant legislation. Luas, heavy rail and orbital bus routes are of particular relevance to the elements of this Plan.	Positive effects in relation to the prioritisation of public transport modes above private transport.

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7.0 MITIGATION MEASURES

The South Dublin County CCAP sits within the frameworks of the South Dublin County Development Plan and has been prepared in line with Objective CC02 of the CDP. The CDP also outlines a range of policies and objectives that aim to safeguard the environment and ensure that low tier plans and project facilitated by the CDP do not have the potential to result in likely significant effects to European Sites. The protection afforded to the environment by these policies and objectives will also apply for all future land use actions facilitated by the CCAP. The key policies and objectives of the CCAP that will protect the European Sites occurring within the zone of influence of this Plan from likely significant effects are listed and evaluated in Table 7.1 below.

In addition to the environmental safeguard measures of the CDP identiifed in Table 7.1 further mitigation in the form of proposed amendments to specific Actions of the CCAP are outlined in Table 7.2. The amendments to these Actions emphasise the need to ensure protection of the natural environment during the implementation of these actions.

Table 7.1: South Dublin CDP Environmental Safeguards

CDP Ref.	Mitigation Measure	Evaluation
11.8.1 Environmental Impact Assessment	The Planning and Development Regulations 2001 specify mandatory thresholds above which Environmental Impact Statements (EIS) are required, setting out the types and scale of development proposals that require EIS. Where it appears to the Planning Authority that a development proposal that falls below the thresholds set out in the Planning and Development Regulations would be likely to have a significant environmental effect, a subthreshold/discretionary EIS can be requested by the Planning Authority.	Adherence to this Section of the CDP will ensure that any land use projects supported by the CCAP that is likely to have significant effects on the environment will be subject to the Environmental Impact Assessment process. This will ensure that any such projects facilitated by the CCAP will be assessed and only permitted to proceed where it can be demonstrated that the potential environmental effects can be ameliorated to an acceptable level.
11.8.2 Appropriate Assessment	Under Article 6 of the Habitats Directive there is a requirement to establish whether, in relation to plans and projects, Appropriate Assessment (AA) is required. If, following screening, it is considered that AA is required then the proponent of the plan or project must prepare a Natura Impact Statement. A plan or project will only be authorised after the competent authority has ascertained, based on scientific evidence, Screening for Appropriate Assessment, and a Stage 2 Appropriate Assessment where necessary, that: The plan or project will not give rise to significant adverse direct, indirect or secondary effects on the integrity of any Natura 2000 site (either individually or in combination with other plans or projects), or The plan or project will have significant adverse effects on the integrity of any Natura 2000 (that does not host a priority natural habitat type and/or a priority species) but there are no alternative solutions and the	Adherence to this Section of the CDP will ensure that any land use project facilitated by the CCAP will be subject to project-level Article 6(3) and where necessary Article 6(4) assessments. The requirement to carry out these assessments will ensure that only those projects that do not result in likely significant effects European Sites or that are of overriding public interest will be permited. Adherence to this Section of the CDP establishes a strict process of pre-consent for all land use projects facilitated by the CCAP.

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	plan or project must nevertheless be carried out for imperative reasons of overriding public interest – including those of a social or economic nature. In this case, it will be a requirement to follow procedures set out in legislation and agree and undertake all compensatory measures necessary to ensure the protection of the overall coherence of a Natura 2000 site/network,	
	or The plan or project will have a significant adverse effect on the integrity of any Natura 2000 site (that hosts a natural habitat type and/or a priority species) but there are no alternative solutions and the plan or project must nevertheless be carried out for imperative reasons for overriding public interest - restricted to reasons of human health or public safety, to beneficial consequences of primary importance for the environment or, further to an opinion from the Commission, to other imperative reasons of overriding public interest. In this case, it will be a requirement to follow procedures set out in legislation and agree and undertake all compensatory measures necessary to ensure the protection of the overall coherence of a Natura 2000 site/network	
HCL12	It is the policy of the Council to support the conservation and improvement of Natura 2000 Sites and to protect the Natura 2000 network from any plans and projects that are likely to have a significant effect on the coherence or integrity of a Natura 2000 Site	The implementation of this Policy will ensure that only those projects facilitated by the CCAP that are not likely to result in significant effects to European Sites will be supported by the Council's planning framework.
HCL15	Non-Designated Areas It is the policy of the Council to protect and promote the conservation of biodiversity outside of designated areas and to ensure that species and habitats that are protected under the Wildlife Acts 1976 and 2000, the Birds Directive 1979 and the Habitats Directive 1992 are	The implementation of this Policy will ensure that only those projects facilitated by the CCAP that are not likely to result in significant effects to protected habitats and species will be supported by the Council's planning framework.

	adequately protected	
HCL15 objective	To ensure that development does not have a significant adverse impact on rare and threatened species, including those protected under the Wildlife Acts 1976 and 2000, the Birds Directive 1979 and the Habitats Directive 1992.	The implementation of this Policy will ensure that only those projects facilitated by the CCAP that are not likely to result in significant effects to rare, threatened or protected habitats and species will be supported by the Council's planning framework.
HCL15 objective 2:	To ensure that, where evidence of species that are protected under the Wildlife Acts 1976 and 2000, the Birds Directive 1979 and the Habitats Directive 1992 exists, appropriate avoidance and mitigation measures are incorporated into development proposals as part of any ecological impact assessment.	The implementation of this Policy will ensure that projects facilitated by the CCAP that present a risk to protected habitats and species will only be permitted where it can be demonstrated that effective mitigation can be implemented to minimise or eliminate the potential for such risks to occur.
IE2 policy	It is the policy of the Council to manage surface water and to protect and enhance ground and surface water quality to meet the requirements of the EU Water Framework Directive	The implementation of this Policy will require any land use projects supported by the CCAP to demonstrate that they will not result in perturbations to surface water or groundwater quality.
IE2 objective 3	To maintain and enhance existing surface water drainage systems in the County and promote and facilitate the development of Sustainable Urban Drainage Systems (SUDS), including integrated constructed wetlands, at a local, district and County level, to control surface water outfall and protect water quality.	The provision of enhanced surface water drainage systems will reduce the risk posed by projects that may be facilitated by the CCAP to European Sites occurring within the same catchment as the proposed project.
IE2 objective 5	To limit surface water run-off from new developments through the use of Sustainable Urban Drainage Systems (SUDS) and avoid the use of underground attenuation and storage tanks	The implementation of this requirement will require, where applicable, projects that are supported by the CCAP to include design measures that limit surface water runoff. This will in turn have the potential to limit potential hydrological impacts to European Sites occurring within the same catchment area as a proposed project.

IE2 objective 8	To protect salmonid water courses, such as the Liffey and Dodder Rivers catchments (including Bohernabreena Reservoir), which are recognised to be exceptional in supporting salmonid fish species.	The implementation of this measures will require any projects supported by the CCAP in these surface water catchments to implement measures that protect the status of waters supporting salmonids. The implementation of such measures will in turn provide protection of water quality and will minimise the potential for hydrological pathways between projects and European Sites to function as impact pathways.
IE2 objective 9:	To protect water bodies and watercourses, including rivers, streams, associated undeveloped riparian strips, wetlands and natural floodplains, within the County from inappropriate development. This will include protection buffers in riverine and wetland areas as appropriate. (see also Objective G3 Objective 2 – Biodiversity Protection Zone)	The implementation of this objective will require the provision of buffers between waterbodies and certain projects supported by the CCAP. The provision of such buffers will have the potential to minimise or eliminate risks posed by projects to any freshwater-dependent habitats and species of European Sites that are linked to the project site.
IE2 Objective 10:	To require adequate and appropriate investigations to be carried out into the nature and extent of any soil and groundwater contamination and the risks associated with site development work, in particular for brownfield development.	The implementation of this objective will ensure that any projects supported by the CCAP in brownfield sites are investigated for their potential to result in surface water or groundwater pollution. The completion of such investigations will allow for the assessment and mitigation of such risks in advance of any project works. This approach to such projects will minimise or eliminate the potential risk posed by them to European Sites.
IE2 objective 10	To require adequate and appropriate investigations to be carried out into the nature and extent of any soil and groundwater contamination and the risks associated with site development work, in particular for brownfield development	The implementation of this objective will ensure that any projects supported by the CCAP in brownfield sites are investigated for their potential to result in surface water or groundwater pollution. The completion of such investigations will allow for the assessment and mitigation of such risks in advance of any project works. This approach to such projects will minimise or eliminate the potential risk posed by them to European Sites.

G2 objective 3	To restrict development that would fragment or prejudice the Green Infrastructure network.	European Sites are a key part of the Green Infrastructure network occurring in the Plan area and adherence to this objective will ensure that only projects that do not prejudice the status of European Sites will be permitted under the Council's planning framework.
G2 objective 12	To seek to control and manage non-native invasive species and to develop strategies with relevant stakeholders to assist in the control of these species throughout the County	Adherence to this objecetive will require non-native invasive species management plans for any projects supported by the CCAP that may result in the spread of such species. This requirement will minimise or eliminate the risk posed by the spread of non-native invasive species during project works to European Sites .
G3 objective 5	To restrict the encroachment of development on watercourses, and provide for protection measures to watercourses and their banks, including but not limited to: the prevention of pollution of the watercourse, the protection of the river bank from erosion, the retention and/or provision of wildlife corridors and the protection from light spill in sensitive locations, including during construction of permitted development.	The implementation of this objective will require the provision of buffers between waterbodies and certain projects supported by the CCAP. The provision of such buffers will have the potential to minimise or eliminate risks posed by projects to any freshwater-dependent habitats and species of European Sites that are linked to the project site.

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Table 7.2: Recommended Rewording of CCAP Actions

Action No.	Transport Actions
5	Strengthen traditional villages by improving the public realm through enhancement of green infrastructure measures and sustainable transport linkages
	Flood Resilience
13	Develop template to capture impacts, response and costs (including ecosystem services/natura capital costs) for all major climate events
15	Update DLA urban drainage and flooding policies for current knowledge of flood risk and the latest best practice in drainage design promoting natural flood measures as a priority
20	Minor flood schemes and general maintenance that are designed and implemented to promot nature based solutions where practical

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21	Communication and awareness campaigns on flood risk management and natural flood management measures
	Nature Based Solutions
22	Include native species into local authority plans where appropriate-as a key nature based measure where appropriate

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7.1 RESPONSIBILITY FOR IMPLEMENTING MITIGATION MEASURES

The responsibility for implementing land use actions proposed by the CCAP lies with the relevant departments of South Dublin County Council. Departments seeking to implement land use actions proposed by the CCAP are obliged to ensure that the implementation of these actions are consistent with the Objectives and requirements of the environmental safeguards of the CDP as listed in Table 7.1 above. It is a statutory requirement for a competent authority (e.g. South Dublin County Council) to carry out screening for appropriate assessment for all land use projects and all land use actions implemented under the CCAP will be assessed for their potential to result in likely significant effects. However, such effects are not likely to occur if the Objectives in the CDP as listed in Table 7.1 above are adhered to, where appropriate.

7.2 MONITORING OF MITIGATION MEASURES

Whilst there is no legal requirement to monitor the outputs of the AA process, there is an obligation to monitor the implementation of the CDP through the E.C. SEA Directive as implemented in Ireland. Contingency measures may have to be applied if there is evidence that Objectives cannot be implemented successfully. The *European Communities* (Environmental Liability) Regulations 2008 will also apply in the event of any environmental damage to habitats and species both within and outside of the European sites.

8.0

CONCLUSION

This NIR has reviewed the potential impacts arising from the CCAP and found that, without

the implementation of mitigation measures, the Plan will have the potential to impact upon

the Conservation Objectives of eight European Sites and their relevant qualifying features that

occur within the zone of influence of the Plan.

The potential impacts that could negatively affect these European Sites have been outlined in

Section 6 this NIR. Section 7 outlines the environmental safeguards within the South Dublin

CDP that will be applied for all land use activities supported by the CCAP. The purpose of

these safeguards is to minimise and/or eliminate potential impacts associated with the CCAP

land use actions to European Sites and the wider environment in general.

The mitigation measures outlined in Section 7 of this NIR will protect these Sites from

potential adverse impacts. Table 7.1 has listed these mitigation measures and evaluated

their potential to safeguard European sites from these actions. A rational has been

provided to demonstrate how these mitigation measures will provide effective

safeguards against any landuse projects arising from these actions of the CCAP.

The measures and requirements of the South Dublin CDP and particularly Section 11.8.2 of

the CDP that aim to protect, conserve and appropriately manage European Sites provide a

basis for eliminating or minimising to an insignificant level potential adverse land use effects

that could arise from the land use actions identified in Table 6.1 of this NIR. These objectives

along with the additional safeguards within the CDP as outlined in Table 7.1 above will

provide a basis for ensuring any future land use facilitated by the CCAP will not be supported

where they present a risk of likely significant effects to European Sites.

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APPENDIX 1: SCREENING STATEMENT FOR APPROPRIATE ASSESSMENT

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Climate Change Action Plan 2019 - 2024

Statement in Support of

Screening for Appropriate
Assessment

Prepared by Minogue and Associates with Doherty Environmental.

www.minogueandassociates.com

South Dublin County Council

Climate Change Action Plan 2019 - 2021

Statement in support of Screening for Appropriate Assessment

Document Stage	Document Version	Prepared by
Draft	1	Pat Doherty MSc, MCIEEM

This report has been prepared by Minogue and Associates with all reasonable skill, care and diligence. Information report herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is prepared for South Dublin County Council and we accept no responsibility to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

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1.1 INTRODUCTION

South Dublin County Council intends to implement its first Climate Change Action Plan (CCAP) for the period 2019 to 2024. Minogue and Associates have been appointed by South Dublin County Council to prepare a statement in support of Screening for Appropriate Assessment for the CCAP.

The function of this Screening Exercise is to identify the potential for the proposed CCAP to result in likely significant effects to European Sites and to provide information so that South Dublin County Council can determine whether a Natura Impact Report and Appropriate Assessment is required for the Action Plan.

1.2 HABITATS DIRECTIVE ASSESSMENT

Article 6(3) of the Habitats Directive requires an assessment of the potential effects of a land use plan or project on one or more Natura 2000 (N2K) Sites. It is noted that a Habitats Directive Assessment is commonly referred to as an "Appropriate Assessment" (Dodd et al, 2007). However "Appropriate Assessment" forms only one stage of the HDA process (all stages making up the assessment process are outlined in detail below). The EU Habitats Directive provides the legislative framework for the protection of habitats and species throughout Europe through the establishment of a network of designated conservation areas known as the N2K network. The N2K network includes sites designated as Special Areas of Conservation (SACs), under the EU Habitats Directive and Special Protection Areas (SPAs) designated under the EU Birds Directive. Under the European Communities (Birds and Natural Habitats Regulations 2011, as amended) SACs and SPAs are referred to as European Sites. SACs are designated in areas that support habitats listed on Annex I and/or species listed on Annex II of the Habitats Directive. SPAs are designated in areas that support: 1% or more of the all-Ireland population of bird species listed on Annex I of the EU Birds Directive; 1% or more of the population of a migratory species; and more than 20,000 waterfowl.

Articles 6(1) & (2) of the Habitats Directive set out provisions for the conservation management of European Sites. Articles 6(3) and 6(4) of this Directive set out a series of procedural steps to test whether or not a plan or project is likely to affect a European Sites. Article 6(3) also establishes the requirement for a HDA:

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"any plan or project not directly connected with or necessary to the management of the

(European) site but likely to have a significant effect thereon, either individually or in

combination with other plans and projects, shall be subjected to appropriate assessment of its

implications for the site in view of the site's conservation objectives. In light of the

conclusions of the assessment of the implication for the site and subject to the provisions of

paragraph 4, the competent national authorities shall agree to the plan or project only after

having ascertained that it will not affect the integrity of the site concerned and, if appropriate,

after having obtained the opinion of the general public".

Therefore, the objective of this Screening is to identify whether or not land use measures

supported by the Plan will have the potential to adversely affect the Conservation Objectives

of European Sites. Such a conclusion will be arrived at by assessing the implications of future

developments that will be supported by the Plan on each European Site occurring within its

zone of influence.

The HDA is underpinned by the precautionary principle. Therefore, if the risk of adverse

impacts to the conservation objectives of a European Site cannot be ruled out it is assumed

that the potential for an adverse impact will exist. Where such uncertainties are identified

during the assessment, measures will be proposed to avoid or mitigate the risk of adverse

impacts occurring.

The Screening was undertaken with reference to the following guidance documents on

Habitats Directive Assessments:

Appropriate Assessment of Plans and Projects in Ireland - Guidance for Planning

Authorities (2009). DEHLG.

Managing Natura 2000 Sites - The provisions of Article 6 of the Habitats directive

92/43/EEC. European commission (2000). (To be referred to as MN 2000).

Assessment of Plans and Projects Significantly Affecting Natura 2000 sites -

Methodological Guidance of the Provisions of Article 6(3) and (4) of the Habitats

directive 92/43/EEC. European Commission (2001).

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1.3 STAGES OF THE HABITATS DIRECTIVE ASSESSMENT

The European Commission (2001) Guidance has outlined a staged process for the completion of a HDA.

- Stage 1 Screening: This stage defines the proposed plan, establishes whether the proposed plan is necessary for the conservation management of the European Site and assesses the likelihood of the plan to have a significant effect, alone or in combination with other plans or projects, upon a European Site.
- Stage 2 Appropriate Assessment: If a plan or project is likely to have a significant effect an Appropriate Assessment must be undertaken. In this stage the impact of the plan or project to the Conservation Objectives of the European Site is assessed. The outcome of this assessment will establish whether the plan will have an adverse effect upon the integrity of the European Site.
- Stage 3 Assessment of Alternative Solutions: If it is concluded that, subsequent to the implementation of mitigation measures, a plan has an adverse impact upon the integrity of a European Site it must be objectively concluded that no alternative solutions exist before the plan can proceed.
- Stage 4 Where no alternative solutions exist and where adverse impacts remain but imperative reasons of overriding public interest (IROPI) exist for the implementation of a plan or project an assessment of compensatory measures that will effectively offset the damage to the Natura site 2000 will be necessary.

The remainder of this document sets out the Methodology and Results of the Screening exercise. It is structured as follows:

Section 2: Habitats Directive Assessment Methodology;

Section 3: Description of the proposed Climate Change Action Plan & Screening of Actions for likely significant effects;

Section 4: Identifies the European Sites within the zone of influence of the Plan;

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Section 5: Identifies the Likely Significant Effects of the Plan to European Sites occurring within its zone of influence; and

Section 6: Provides a Screening conclusion.

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2.0 SCREENING METHODOLOGY

The function of the Screening Assessment is to identify whether the Plan will have a likely significant effect on European Sites. In this context "likely" means any effect that may be reasonably predicted and "significant" means not trivial or inconsequential but an effect that is potentially relevant to the Site's conservation objectives ¹. Any effect, which would compromise the functioning and viability of a Site and interfere with achieving the conservation objectives of the Site would constitute a significant effect.

The nature of the likely interactions between the Plan and the Conservation Objectives of European Sites will depend upon the potential for future land use activities supported by the Plan to interact with European Sites and their associated qualifying features of interest; the sensitivity of European Site qualifying features to potential impacts associated with land use activities facilitated by the Plan; the current conservation status of the European Site qualifying features; and the likely changes that will result from the implementation of the Plan, in combination with other plans and projects.

The European Commission Guidelines (2001) outline the stages involved in undertaking a Screening assessment of a plan or project that has the potential to have likely significant effects on European Sites. The methodology adopted for the Screening of the Plan is informed by these guidelines and was undertaken in the following stages:

- A brief description of the Plan is provided and determine whether it is necessary for the conservation management of European Sites;
- Identification of European Sites occurring within the zone of influence of the Plan;
- · Identification of potential likely significant effects to European Sites; and

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¹ See English Nature's Habitat Regulations Guidance Note No. 3, 1999.

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Identification of other plans or projects that, in combination with the Plan, have the
potential to affect European Sites.

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3.0 DESCRIPTION OF THE CCAP

3.1 **OVERVIEW**

For the first time, Dublin's four local authorities have joined together to develop Climate

Change Action Plans as a collaborative response to the impact that climate change is having,

and will continue to have, on the Dublin Region and its citizens. While each plan is unique to

its functional area, they are unified in their approach to climate change adaptation and

mitigation, and their commitment to lead by example in tackling this global issue.

These CCAPs follow on from the publication of A Strategy for Climate Change Action Plans

for the Dublin Local Authorities (DLAs), which was published in January 2017. The strategy

used a structured approach that focused on seven key areas (Citizen Engagement, Planning,

Energy, Transport, Water, Waste, and Ecosystems & Biodiversity), and set out how the DLAs

would develop the four climate change action plans. The action plans will be unique to each

local authority area but synchronised in their methodology.

This plan concentrates on the two approaches required to tackle climate change. The first,

mitigation, consists of actions that will reduce current and future GHG emissions; examples

of these include reductions in energy use, switching to renewable energy sources and carbon

sinks. The second approach, adaptation, consists of actions that will reduce the impacts that

are already happening now from our changing climate and those that are projected to happen

in the future.

The actions in this draft CCAP for South Dublin will be continually monitored and updated

by a dedicated climate action team working across all Council departments. They will be

assisted by the newly established Dublin Metropolitan Climate Action Regional Office, which

will ensure that the overall plan is fully updated every five years to reflect latest policy,

technology and climate-related impacts. The new office will work with Codema, as technical support and research partner, to ensure that the plans continue to be informed by national and

international best practice.

The actions in the CCAP are presented around a number of themes as follows:

Energy and Buildings

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- Transport
- Flood Resilience
- Nature Based Solutions
- Resource Management.

Collectively, these collectively address the four targets of this plan, which are:

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

As such, this CCAP encompasses the functional area of South Dublin County. This area is referred to throughout this report as the "Plan area". The administrative area of County Council for which the Plan has been prepared comprises 222.7 km².

3.2 SCREENING OF CCAP ACTIONS

All CCAP actions outlined in the Plan are presented in Appendix 1. A screening of each of these actions is also provided in Appendix 1. The majority of these actions have been identified as not having the potential to result in any land use effects or where land use effects arise, they are identified as having potential positive impacts for the environment. However a small number of actions, associated with transport and flood mitigation measures, have been identified as having the potential, in the absence of mitigation, to result in likely significant effects to European Sites. It is noted that the identification of likely significant effects associated with these actions is underpinned by a precautionary approach and the broad level of information available for each of these three actions at the Plan stage. In the absence of

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definitive locations that will be subject to land use activities facilitated by these actions it cannot be ruled out that such activities will not have the potential to result in likely significant

effects to European Sites.

The three actions that could not be screened out that this stage of the Habitats Directive

Assessment process is as follows:

Transport Actions: Action No. 10 - Build out county cycle network

Transport Actions: Action No. 11 – Development of cycle/pedestrian greenways

Flood Defence: Action No. 20 - Minor flood schemes and general maintenance

3.3 PROPOSED CCAP & NATURA CONSERVATION MANAGEMENT

The proposed CCAP seeks to implement measures that will reduce the greenhouse gas

emissions and provide improved resilience to climate change within the local authority area.

It is clear from this overarching objective of the proposed CCAP, that it is not necessary for

the management of any European Site for nature conservation purposes. Therefore

consideration is given to the Plan and whether it has the potential to result in likely significant

effects to European Sites and their Conservation Objectives.

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4.0 IDENTIFICATION OF EUROPEAN SITES WITHIN THE ZONE OF INFLUENCE OF THE PLAN

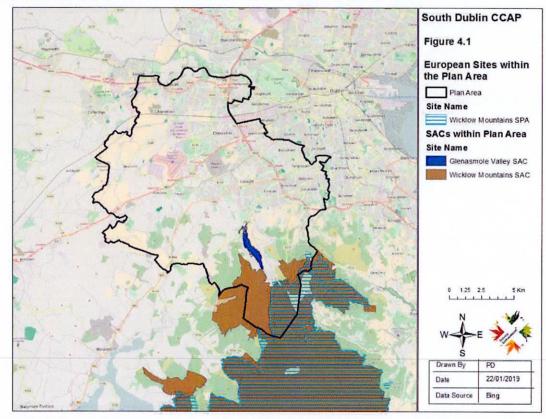
In order to identify the European Sites that could be significantly affected by the implementation of the proposed CCAP an initial long-list of sites occurring within a 15km radius of the Plan area (i.e. South Dublin County Council) has been compiled. The establishment of a 15km buffer area surrounding the Plan area is in line with the DAHLG recommended procedures for identifying European Sites. The buffer distance of 15km was also considered sufficient to ensure all potential impacts to European Sites arising from the implementation of the Plan were taken into account (see Section 4.1 below for more information). This is based on the absence of any impact pathways (i.e. the absence of hydrological pathway) between the Plan area and other European Sites occurring at a distance greater than 15km from the Plan area.

4.1 EUROPEAN SITES WITHIN 15KM OF THE PLAN

> Table 4.1 lists all European Sites occurring within and surrounding the Plan area. A total number of three European Sites, comprising two SACs and one SPAs occur within the Plan Area (see Figures 4.1). In addition to these European Sites a total of 13 SACs and 5 SPAs occur within the Plan Area (see Figure 4.2 and Figure 4.3).

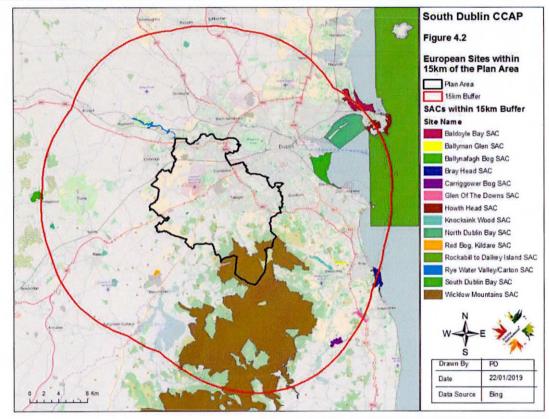
> Table 4.1 lists the qualifying features of interest of the SAC and the special conservation interests of the SPAs occurring within the Plan area and the surrounding 15km buffer zone. In addition the broad habitat type and species for which each site is designated are also outlined.

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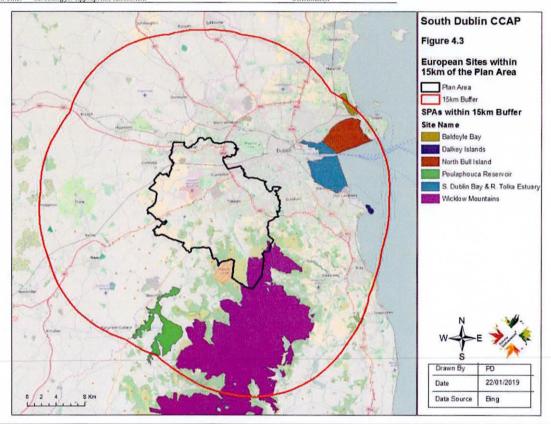


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Table 4.1: European Sites within 15km of the Plan Area

European Sites	Distance from Plan Area	Qualifying Features of Interest/Special Conservation Interests	Broad QI/SCI Category
European Sites within the Plan Area			
Glenasmole Valley SAC	Within Plan area	Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (* important orchid sites) [6210] Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae) [6410] Petrifying springs with tufa formation (Cratoneurion) [7220]	Terrestrial grassland and peatland habitat Groundwater dependent habitat
Wicklow Mountain SAC	Within Plan area	Oligotrophic waters containing very few minerals of sandy plains (Littorelletalia uniflorae) [3110] Natural dystrophic lakes and ponds [3160] Northern Atlantic wet heaths with Erica tetralix [4010] European dry heaths [4030]	Surface water dependent habitats Terrestrial grassland, peatland, woodland and exposed rock habitat Mammals (otters)

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		Alpine and Boreal heaths [4060] Calaminarian grasslands of the Violetalia calaminariae [6130] Species-rich Nardus grasslands, on siliceous substrates in mountain areas (and submountain areas, in Continental Europe) [6230] Blanket bogs (* if active bog) [7130] Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani) [8110] Calcareous rocky slopes with chasmophytic vegetation [8210] Siliceous rocky slopes with chasmophytic vegetation [8220] Old sessile oak woods with Ilex and Blechnum in the British Isles [91A0] Lutra lutra (Otter) [1355]	
Wicklow Mor SPA	untain Within Plan area	Merlin (Falco columbarius) Peregrine (Falco peregrinus)	Breeding raptor bird species
European Site 15km of the F			

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South Dublin Bay SAC	km to the	Mudflats and sandflats not covered by seawater at low tide [1140] Annual vegetation of drift lines [1210] Salicornia and other annuals colonising mud and sand [1310] Embryonic shifting dunes [2110]	Coastal habitats
North Dublin Bay SAC	km to the	Mudflats and sandflats not covered by seawater at low tide [1140] Annual vegetation of drift lines [1210] Salicornia and other annuals colonising mud and sand [1310] Atlantic salt meadows (Glauco-Puccinellietalia maritimae) [1330] Mediterranean salt meadows (Juncetalia maritimi) [1410] Embryonic shifting dunes [2110] Shifting dunes along the shoreline with Ammophila arenaria (white dunes) [2120] Fixed coastal dunes with herbaceous vegetation (grey dunes) [2130] Humid dune slacks [2190]	Coastal habitats Plant species (Petalwort liverwort)

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		Petalophyllum ralfsii (Petalwort) [1395]	
South Dublin Bay & Tolka Estuary SPA	km to the	Light-bellied Brent Goose (Branta bernicla hrota) [A046] Oystercatcher (Haematopus ostralegus) [A130] Ringed Plover (Charadrius hiaticula) [A137] Grey Plover (Pluvialis squatarola) [A141] Knot (Calidris canutus) [A143] Sanderling (Calidris alba) [A144] Dunlin (Calidris alpina) [A149] Bar-tailed Godwit (Limosa lapponica) [A157] Redshank (Tringa totanus) [A162] Black-headed Gull (Chroicocephalus ridibundus) [A179] Roseate Tern (Sterna dougallii) [A192] Common Tern (Sterna hirundo) [A193] Arctic Tern (Sterna paradisaea) [A194] Wetland and Waterbirds [A999]	Wintering coastal waterbirds Breeding Terns Coastal habitats
North Bull Island SPA	km to the	Light-bellied Brent Goose (Branta bernicla hrota)	Wintering coastal waterbirds

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[A046]	Coastal habitats
Shelduck (Tadorna tadorna) [A048]	
Teal (Anas crecca) [A052]	
Pintail (Anas acuta) [A054]	
Shoveler (Anas clypeata) [A056]	
Oystercatcher (Haematopus ostralegus) [A130]	
Golden Plover (Pluvialis apricaria) [A140]	
Grey Plover (Pluvialis squatarola) [A141]	
Knot (Calidris canutus) [A143]	
Sanderling (Calidris alba) [A144]	
Dunlin (Calidris alpina) [A149]	
Black-tailed Godwit (Limosa limosa) [A156]	
Bar-tailed Godwit (Limosa lapponica) [A157]	
Curlew (Numenius arquata) [A160]	
Redshank (Tringa totanus) [A162]	
Turnstone (Arenaria interpres) [A169]	
Black-headed Gull (Chroicocephalus ridibundus) [A179]	

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		Wetland and Waterbirds [A999]	
Knocksink Woods SAC	km to the	Petrifying springs with tufa formation (Cratoneurion) [7220] Alluvial forests with Alnus glutinosa and Fraxinus excelsior (Alno-Padion, Alnion incanae, Salicion albae) [91E0]	Groundwater dependent habitats
Rye Water Valley SAC	km to the	Petrifying springs with tufa formation (Cratoneurion) [7220] Vertigo angustior (Narrow-mouthed Whorl Snail) [1014] Vertigo moulinsiana (Desmoulin's Whorl Snail) [1016]	Groundwater dependent habitats Groundwater/surface water dependent species
Baldoyle Bay SAC	km to the	Mudflats and sandflats not covered by seawater at low tide [1140] Salicornia and other annuals colonising mud and sand [1310] Atlantic salt meadows (Glauco-Puccinellietalia maritimae) [1330] Mediterranean salt meadows (Juncetalia maritimi) [1410]	Coastal habitats
Baldoyle Bay SPA	km to the	Light-bellied Brent Goose (Branta bernicla hrota)	Wintering coastal waterbirds

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		[A046] Shelduck (Tadorna tadorna) [A048] Ringed Plover (Charadrius hiaticula) [A137] Golden Plover (Pluvialis apricaria) [A140] Grey Plover (Pluvialis squatarola) [A141] Bar-tailed Godwit (Limosa lapponica) [A157] Wetland and Waterbirds [A999]	Coastal habitats
Howth Head SAC	km to the	Vegetated sea cliffs of the Atlantic and Baltic coasts [1230] European dry heaths [4030]	Terrestrial exposed rock and peatland habitats
Ballynafagh Bog SAC	km to the	Active raised bogs [7110] Degraded raised bogs still capable of natural regeneration [7120] Depressions on peat substrates of the Rhynchosporion [7150]	Terrestrial peatland habitats
Red Bog, Kildare SAC	km to the	Transition mires and quaking bogs [7140]	Terrestrial peatland habitats
Ballyman Glen SAC	km to the	Petrifying springs with tufa formation (Cratoneurion) [7220]	Groundwater dependent habitats

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		Alkaline fens [7230]	
Bray Head SAC	km to the	Vegetated sea cliffs of the Atlantic and Baltic coasts [1230] European dry heaths [4030]	Terrestrial exposed rock and peatland habitats
Carriggower Bog SAC	km to the	Transition mires and quaking bogs [7140]	Terrestrial peatland habitats
Glen Of The Downs SAC	km to the	Old sessile oak woods with Ilex and Blechnum in the British Isles [91A0]	Terrestrial woodland habitats
Poulaphouca Reservoir SPA	km to the	Greylag Goose (Anser anser) [A043] Lesser Black-backed Gull (Larus fuscus) [A183]	Winter waterbirds
Dalkey Islands SPA	km to the	Roseate Tern (Sterna dougallii) [A192] Common Tern (Sterna hirundo) [A193] Arctic Tern (Sterna paradisaea) [A194]	Breeding Terns

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4.2 EUROPEAN SITES WITHIN THE ZONE OF INFLUENCE OF THE PLAN

The next step of this Screening Exercise is to identify which, if any, of European Sites listed

in Table 4.1 above occur within the zone of influence of the Plan area.

A source-pathway-receptor model has been used to establish which European Sites could

occur within the zone of influence of potential impacts. Under such a model the elements of

the Plan for which likely significant effects cannot be ruled out represents the source. As

noted above these elements relate to the provision of cycle and pedestrian routes and the

provision of flood defence works.

Potential impacts will have the potential to arise where these elements of the Plan have the

potential to interact with qualifying features of interest/special conservation interests of

European Sites. These interactions may arise as a result of direct impacts to habitats and

species through habitat loss and disturbance or where pathways (such as rivers and streams)

link land use activities associated with these elements to qualifying feature of interest/special

conservation interests.

The receptors represent European Sites and their associated qualifying features of

interest/special conservation interests.

European Sites and their associated qualifying features are likely to occur in the zone of

influence of the project only where potential for the above interactions and pathways

establish a link between the three Plan actions and European Sites. Table 4.2 provides a

determination as to whether each European Site (as listed in Table 4.1) occur within the zone

of influence of the project. This determination has been undertaken in line with the following

assessment questions:

Does the Plan Action have the potential to interact with qualifying habitats?

Does the Plan Action have the potential to interact with qualifying species/special

conservation interest bird species?

• Is there a hydrological pathway linking the Plan Action to European Sites and does

this pathway have the potential to function as an impact pathway?

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Table 4.4.2: Identification of European Sites within the Zone of Influence of the Plan

European Sites	Potential Interaction with Qualifying Habitats	Potential Interaction with Qualifying Species	Potential Hydrological Pathway	Does the European Sites occur within the zone of influence of the Plan?
European Sites within the Plan Area				
Glenasmole Valley SAC	The provision of cycling and walking routes, such as the Dodder Greenway, will have the potential to interact with qualifying habitats of this SAC.	No Annex II species are listed as qualifying features of interest for this SAC.	The Dodder Flood Relief Scheme has been implemented along the River Dodder catchment, in which this SAC is located. However minor flood relief works within this catchment and in the vicinity of this SAC could result in interactions with qualifying habitats of this SAC.	Yes.
Wicklow Mountain SAC	There are no known walking routes or cycling routes proposed within the section of this SAC occurring within South Dublin. Any minor flood works that may be completed in the upper Dodder catchment within this SAC will have the potential to interact with qualifying habitats of this SAC.	Any minor flood works that may be completed in the upper Dodder catchment within this SAC will have the potential to interact with qualifying species of this SAC.	Any minor flood works that may be completed in the upper Dodder catchment within this SAC will have the potential to interact with qualifying species of this SAC.	Yes
Wicklow Mountain SPA	There are no known walking routes or cycling routes proposed within the	Any minor flood works that may be completed in the upper Dodder	Any minor flood works that may be completed in the upper Dodder	Yes

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	section of this SPA occurring within South Dublin. Any minor flood works that may be completed in the upper Dodder catchment within this SPA will have the potential to interact with qualifying habitats of this SPA.	catchment within this SPA will have the potential to interact with qualifying species of this SPA.	catchment within this SPA will have the potential to interact with qualifying species of this SPA.	
European Sites within 15km of the Plan area				
South Dublin Bay SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to directly interact with these habitats.	No Annex II species are listed as qualifying features of interest for this SAC.	The Plan area is located upstream of this SAC but there is no functional hydrological impact pathway connecting the Plan area to this SAC (see).	No
North Dublin Bay SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to directly interact with these habitats.	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying species of this SAC. There will be no potential for the project to directly interact with these species or their habitat.	The Plan area is located upstream of this SAC and works associated with cycling, walking and minor flood relief projects within or adjacent to watercourses will be hydrologically connected to this SAC.	Yes
South Dublin Bay & Tolka Estuary SPA	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the wetland habitats of this SPA.	Any works associated with cycling and walking routes and minor flood works within South Dublin are not likely to be undertaken within areas that are relied upon by the wetland	The Plan area is located upstream of this SPA and works associated with cycling, walking and minor flood relief projects within or adjacent to watercourses will be hydrologically	Yes

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	There will be no potential for the project to directly interact with these habitats	bird species of this SPA. This is due to the absence of suitable coastal habitats within the Plan area to support such species. Given the absence of coastal habitat and the distance between the Plan area and this SPA there will be no potential for the Plan to directly interact with these species.	connected to this SPA	
North Bull Island SPA	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the wetland habitats of this SPA. There will be no potential for the project to directly interact with these habitats	Any works associated with cycling and walking routes and minor flood works within South Dublin are not likely to be undertaken within areas that are relied upon by the wetland bird species of this SPA. This is due to the absence of suitable coastal habitats within the Plan area to support such species. Given the absence of coastal habitat and the distance between the Plan area and this SPA there will be no potential for the Plan to directly interact with these species.	The Plan area is located upstream of this SAC and works associated with cycling, walking and minor flood relief projects within or adjacent to watercourses will be hydrologically connected to this SPA	Yes
Knocksink Woods SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to directly interact with these habitats.	No Annex II species are listed as qualifying features of interest for this SAC.	There are no hydrological pathways connecting the Plan area to this SAC.	No
Rye Water Valley SAC	Any works associated with cycling and walking routes and minor flood	Any works associated with cycling and walking routes and minor flood	There are no hydrological pathways	No

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	works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to directly interact with these habitats.	works within South Dublin will be completed at a remote distance from the qualifying species of this SAC. There will be no potential for the project to directly interact with these species or their habitat.	connecting the Plan area to this SAC.	
Baldoyle Bay SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to directly interact with these habitats.	No Annex II species are listed as qualifying features of interest for this SAC.	There are no hydrological pathways connecting the Plan area to this SAC.	No
Baldoyle Bay SPA	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the wetland habitats of this SPA. There will be no potential for the project to interact with these habitats	Any works associated with cycling and walking routes and minor flood works within South Dublin are not likely to be undertaken within areas that are relied upon by the wetland bird species of this SPA. This is due to the absence of suitable coastal habitats within the Plan area to support such species. Given the absence of coastal habitat and the distance between the Plan area and this SPA there will be no potential for the Plan to interact with these species.	There are no hydrological pathways connecting the Plan area to this SPA.	No
Howth Head SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC.	No Annex II species are listed as qualifying features of interest for this SAC.	There are no hydrological pathways connecting the Plan area to this SAC.	No

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	There will be no potential for the project to directly interact with these habitats.			
Ballynafagh Bog SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to interact with these habitats.	No Annex II species are listed as qualifying features of interest for this SAC.	There are no hydrological pathways connecting the Plan area to this SAC.	No
Red Bog, Kildare SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to directly interact with these habitats.	No Annex II species are listed as qualifying features of interest for this SAC.	There are no hydrological pathways connecting the Plan area to this SAC.	No
Ballyman Glen SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to directly interact with these habitats.	No Annex II species are listed as qualifying features of interest for this SAC.	There are no hydrological pathways connecting the Plan area to this SAC.	No
Bray Head SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC.	No Annex II species are listed as qualifying features of interest for this SAC.	There are no hydrological pathways connecting the Plan area to this SAC.	No

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	There will be no potential for the project to directly interact with these habitats.			
Carriggower Bog SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to directly interact with these habitats.	No Annex II species are listed as qualifying features of interest for this SAC.	There are no hydrological pathways connecting the Plan area to this SAC.	No
Glen Of The Downs SAC	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the qualifying habitats of this SAC. There will be no potential for the project to directly interact with these habitats.	No Annex II species are listed as qualifying features of interest for this SAC.	There are no hydrological pathways connecting the Plan area to this SAC.	No
Poulaphouca Reservoir SPA	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the wetland habitats of this SPA. There will be no potential for the project to directly interact with these habitats	Any works associated with cycling and walking routes and minor flood works within South Dublin are not likely to be undertaken within areas that are relied upon by the wetland bird species of this SPA. This is due to the absence of suitable coastal habitats within the Plan area to support such species. Given the absence of coastal habitat and the distance between the Plan area and this SPA there will be no potential for the Plan to interact with these	There are no hydrological pathways connecting the Plan area to this SPA.	No

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		species.		
Dalkey Islands SPA	Any works associated with cycling and walking routes and minor flood works within South Dublin will be completed at a remote distance from the wetland habitats of this SPA. There will be no potential for the project to directly interact with these habitats	Any works associated with cycling and walking routes and minor flood works within South Dublin are not likely to be undertaken within areas that are relied upon by the wetland bird species of this SPA. This is due to the absence of suitable coastal habitats within the Plan area to support such species. Given the absence of coastal habitat and the distance between the Plan area and this SPA there will be no potential for the Plan to interact with these species.	There are no hydrological pathways connecting the Plan area to this SPA.	No

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Table 4.2 above outlines the relationship between the project site and the European Sites occurring within and in the surrounding 15km buffer area of the Plan area. Of the twenty European Sites occurring within and in a 15km radius of the Plan area, six have been identified as occurring within the zone of influence of the Plan. These European Sites are:

- Glenasmole Valley SAC;
- Wicklow Mountains SAC;
- Wicklow Mountains SPA;
- South Dublin Bay River Tolka Estuary SPA;
- North Dublin Bay SAC; and
- North Bull Island SPA

CONSERVATION OBJECTIVES FOR INTEREST FEATURES OF EUROPEAN 4.3 SITES OCCURRING WITHIN THE ZONE OF INFLUENCE OF THE PROJECT

Generic conservation objectives for all European Sites have been established by the National Parks and Wildlife Service (NPWS). The generic conservation objective for the two habitats occurring within the zone of influence of the project is to maintain the favourable conservation status of these habitats. The favourable conservation status of these habitats is achieved when:

- its natural range, and area it covers within that range, are stable or increasing, and
- the specific structure and functions which are necessary for its long-term maintenance exist and are likely to continue to exist for the foreseeable future, and
- the conservation status of its typical species is favourable.

The generic conservation objective for the qualifying species occurring within the zone of influence of the project is to maintain or restore the favourable conservation status of these species. This is achieved when:

population dynamics data on the species concerned indicate that it is maintaining itself on a long- term basis as a viable component of its natural habitats, and

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- the natural range of the species is neither being reduced nor is likely to be reduced for the foreseeable future, and
- there is, and will probably continue to be, a sufficiently large habitat to maintain its populations on a long-term basis.

4.4 THREATS & PRESSURE TO THE EUROPEAN SITES OCCURRING WITHIN THE PLAN ZONE OF INFLUENCE

Threats and pressures to the European Sites and qualifying features of interest in Ireland have been documented by the National Parks and Wildlife Service at two levels, namely at the European Sites level and at the qualifying feature of interest/ Annex 1 habitat and Annex 2 species level. The threats and pressures to European Sites are documented by the NPWS in the Natura 2000 - Standard Data Forms for each SAC. The Natura 2000 - Standard Data Forms for the South Dublin Bay River Tolka Estuary SPA; North Dublin Bay SAC; and North Bull Island SPA. The threats and pressures to individual habitats and species listed on Annex 1 and Annex 2 of the Habitats Directive have been documented at a national level in Ireland's most recent Article 17 submission to the EU, titled The Status of EU Protected Habitats and Species in Ireland (NPWS, 2013). The threats and pressures identified at the three European Sites occurring with the zone of influence of the project are outlined in Table 4.3 below.

Table 4.3: Threats and Pressures to European Sites occurring within the Zone of Influence of the Plan Area

European Sites	Threats & Pressures
Glenasmole Valley SAC	human induced changes in hydraulic conditions
	'forestry clearance
	• 'forest replanting (non native trees)
	• Fertilisation

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	Grazing
	diffuse pollution to surface waters due to agricultural and forestry activities
	abandonment / lack of mowing
	diffuse pollution to surface waters due to household sewage and waste waters
	invasive non-native species
	 diffuse groundwater pollution due to non- sewered population
	Roads, paths and railroads
	 urbanisation
Wicklow Mountains SAC & SPA	Off-road motorized driving
	Disposal of household / recreational facility waste
	 Damage by herbivores (including game species)
	Grazing in forests/ woodland
	Mountaineering, rock climbing, speleology
	Missing or wrongly directed conservation measures
	Walking, horseriding and non-motorised vehicles
	Invasive non-native species
	• Erosion
	Grazing
	Wildlife watching

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	•	Trampling, overuse,
	•	Stock feeding
	•	Urbanised areas, human habitation
	•	Hunting and collection of wild animals (terrestrial)
	•	Collapse of terrain, landslide
	•	Collection (fungi, lichen, berries etc.)
	•	Vandalism
	•	Outdoor sports and leisure activities, recreational activities
	•	Tree surgery, felling for public safety, removal of roadside trees
	•	Military manoeuvres
	•	Burning down
	•	Paths, tracks, cycling tracks
	•	Peat extraction
	•	Taking from nest (falcons)
North Dublin Bay SAC	•	Urbanised areas, human habitation
	•	Walking, horseriding and non-motorised vehicles
	•	Golf course
	•	Industrial or commercial areas
	•	Discharges

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North Bull Island SPA	Disposal of household / recreational facility waste
	Golf Course
	Industrial or commercial areas
	Walking, horseriding and non-motorised vehicles
	Bridge, viaduct
	Roads, motorways
	Discharges
South Dublin Bay River Tolka Estuary SPA	Walking, horseriding and non-motorised vehicles
	Reclamation of land from sea, estuary or marsh
	Discharges
	Roads, motorways
	Industrial or commercial areas

5.0 LIKELY SIGNIFICANT EFFECTS OF THE PLAN TO EUROPEAN SITES OCCURRING WITHIN ITS **ZONE OF INFLUENCE**

The potential ecological effects of land use activities associated with the provision of cycling and walking routes and flood defence works within the Glenasmole Valley and the Wicklow Mountains SAC and SPA could include:

- Habitat loss and fragmentation;
- Habitat degradation resulting from emissions to surface water;

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Habitat degradation resulting from emissions to groundwater;

Habitat degradation resulting from the spread of non-native invasive species during

works within enterprise zones; and

Disturbance and/or displacement of qualifying species from within or outside

European Sites.

Due to the hydrological pathway linking the Plan area to the three European Sites at Dublin

Bay it cannot be ruled out that:

future work associated with cycling and walking routes and flood defence works

facilitated by the Plan area will not result in such effects; and

that, should such effects occur, they will not result in likely significant effects to the

three European Sites and their associated qualifying features of interest at Dublin

Bay.

5.1 IN-COMBINATION EFFECTS WITH OTHER PLANS & PROJECTS

As part of the Habitats Directive Article 6(3) assessment process consideration must be given

to the potential for the Plan to combine with other plans or projects to result in cumulative

negative effects to European Sites. Given the broad level of detail associated with the Plan's

actions and the potential for land use effects to arise as result of the implementation of actions

associated with cycling, walking and flood defense measures, the potential for the Plan to

combine within other Plans to result in cumulative effects cannot be ruled out. The key plans

for which consideration has been given for potential cumulative effects are listed in Table 5.1

below.

Eastern and Midland Assembly Draft Regional Spatial and Economic Strategy 2018 (RSES)

National Planning Framework 2018 (NPF)

National Mitigation Plan

The Transport Strategy for the Greater Dublin Area, 2016-2035

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Water Services Strategic Plan

Neighbouring County Development Plans

River Basin District Management Plans

CFRAMS Study

Greater Dublin Drainage

The Greater Dublin Transport Strategy 2016-2035

South Dublin County Council Development Plan 2016-2022

South Dublin Heritage Plan 2014-2019

A Strategy towards a Climate Change Action Plan for Dublin 2017

Catchment-Based Flood Risk Management Plans (CFRMP)

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6.0 SCREENING CONCLUSION

The Screening of the proposed SDDCC CCAP as set out above shows that, in the absence of appropriate mitigation measures, it cannot be ruled out that the Plan and future land use measures facilitated by it, will not have the potential to result in likely significant effects to the following European Sites and their qualifying features of interest:

Glenasmole Valley SAC;

Wicklow Mountains SAC:

Wicklow Mountains SPA;

South Dublin Bay River Tolka Estuary SPA;

North Dublin Bay SAC; and

North Bull Island SPA.

Due to the potential risk of such effects occurring following the implementation of the CCAP, it has been concluded that the Plan has the potential to result in significant effects to European Sites. As such, a Natura Impact Report (NIR) is required to inform an Appropriate Assessment of the proposed CCAP.

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7.0 APPENDIX 1: ACTION PLAN SCREENING

	Energy and Buildings	Potential for Land Use Effects
1	Create Energy Master Plan for the Dublin Region	No. This action which calls for the preparation of this Plan will not in itself result in land use effects.
2	Develop Public Lighting Master Plan	No. This action which calls for the preparation of this Plan will not in itself result in land use effects.
3	Prepare South Dublin Sustainable Energy and Climate Action Plan	No. This action which calls for the preparation of this Plan will not in itself result in land use effects.
4	Evidence based Climate Change Chapter in County Development Plan 2022-2028	No. This action which calls for the preparation of this Chapter will not in itself result in land use effects.
5		No. This action which calls for the preparation of this Chapter will not in itself result in land use effects.
6	Comply with obligations for local authorities set under S.I. No. 426/2014	No. Compliance with this legislation will not have the potential to result in adverse land use effects.
7	Display Energy Certificates for SDCC's public buildings	No.
8	Annual Monitoring and Reporting to SEAI	No.
9	Development of yearly Energy Review for SDCC	No.

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No. Development of South Dublin 10 District Heating System No. Deep retrofits of the Council's 11 housing stock Energy efficiency works in Council No. 12 owned and operated buildings Ongoing upgrading of lights in No. 13 County Hall to LEDs Performance Energy Contract No. 14 carried out in Tallaght and Clondalkin Leisure Centres Replace 4,000 SOX lamps with No. 15 **LEDs** Expand and develop Small No. 16 Business Innovation and Research (SBIR) programme Monitor and develop the Home No. Energy Savings Kit scheme in 17 SDCC libraries Assess feasibility of additional low No. 18 carbon district heating networks: Clonburris and Grange Castle Expand housing assistance No. 19 programme to include tenant energy awareness **Transport**

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1	Implement transport energy management system	No.
2	Ongoing replacement of Council vehicles with more energy-efficient alternatives, including EVs	
3	Use mobile canteens with operational crews	No.
4	Promotion of Cycle-to-Work Scheme to Council staff	No.
5	Strengthen traditional villages by improving the public realm through enhancement of green infrastructure measures and sustainable transport linkages	
6	Regular maintenance of regional and local roads	No.
7	Improve road safety at schools with additional school wardens	No.
8	Organised walks to promote healthy lifestyles, i.e. Clondalkin Route	
9	Develop cycle network strategy	No.
10	Build out County Cycle Network	Yes
11	Development of cycle/pedestrian greenways	Yes
12	Increase number of public bike facilities	No.

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Extend BleeperBike public bike scheme	No.
Facilitate the delivery of public transport routes	No.
Cycle training programme for 6th Class students/ pedal power labs	No.
Pilot VMS on Naas road	No.
Expand availability of EV charging points in County	No.
Flood Resilience	
Transpose national legislation and regulations on climate change adaptation and flood management into development guidelines	
Implement flood risk management guidelines	No.
Cross-boundary flood management with neighbouring local authorities	No.
Flood event emergency response plans	No.
Support the development of flood forecasting and warning system	No.
Implement and demonstrate SuDS guidelines in own buildings, SDZs and LAPs	
	Facilitate the delivery of public transport routes Cycle training programme for 6th Class students/ pedal power labs Pilot VMS on Naas road Expand availability of EV charging points in County Flood Resilience Transpose national legislation and regulations on climate change adaptation and flood management into development guidelines Implement flood risk management guidelines Cross-boundary flood management with neighbouring local authorities Flood event emergency response plans Support the development of flood forecasting and warning system Implement and demonstrate SuDS guidelines in own buildings, SDZs

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7	Undertake strategic flood risk assessment of all LAPs, SDZs and Development Plans	
8	Tree planting for water attenuation	No.
9	Develop demonstration sites to show how to combine SuDS/flood attenuation systems with existing land uses	
10	Protect and conserve floodplains, wetlands, rivers and watercourses subject to flooding	
11	Integrated constructed wetlands for water attenuation and purification	No.
12	Develop a climate change impact GIS risk map with scenarios for the Dublin Region	
13	Develop template to capture impacts, response and costs for all major climate events	
14	Establish a Working Group to deal with the Issue of Pluvial Flood Risk. This shall include:	
	How to manage "urban creep" and the increase in impermeable surfaces	
	Promotion of SUDS early in design process	
	Development of pluvial flood forecasting through use of point rainfall forecasting	

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15	Update DLA urban drainage and flooding policies for current knowledge of flood risk and the latest best practice in drainage design promoting natural flood measures as a priority	
16	Risk workshops to assess impacts on council services	No.
17	Whitechurch Flood Alleviation Scheme	Yes. This project is currently being assessed for its potential to result in likely significant effects to European Sites. Given the absence of specific details regarding this project and the hydrological pathway linking this watercourses to European Sites at Dublin Bay the potential for likely significant effects cannot be ruled out at this stage.
18	Poddle Flood Alleviation Scheme	No. Screening for Appropriate Assessment has been completed for this project and the need for Appropriate Assessment has been ruled out.
19	River Camac Flood Alleviation Scheme	No. Screening for Appropriate Assessment has been completed for this project and the need for Appropriate Assessment has been ruled out.
20	maintenance that are designed	Yes. Given the absence of specific details regarding works associated with this action and the presence of three European Sites within the Plan area and the hydrological pathway linking this watercourses to European Sites at Dublin Bay the potential for likely significant effects cannot be ruled out at this stage.
21	Communication and awareness campaigns on flood risk management and natural flood management measures	No.

South Dublin County Council SDCC CCAP Screening for Appropriate Assessment

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22	Promote and encourage community involvement in the retrofit of SuDS in existing developments	
	Nature Based Solutions	
1	Establish regional working group to identify areas and priorities for actions	No.
2	Establish a cross-departmental Trees and SUDS Working Group to promote and pilot water-sensitive urban design (WSUD) incorporating urban tree planting	
3	Workshop to develop Dublin Risk Assessment for nature and climate change	
4	Workshop on NBS, green infrastructure and Sustainable urban Drainage Systems (SuDS)	
5	Produce regional floodplain management guidelines - use Santry River as a demonstration	
6	Finalise draft Biodiversity Action Plan	No.
7	Develop Green Infrastructure Strategy that identifies areas and priorities for green infrastructure and investment	
8	Develop Public Open Space and Parks Strategy that incorporates climate change mitigation and	

South Dublin County Council SDCC CCAP Screening for Appropriate Assessment

Date: Feb 2019
Document Issue: Draft for Consultation

	adaptation	
9	Incorporate natural play space into existing parks for recreation and as SuDS	
10	Implement policies in the development plan avoiding artificial underground storage of attenuation water, where possible, in favour of nature-based solutions	
11	Develop a hedgerow plan for the County, with actions to map, protect and develop hedgerows county-wide	
12	Develop urban woodland management strategy and action plan	
13	Implement Tree Management Policy	No.
14	Increase tree canopy cover in the County through annual planting and maintenance	
15	Develop coordinated regional planning approach to prevent the removal of healthy, established trees	
16	Measure and maintain species diversity in urban tree population	No.

South Dublin County Council SDCC CCAP Screening for Appropriate Assessment

Date: Document Issue: Consultation

Feb 2019 Draft for

17	Develop and promote establishment of tree trails in public parks across the County	No.
18	Develop demonstration projects for successful planting and establishment of trees in urban hardscapes	No.
19	Provide opportunities for community engagement, involvement and activities to raise awareness	No.
20	Review and climate-proof Biodiversity Action Plan, Invasive Alien Species Plan, and Tree Management Policy	
21	Develop list of species native to County and map of habitats that are at risk for use in EIAs	
22	Include native species into plans where appropriate	No.
23	Survey, map and implement control plan of invasive species	No.
24	Incorporate actions from national pollinator plan into Green Infrastructure Strategy	
25	Manage and monitor identified 'Pollinator Protection sites'	No.

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South Dublin County Council SDCC CCAP Screening for Appropriate Assessment

Date: Document Issue: Consultation

Feb 2019 Draft for C

Maintain and expand community gardens and allotments for local food production	
Support local communities with biodiversity education	No.
Sustainable gardening workshops	No.
Develop demonstration sites to show how to combine nature conservation with existing land uses	
Deliver green roofs on civic buildings	No.
Maintain and increase Green Schools Programme participation	No.
Engage with residents and relevant stakeholders on climate change and biodiversity to incorporate their ideas into council strategies and plans	
Assess the benefit of increasing buffer distance of 10m from water courses to protect biodiversity and provide greater flood attenuation for distances of 20m, 50m and 100m	No.
Resource Management	
Monitor and enforce waste regulation	No.
	gardens and allotments for local food production Support local communities with biodiversity education Sustainable gardening workshops Develop demonstration sites to show how to combine nature conservation with existing land uses Deliver green roofs on civic buildings Maintain and increase Green Schools Programme participation Engage with residents and relevant stakeholders on climate change and biodiversity to incorporate their ideas into council strategies and plans Assess the benefit of increasing buffer distance of 10m from water courses to protect biodiversity and provide greater flood attenuation for distances of 20m, 50m and 100m Resource Management Monitor and enforce waste

South Dublin County Council SDCC CCAP Screening for Appropriate Assessment

Date: Document Issue: Draft for Consultation

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2	Introduce measures to reduce waste in Council buildings	No.
3	Introduce measures to increase recycling in Council buildings	No.
4	Civic amenity waste stations	No.
5	Apply for Local Authority Prevention Network grants	No.
6	Create Stop Food Waste campaign for businesses and schools	No.
7	Promote Eco-Week	No.
8	Promote Re-Use Month annually	No.
9	Use €co-Merit programme to advise businesses on reducing waste	No.
10	Recycling Ambassador Programme	No.
11	Reduce single-use plastics at Council organised events	No.
12	Ongoing support of the Conscious Cup Campaign / promotion of reusables over disposables	
13	Ongoing Support of the Small Business Innovation Research (SBIR) for illegal dumping	
14	Run anti-dumping/anti-litter campaigns	No.

South Dublin County Council SDCC CCAP Screening for Appropriate Assessment

Date: Document Issue: Consultation

Feb 2019 Draft for

15	Waste Prevention Fund	No.
16	Introduce measures to reduce waste and increase recycling	No.
17	Provide more glass recycling in public realm	No.
18	Introduce leaf composting programme	No.
19	Support and promote tidy towns initiatives in County	No.
20	Examine the potential of Arthurstown landfill for development of green energy uses	No.
21	Implement water conservation campaign in civic buildings	No.
22	Identify pilot locations for water access points	No.
23	Trial of low-flush toilets in Council headquarters and social housing	No.
24	Research feasibility of rainwater harvesting in Council buildings	No.







CHIEF EXECUTIVE'S REPORT ON SUBMISSIONS RECEIVED

SOUTH DUBLIN COUNTY COUNCIL

DRAFT CLIMATE CHANGE ACTION PLAN 2019-2024

MAY 2019

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1 Introduction

1.1 Purpose of the Report

South Dublin County Council has prepared a Draft Climate Change Action Plan 2019-2024. The Draft Climate Change Action Plan sets out how the Council will improve energy efficiency and reduce greenhouse gas emissions in its own buildings and operations, while making the South Dublin County Council area more adaptive to the impacts of climate change. The Draft Plan includes a range of actions across five key action areas, Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management.

The Council undertook public consultation from Monday 11th February to Monday 25th March 2019. A total of 73 valid submissions were received.

This Chief Executive's Report summarises and details the outcome of the public consultation programme on the Draft Climate Change Action Plan and contains the following:

- lists the persons or bodies who made submissions or observations on the Draft Climate Change Action Plan;
- summarises the issues raised by the persons or bodies in the submissions or observations; and
- gives the response and recommendation of the Chief Executive to the issues raised.

This Chief Executive's Report on the Draft Climate Change Action Plan Public Consultation is hereby submitted to the members of South Dublin County Council for consideration.

1.2 Background

Ireland's first statutory National Adaptation Framework (NAF) was published in January 2018. This sets out the national strategy to reduce the vulnerability of the country to the negative effects of climate change and to avail of positive impacts. The NAF was developed under the Climate Action and Low Carbon Development Act 2015. The NAF outlines a whole of government and society approach to climate adaptation in Ireland. Under the NAF a number of Government Departments are required to prepare sectoral adaptation plans in relation to a priority area for which they are responsible. Under the NAF, each Local Authority is also required to make a local adaptation strategy by 30th September 2019.

In the Dublin Metropolitan Region, the four Dublin Draft Climate Change Action Plans have been prepared in partnership with Codema (Dublin's Energy Agency), following extensive and ongoing engagement with South Dublin County Council, and the other Dublin local authorities, throughout 2017/2018. The Draft Climate Change Action Plans address both climate change mitigation and adaptation. This is a result of the following: the Dublin local authorities are signatories to the EU Covenant of Mayors for Climate & Energy, which address both climate change adaptation and mitigation, and the significant experience of Codema in developing mitigation baseline emission inventories and the completion of a Spatial Energy Demand Analysis for the four Dublin local authorities and related mapping outputs.

1.3 Public Consultation

Public consultation on the Draft Climate Change Action Plan took place over a six-week period from Monday 11th February to Monday 25th March 2019, with 73 valid submissions received in total.

In addition, and in accordance with the Planning and Development (Strategic Environmental Assessment) Regulations 2004 to 2011, as amended, and Habitats Directive 92/43/EEC, a Strategic Environmental Assessment (SEA) Environmental Report and an Appropriate Assessment Natura Impact Statement, were also on public display.

2 Details of the Public Consultation Process

2.1 Objectives of the Public Consultation Process

The objectives of South Dublin County Council's draft Climate Change Action Plan 2019-2024's public consultation process were as follows:

- Increase awareness of the draft Climate Change Action Plan 2019-2024 for the general public, various stakeholders, prescribed bodies and SDCC staff
- Provide opportunities for more creative and dynamic engagement with a variety of interested parties, including younger citizens, older citizens and locally based community and residents' groups
- Increase the number, variety and quality of submission received, appropriate to the draft Climate Change Action Plan
- Encourage longer term engagement strategies beyond the draft Climate Change Action Plan stage and scope follow up activities
- To align with South Dublin County Council External and Internal Communication Strategy objectives
- To align with the public consultation objectives of the other Dublin Local Authorities and Codema

2.2 Outline of the Public Consultation Process

Article 13(2)(A) of the European Communities (Environment Assessment of Certain Plans and Programmes) Regulations 2014, SI 435/2004, as amended sets out that a competent authority shall publish notice of the preparation of a Strategic Environmental Assessment (SEA) Environmental Report and an Appropriate Assessment (AA) Screening Report in at least one newspaper with a sufficiently large circulation in the area covered by the plan and that a copy of the plan and report may be inspected at a stated place or places, at stated times during a stated period of not less than 4 weeks from the date of the notice. These are the statutory obligations with regard to public consultation. South Dublin County Council has exceeded its statutory obligations with regard to public consultation for the draft Climate Change Action Plan 2019-2024, and has used a variety of events, on line and supporting 'face to face' methods to consult and engage with citizens of South Dublin County and a range of other stakeholders and interested parties.

The draft Climate Change Action Plan 2019-2024 public consultation process involved the following key elements:

- A promotional event was held on Tuesday 19th February, 2019, in County Hall the official launch of South Dublin County Council's draft Climate Change Action Plan
- A promotional event was held on Saturday 16th February, 2019, in the Round Room at The Mansion House, Dawson Street, the official launch of the dedicated website www.dublinclimatechange.ie and the promotional video
- 4,000 individual users accessed <u>www.dublinclimatechange.ie</u> since it was launched until the public consultation period ended (11th Feb – 25th Mar 2019)
- A strategic Social Media campaign over Twitter, Instagram, LinkedIn and Facebook was carried
 out over the six week public consultation period using the #Councils4ClimateAction, proving
 to be hugely effective. Total impressions of posts by South Dublin County Council's

- Communications Unit amounted to 148,657. Total engagement which includes likes, retweets and comments amounted to 2,346
- Codema acted as the central liaison point between all four Councils Communications teams and together a central message was formed around the plans and the 'make a submission' call to action
- A newspaper noticed appeared in The Irish Times on 11th February 2019. The same notice appeared in local newspapers; the Gazette and Echo's on 14th February 2019. A copy of the Newspaper notice is contained in Appendix B
- Press releases were issued by the four DLA's and Codema in the run up to the public consultation period opening and the public events, resulting in widespread national and local media coverage such as the Irish Times, RTE Television Six-One and Nine O'Clock News Bulletins, Virgin Media One News Bulletins, RTE Radio 1 and Newstalk 106-108 fm
- Codema developed a generic information leaflet (2,000 copies printed) and event programmes (500 copies printed each) for the #Councils4ClimateAction events. This material helped to provide information on the Plans and to promote what was taking place at each of the events. These leaflets were widely available online to help spread the word and cut down on the need for printed copies
- Leaflets were distributed to all libraries and county buildings
- Briefings for elected members took place at all the Area Committee Meetings in early February 2019
- Public Consultation displays were available electronically at County Hall, Tallaght, Clondalkin Civic Offices and all of South Dublin County Council Libraries via the Council's dedicated Public Consultation Portal
- Public Consultation displays were available at Clondalkin Civic Offices and all South Dublin County Council Libraries
- In addition to the promotional event in County Hall there were three public information sessions took place in Tallaght Library, Clondalkin and Ballyroan Libraries
- A briefing took place with the Public Participation Network (PPN)



Figure 2.1: Photographs from County Hall Public Event 19-02-2019 hosted by South Dublin County Council



Figure 2.2: Photographs from the Library Public Consultations

2.3 Public Information Events

During the public consultation period, one evening Public Information Event, held on 19th February 2019, in County Hall, was undertaken together with members of the Climate Action Team, relevant departments of South Dublin County Council and Codema, were in attendance to answer the public's queries. This event required attendees to register on Eventbrite.ie where 78 people registered prior to the event. An equal number of people, 78, availed of the registration at the door. It was estimated that there were over 120 people in total who attended this event.

External stakeholders attended this event to provide information to attendees, SEAI (Energy), Go Car, Cycle Superstore, Nissan (Transport) and Stop Food Waste/ EPA Master Composters (Resource Management).

Three further Public Information Sessions were undertaken with members of the Climate Action Team in attendance to answer the public's queries, as follows:

Venue	Date	Time	
Lucan Library	26Feb19	9.45-13.00	
Ballyroan Library	27Feb19	9.45-13.00	
Tallaght Library	01Mar19	9.45-13.00	

Attendees at the events were participating as individuals but mostly on behalf of a local group for example, tidy towns associations, residents associations, or other organisations.

2.4 Engagement with Young People

All schools and most sporting organisations and young people groups in the functional area of South Dublin County Council were invited to the promotional event held in County Hall on 19th February 2019, it was unfortunate that this date clashed with school holidays.

Comhairle ná nÓg and Beaver Scouts from 103rd Dublin troop from Templeogue representing Scouting Ireland were in attendance.

3 Details of Submissions

3.1 Introduction

A total of 73 valid submissions were received, the breakdown of submissions are as follows:

Table 3.1: Overview of Submissions

On line Portal Submissions	36
Email Submissions	30
Posted/ Hand Written Submissions	7
Total Submissions	73

All submissions were read analysed and summarised. A list of the persons, organisations and bodies that made submissions is provided in Appendix A, an overview of the subjects raised is provided in Section 3.3. The categorisation and summary of subjects raised, together with the Chief Executive's response and recommendations is contained in Section 5.0.

Note: The headings relating to the categorisation and summary of issues raised, together with the Chief Executive's response and recommendations, follows that of the headings of the draft Climate Change Action Plan document.

3.2 List of Persons, Organisations and Bodies who made Submissions

Appendix A lists the persons, organisations and bodies that made written submissions. Each submission has been assigned an independent reference.

3.3 Summary of Issues Raised in Submissions

There were 73 submissions in total received for the South Dublin County Council draft Climate Change Action Plan 2019-2024, all 73 valid submission received by the Council were read and analysed. They translated into 246 items of submissions on the Milestones to be considered, the majority targeting the Action Areas. An analysis of the submissions has been carried out and the topics and issues raised have been extracted and categorised according to the Action Areas.

Each of the Action Area headings together with the number of times that issues were raised in relation to each section is detailed below. A submission may raise multi subjects and they are separated and appear as separate entries in the appropriate action area.

Many submissions were made to each of the Dublin Local Authorities but some to individual LAs only. While each plan is unique to its functional area a unified approach was taken to responding to submissions that were appropriate and regionalised.

4 Chief Executive's Responses

The Chief Executive has prepared a response and recommendation under the relevant Section of the draft Climate Change Action Plan. The listing and format of the Categorisation, Summary and Responses to issues raised, follows the document structure of the draft Climate Change Action Plan.

4.1 Strategic Environmental Assessment (SEA) and Appropriate Assessment (AA)

A Strategic Environmental Assessment (SEA) Environmental Report and an Appropriate Assessment (AA) Natura Impact Statement accompanied the public display of the Draft Climate Change Action Plan. The Chief Executive's report on submissions received includes a summary and consideration of all submissions on these documents and / or the SEA / AA process. In addition, any amendments proposed arising from the Chief Executive's recommendations have been screened for the purposes of SEA and AA. Where no amendments to the Draft Plan are proposed, these recommendations have also been screened for the purposes of SEA and AA.

The Elected Members shall have regard to the Strategic Environmental Assessment (SEA) Environmental Report, and any submissions made during the consideration of the Draft Climate Change Action Plan and before its approval. This is in accordance with the Planning and Development (Strategic Environmental Assessment) Regulations 2004 to 2011, as amended.

The Elected Members shall give consent for the CCAP only after having determined that the plan shall not adversely affect the integrity of a European Site (s) in line with SI 477 (EU Birds and Natural Habitats) Regulations 2011.

A SEA Screening Determination and AA Screening Determination are included in this Chief Executive's report, see Appendix C.

4.2 Structure of the Report

Amendments to the text of the draft Climate Change Action Plan are identified by their location with in the draft Plan, i.e. Introduction – The National Context – Ireland

Additions to the text are identified through the use of green text, for example:

The implementation, monitoring and future updates of the Climate Change Action Plan will be consistent with, and have regard to the Oireachtas 'Climate Change: a cross-party consensus on climate action' report (March 2019) and the Whole of Government Climate Action Plan.

Deletions to the text are shown in red with strikethrough, for example:

Use Eco Merit programme to advise businesses on reducing waste

5 Categorisation, Summary and Responses to Issues Raised

5.1 Executive Summary

There were 73 submissions in total received for the South Dublin County Council draft Climate Change Action Plan 2019-2024, many submissions were made to each of the Dublin Local Authorities but some to individual LAs only. While each plan is unique to its functional area a unified approach was taken to responding to submissions that were appropriate and regionalised.

Some dealt with penalising single use plastics, chemical cleaning products, and cheap flights, and taxing food imports and high emission foods whilst subsidising local foods. Reductions in parking spaces were suggested and more EV and non-fossil fuel vehicle charging points. A submission sought for upgrades to Social Homes. Several sought to have conditions imposed through Planning on energy efficiency and also on the impact planning policy can have on reducing unnecessary travel. There were requests for more solar bins, recycling bins, signage on these bins and recycling initiatives. Alternatives to flood walls should be investigated and European models should be considered. Reference was made to Green mortgages, the Home Performance Index and the two baskets approach to emissions reduction and there should be links with sustainable businesses. An online dashboard should be developed.

Chief Executive's Response:

The submissions to this Chapter that are within the scope of the Plan are covered in either the main chapters: Energy and Buildings; Transport; Flood resilience: Nature based Solutions; Resource Management or in the General Comments Chapter.

5.2 Introduction

Public education was mentioned in the submissions received regarding this section as was retrofitting. The encouragement of green mortgages and consideration of carbon impact in procurement was raised as was a suggestion that the LEO link with sustainable businesses. Renewable sources including district heating and solar were the subject of some submissions and feed in tariffs were linked to these. A submission seeking consideration of food waste, campaigns around this, consideration of the carbon footprint of imports and the encouragement of local food was made. The use of Libraries was suggested for repair cafes, transport groups and air quality information. Consideration of roof gardens and pollinators was also included in submissions.

There were submissions seeking the enactment of the Citizen Assembly recommendations and linking with National Climate Action Policies.

Chief Executive's Response:

The submissions to this Chapter that are within the scope of the Plan are covered in either the main chapters: Energy and Buildings; Transport; Flood resilience: Nature based Solutions; Resource Management or in the General Comments Chapter.

5.3 Milestone 1: Initiate

5.3.1 Submissions regarding planning holistically for the wider climate change agenda, urban sustainability and quality of life for all citizens, wildlife and biodiversity in Dublin.

The Draft CCAP has been prepared to demonstrate the Council's commitment to addressing climate change across its own buildings, facilities and operations. The action areas in the Draft CCAP have been organised into the five key areas of Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management. These areas reflect the Council's primary remit, with the aim of fostering greater collaboration across various Council departments. It is the aim of the Council to develop and implement actions that can be replicated by citizens, businesses, and other stakeholders. It is the aim of Council to contribute to the wider sustainable development of the county, by informing and updating citizens through CCAP actions that raise awareness of climate issues and solutions, that will facilitate wider projects and initiatives that contribute towards county-wide greenhouse gas emissions reduction and enhancing resilience to the impacts of climate change. This strategic approach will be of benefit to all citizens, wildlife and biodiversity in Dublin.

With regard to the wider holistic development of the county, it is noted that the CCAP will be reflected in a range of other plans and strategies made and adopted by the Council into the future, including the County Development Plan, Corporate Plan, Local Economic and Community Plan (LECP) etc. These plans provide an opportunity for further integration of climate change action across Dublin and the enhancement of a cross-sectoral approach to building the sustainability of Dublin City and County for future generations.

It is considered that the submissions pertaining to interaction between the Draft CCAP, the climate change agenda and wider sustainability issues are adequately addressed in the Draft Plan.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

Strategic Environmental Assessment (SEA) Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

Appropriate Assessment (AA) Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.3.2 Submissions regarding implementation, efficiency and testing of the CCAP

The CCAP will be updated on an annual basis, with a review and revision every five years. At each revision the updated CCAP will take account of demographic, technical and other changes that have occurred and any new targets that have been introduced.

It is considered that the implementation, monitoring and iteration of the CCAP is adequately addressed in the Draft Plan.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.3.3 Submissions were received relating to wider engagement between local authorities internal and external to the Dublin region.

Regarding ongoing engagement between local authorities internal and external to the Dublin region, it is noted that the development and implementation of the CCAP, will be supported by both Codema and the Dublin Climate Action Regional Office, which involve interaction between the four Dublin local authorities. Codema will provide ongoing support to the CCAP in the areas of research, planning, technical assessment, cost benefit analysis, procurement, project management, funding applications and communications. The Dublin CARO will work with all four Dublin local authorities in implementing CCAP actions, including developing research opportunities and pilot project across the four Dublin local authorities. The CARO will also have a role in reviewing action implementation across the four Dublin local authority CCAPs. There are a number of other regional structures such as the Eastern & Midland Regional Assembly (EMRA), Eastern - Midlands Waste Regional Office and the Local Authority Waters Programme whereby ongoing engagement with other local authorities on climate change issues can be facilitated.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.4 Milestone 2: Research

5.4.1 Submissions regarding the science of climate change, support for renewable energy projects, public authority leadership, CCAP iteration, and developing best practice.

Submissions relate to the science and evidence base behind climate change and the Draft CCAP. The Draft CCAP Introduction outlines the policy and legislative context under which the Plan has been prepared. At an international level, the Plan has been prepared in line with the Conference of the Parties (COP21) Paris Agreement. This legally binding, global agreement sets out a long-term goal to put the world on track to limit global warming to well below 2 degrees centigrade above pre-industrial levels, and to pursue efforts to limit the temperature increase to 1.5 degrees. The Draft CCAP has also been prepared to respond to the findings of the Intergovernmental Panel on Climate Change (IPCC) Report on Global Warming of 1.5 °C, published in October 2018. At a national level the Draft CCAP has been prepared in accordance with relevant national legislation and policy including the Climate Action and Low Carbon Development Act 2015, National Mitigation Plan and National Adaptation Framework and Project Ireland 2040. The Draft Plan has also been prepared in accordance with the Local Authority Adaptation Strategy Development Guidelines, published in December 2018.

To inform the Action Areas, the Draft CCAP includes detailed climate change adaptation and baselines. The adaptation baseline has been prepared using a variety of sources, in particular Met Éireann data the Council's own extreme weather events records. This robust evidence based informed the future risk matrix included in the Draft CCAP. The mitigation baseline has been prepared using the Council's own energy consumption data, which is used to undertake the annual Sustainable Energy Authority of Ireland (SEAI) Monitoring & Reporting (M&R).

On this basis and having regard to submissions received relating to the science and evidence based behind climate change, it is considered that the Draft CCAP has been prepared have regard to the appropriate and consensus-based policy, legislative and baseline information.

With regard to leadership of the public sector and local authorities, it is the function of the Draft CCAP to outline actions that will directly improve the Council's own energy efficiency and reduce greenhouse gas emissions in its own buildings and operations, and Council led actions that aim to make South Dublin a more climate resilient county. The Draft Plan includes a range of ongoing and planned actions, across Council departments, including actions relating to renewable energy projects. Having regard to supporting other renewable energy projects including hydropower, solar etc., these are primarily supported by the Council, by way of the policies and objectives included in the County Development Plan and other plans and strategies.

Submissions relate to the future iterations of the CCAP. In the Draft CCAP Milestone 4 relates to Implementation and Milestone 5 relates to Monitoring and Iteration. The Council has established a cross-departmental Climate Team who will be responsible for implementing the actions included in the CCAP. The development and implementation of CCAP actions will be supported by both Codema and the Dublin Climate Action Regional Office. Codema will provide ongoing support to the CCAP in the areas of research, planning, technical assessment, cost benefit analysis, procurement, project management, funding applications and communications. The Dublin CARO will work with all four Dublin local authorities in implementing CCAP actions, including developing research opportunities and pilot project across the four Dublin local authorities. The CARO will also have a role in reviewing action implementation across the four Dublin local authority CCAPs.

The CCAP will be updated on an annual basis, with a review and revision every five years. At each revision the updated CCAP will take account of demographic, technical and other changes that have

occurred and any new targets that have been introduced. As the Council is a signatory to the EU Covenant of Mayors for Energy and Climate, this CCAP will be submitted to the Covenant to fulfil participation protocols. This commitment initiates the beginning of a long-term process, whereby the Council will be committed to reporting every two years to the Covenant of Mayors, on the implementation progress of the Plan. Participation in the Covenant of Mayors will also facilitate access to best practice project and benchmarks of excellence initiatives across Europe.

In implementing and monitoring the CCAP, the Council will adhere to current best practice guidelines in this area, namely The Covenant of Mayors for Climate and Energy Reporting Guidelines. This includes monitoring actions with regard to staff resourcing, action budget allocation, stakeholder and citizen engagement, CO2 emissions reduction etc.

Having regard to submissions received, it is considered that these matters are adequately address in the Draft CCAP.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.5 Milestone 3: Plan

5.5.1 Submissions regarding CCAP development, outlook and implementation, CCAP targets, addressing climate change in other sectors, and reference to wider climate change reports.

The National Adaptation Framework (NAF) was published in January 2018. This sets out the national strategy to reduce the vulnerability of the country to the negative effects of climate change and to avail of positive impacts. The NAF was developed under the Climate Action and Low Carbon Development Act 2015. The NAF outlines a whole of government and society approach to climate adaptation in Ireland. Under the NAF a number of Government Departments are required to prepare sectoral adaptation plans in relation to a priority area for which they are responsible. A further requirement of the NAF, each Local Authority is also required to make a local adaptation strategy by 30th September 2019. Accordingly, each of the four Dublin local authority has prepared a Draft Climate Change Action Plan, once approved by the Council, will be submitted to the Department of Communications, Climate Action and Environment.

With regard to CCAP targets, it is noted that the Draft CCAP has been prepared to address the following specific climate change targets:

- A 33% improvement in the Council's energy efficiency by 2020; and
- A 40% reduction in the Council's greenhouse gas emissions by 2030

In Ireland, the public sector has mandatory energy efficiency targets. It is set in the context of Ireland's EU and national commitments and wider climate change goals, whereby a target of 33% energy efficiency improvement is to be achieved by all Irish public bodies (as defined in Statutory Instrument 426 of 2014) by 2020. Public bodies are required to report annual energy efficiency data to the Sustainable Energy Authority of Ireland (SEAI) which manages the reporting process on behalf of the Department of Communications, Climate Action and Environment (DCCAE). There is currently no statutory requirement to undertake sectoral mitigation plans, including revised sectoral, local authority emissions reduction targets.

Being a signatory to the EU Covenant of Mayors for Climate & Energy, the Council has voluntarily committed to a 40% reduction in the Council's greenhouse gas emissions by 2030. Across Europe, signatory cities pledge action to support implementation of the EU 40% greenhouse gas-reduction target by 2030 and the adoption of a joint approach to tackling mitigation and adaptation to climate change.

With regard to CCAP outlook and implementation, the Council has established a cross-departmental Climate Team who will be responsible for implementing the actions included in the CCAP. The development and implementation of CCAP actions will be supported by both Codema and the Dublin Metropolitan Climate Action Regional Office. Codema will provide ongoing support to the CCAP in the areas of research, planning, technical assessment, cost benefit analysis, procurement, project management, funding applications and communications. The Dublin CARO will work with all four Dublin local authorities in implementing CCAP actions, including developing research opportunities and pilot project across the four Dublin local authorities. The CARO will also have a role in reviewing action implementation across the four Dublin local authority CCAPs. The CCAP will be updated on an annual basis, with a review and revision every five years.

With regard to addressing climate change in other sectors, it is the function of the Draft CCAP to outline actions that will directly improve the Council's own energy efficiency and reduce greenhouse gas emissions in its own buildings and operations, and Council led actions that aim to make South

Dublin a more climate resilient county. In this regard, the Draft CCAP includes Action Areas across five thematic areas: Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management. The Draft Plan includes a range of ongoing and planned actions, across Council departments, that will be continuously monitored, evaluated and updated to 2030 and beyond, with the support of Codema, the Dublin Climate Action Regional Office and other relevant stakeholders. Where relevant and appropriate, the actions in the Plan also have the scope to be replicated across other sectors, including the private sector.

Submissions relating to wider climate change reports are noted. At each revision of the CCAP, the updated Plan will take account of demographic, technical and other changes that have occurred and any new targets that have been introduced; this will include having regard to wider climate change reports and publications, as relevant and appropriate.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.6 Actions on Energy and Buildings

19 actions are outlined under the theme of Energy and Buildings in South Dublin County Councils Climate Change Action Plan 2019-2024. 19 submission items were received to the main Energy and Buildings chapter whilst a number of additional submissions were made throughout the other more general chapters. There are 8 new actions as a result of submissions with some new text also clarifying or expanding on issues raised in the submissions.

5.6.1 Submissions Regarding Energy Planning and Management: Review of Targets

- 1. 33% efficiency target. When I first began reading the draft, I was curious to know if the efficiency target amounted to 'savings from efficiency' i.e. reduction in absolute amount of energy use because of efficiency measures. I assumed it was as the only country I know still using per capita or per euro (energy intensity) indicators as their targets for efficiency is China. Although such targets show that energy intensity is reducing, total energy use can continue to increase. I was shocked to see that the SDCC target is based on KWh/Population. Notwithstanding that you consider that people would not understand the word 'capita' or at least use the word 'person', this is a very weak target given how essential it is to have 'savings from efficiency'. The EU 2020 targets include a 20% reduction in energy use as compared to a baseline project. The problem with SDCC using the KWh/capita indicator is that it allows total energy use of the council to increase. It thus renders it a weak target and one must question if this target was deliberately chosen so as to allow energy use to increase. This should be clarified. (SDCC-CCAP-201902-28)
- Greenhouse Gas Emissions in preparing the Plan and SEA, the direct and indirect impacts of the Plan on greenhouse gas emissions and removals should be assessed. The Agency's most recent projections report Ireland's Greenhouse Gas Emissions Projections for 2017-2035 (EPA, 2018) should be taken into account. (SDCC-CCAP-201902-42)

As well as submission to SDCC a number of submissions to the other Dublin Local Authorities request a review of energy targets to be included in the Draft CCAP. The Draft CCAP has been prepared to address the following specific climate change targets:

- A 33% improvement in the Council's energy efficiency by 2020; and
- A 40% reduction in the Council's greenhouse gas emissions by 2030.

Chief Executive Response to Grouping: Energy Planning and Management: Review of Targets

In Ireland, the public sector has mandatory energy efficiency targets. It is set in the context of Ireland's EU and national commitments and wider climate change goals, whereby a target of 33% energy efficiency improvement is to be achieved by all Irish public bodies (as defined in Statutory Instrument 426 of 2014) by 2020. Public bodies are required to report annual energy efficiency data to the Sustainable Energy Authority of Ireland (SEAI) which manages the reporting process on behalf of the Department of Communications, Climate Action and Environment (DCCAE). SEAI have just announced that they will be releasing a 2030 target later on this year in conjunction with other upgrade measures they are doing to the system and the Council will reflect any changes in their own targets as required. The target base year is not linked to capita or persons. There is currently no statutory requirement to undertake sectoral mitigation plans, including revised sectoral, local authority emissions reduction targets.

Being a signatory to the EU Covenant of Mayors for Climate & Energy, the Council has voluntarily committed to a 40% reduction in the Council's greenhouse gas emissions by 2030. Across Europe, signatory cities pledge action to support implementation of the EU 40% greenhouse gas-reduction target by 2030 and the adoption of a joint approach to tackling mitigation and adaptation to climate change.

The Government has published the Draft National Energy & Climate Plan 2021-2030 (NECP). This first draft of the NECP takes into account energy and climate policies developed to date, the levels of demographic and economic growth identified in the Project 2040 process and includes all of the climate and energy measures set out in the National Development Plan 2018-2027. It is the first step in the process of putting together the final National Energy and Climate Plan and further iterations of the plan will take into account additional policies and measures and the All-of-Government climate action plan to be completed in 2019. A final version of the NECP will be submitted to the European Commission by 31st December 2019.

In March 2019, the Oireachtas published its 'Climate Change: a cross-party consensus on climate action' report. The report recommends that new legislation be enacted by the Oireachtas, providing a new legal framework for tackling climate change. The report states that this should include the setting of legally binding GHG emissions targets for mitigation and renewable electricity for 2030 and 2050, reflecting the latest IPCC consensus and the need for Ireland to make immediate progress in meeting existing EU emissions reductions 2030 targets.

The Climate Action and Low Carbon Development Act 2015 and National Adaptation Framework require sectoral adaptation/climate change action plans to be submitted to Government for approval by 30th September 2019. The Climate Action and Low Carbon Development Act 2015, the National Mitigation Plan and the National Adaptation Framework, do not require additional public sector climate change targets to be implemented.

In summary, the Council will commit to review the energy and GHG emission targets following any revisions to these targets nationally as local authorities in Ireland have no statutory role in setting energy and climate change targets. It is considered that the identification of additional local authority energy and climate change targets is not appropriate at this stage, is pre-mature in advance of any revised national legislation in this regard, and; therefore, should not be included in the Draft CCAP. This matter should be primarily addressed at a national level, in advance of addressing such issues at a local authority level.

Chief Executive's Recommendation

The following additional new actions are proposed to the draft CCAP

New Actions:

Action: The Council Energy Review (mid 2019) and going forward, will include a glide path illustrating the energy efficiency and GHG emission targets for the Council up to and including 2030.

Action: Appendix II: Total Emissions in South Dublin of the CCAP, will also be updated every two years in accordance with EU Covenant of Mayors for Climate & Energy protocol.

SEA Comment

These two actions as recommend will provide information on the energy efficiency and targets through diagrams (glide path) as well as biannual updates of total emissions. These in and of

themselves do not give rise to landuse effects. No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

These two actions as recommend will provide information on the energy efficiency and targets through diagrams (glide path) as well as biannual updates of total emissions. These in and of themselves do not give rise to landuse effects and will not have the potential to result in likely significant effects to European Sites.

5.6.2 Submissions Regarding Energy Performance of Public/Private Buildings

Many submissions were received on this topic by the other Dublin Local Authorities requesting Councils to have an expanded remit in addressing the energy performance and design criteria of nonpublic sector buildings, including private residential, commercial and industrial buildings. It is noted that the energy efficiency and renewable energy requirements for the construction of new homes and non-residential buildings are primarily addressed in the current Building Regulations Part L and the nearly Zero Energy Buildings (nZEB) standard. The European Energy Performance of Buildings Directive Recast 2010 (EPBD) requires all new buildings to be nearly Zero Energy Buildings (nZEB) by 31st December 2020, and all buildings acquired by public bodies by 31st December 2018. Regarding nonresidential buildings, all buildings are required to use up to 60% less energy than allowed under current regulations, plus a requirement for up to 20% of this final demand to be met with renewables, including solar. With regard to residential buildings, any dwelling receiving planning permission after 1st April 2019, should meet the nZEB standard. Substantial completion must have been achieved by 1st April 2020. After 2020 all homes irrespective of when they received planning permission should achieve the new standard. Accordingly, it is not within the remit of the Draft CCAP to introduce additional building standards that would serve to duplicate or exceed the requirements of the European Energy Performance of Buildings Directive.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.6.3 Submissions Regarding Mandating Roofs on New Buildings to include Renewable Energy Technologies / Green Roofs

1. Ensure all new domestic builds are A rated - have policy to back this up. All new industrial buildings to have solar or green roofs. (SDCC-CCAP-201902-11)

- Install solar pv on all public buildings please save money, increase local, secure energy, while being a leader. Look at Tipp CoCo and their work with TEA. Dare you go even further? (SDCC-CCAP-201902-11)
- 3. Has solar energy been considered? (SDCC-CCAP-201902-13)

Chief Executive Response to Grouping: Mandating Roofs on New Buildings to include Renewable Energy Technologies / Green Roofs

As standard all of the Councils new build social housing stock are fitted with solar photovoltaic (PV) panels. In addition, 188 solar PV panels have now been connected on the roof of County Hall, which will continue to reduce the electrical load of the building.

A number of submissions received also relate to mandating roofs on all new buildings to include renewable energy technologies and use as green roofs / green spaces. Submissions also request the prioritisation of south facing aspect for new dwellings, that current building regulation standards be exceeded, and the requirement for new buildings to have an A rated Building Energy Rating (BER).

It is noted that the energy efficiency and renewable energy requirements for the construction of new homes and non-residential buildings are primarily addressed in the current Building Regulations Part L and the nearly Zero Energy Buildings (nZEB) standard. The European Energy Performance of Buildings Directive Recast 2010 (EPBD) requires all new buildings to be nearly Zero Energy Buildings (nZEB) by 31st December 2020, and all buildings acquired by public bodies by 31st December 2018. Regarding non-residential buildings, all buildings are required to use up to 60% less energy than allowed under current regulations, plus a requirement for up to 20% of this final demand to be met with renewables, including solar. With regard to residential buildings, any dwelling receiving planning permission after 1st April 2019, should meet the nZEB standard. Substantial completion must have been achieved by 1st April 2020. After 2020 all homes irrespective of when they received planning permission should achieve the new standard. Accordingly, it is not within the remit of the Draft CCAP to introduce additional building standards that would serve to duplicate or exceed the requirements of the European Energy Performance of Buildings Directive. Furthermore, introducing specific requirements on renewable energy technologies may conflict with or impede the implementation of the building regulations / nZEB on any specific site for development.

Further to submissions received, it is noted that the requirement to provide green roofs / green space, will impact on the wider viability and effectiveness of rainwater harvesting systems for new buildings. It is considered that there are a range of options for flood alleviation and climate change adaptation opportunities for each development proposal and on a case by case basis. Accordingly, it is not within the remit of the Draft CCAP to prescribe the requirement of green roof / green space technologies on all new buildings. Furthermore, this is overly prescriptive and may limit the range of flood alleviation and climate change adaptations measures that are both viable and practical on each development site.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.6.4 Submissions Regarding Energy Efficiency, Renewables, Research and Innovation

- Energy Efficiency in Council Buildings Leisure Centres could we have fitness machines micro generating electricity from kinetic energy from e.g. rowing machines, treadmills etc.? (SDCC-CCAP-201902-11)
- 2. Use heat pumps wherever practical on SDCC heating requirements. (SDCC-CCAP-201902-11)
- 3. REFiT policy for selling back domestic solar PV to the grid badly need to get buy in from general public and to attract higher purchase of domestic PV. (SDCC-CCAP-201902-11)
- 4. 'A key aspect of reducing energy use is public awareness, as retrofits, technology and innovation can only achieve a portion of SDCC's goals.' The only public awareness action is action is the home Energy Saving Kits available at only three or is it four (not clear) libraries at the moment. It is not clear how many libraries will have the kits or how many kits will be available. How many people use the libraries and how many people will be unaware of their existence? Is there a more basic equivalent or App that could be developed to reach a wider audience through SDCC website? How can the target of reduced GHGs and Energy Efficiency be achieved through the use of the kits or indeed measured as a result of accessing the kits? In addition, Climate change chapter in Local Area Plan (LAP) is confined to Tallaght Town Centre LAP. This would be better if expanded to include all LAPs as they arise. (SDCC-CCAP-201902-20)
- Renewable Energy The recently published Interim Guidelines for Planning Authorities on Statutory Plans, Renewable Energy and Climate Change (DHPCLG, 2017) should be taken into account, where relevant. (SDCC-CCAP-201902-42)
- Develop an action to promote common heating systems in public buildings. The Living Building Challenge should be adopted by SDCC for new builds to assist the development of sustainable building certification. (SDCC-CCAP-201902-46)
- 7. The Dodder alone used to house 41 mills along its banks. Could you look at developing small scale hydro along SDCC riverbanks? Perhaps tie into providing electricity to local domestic/services? Even perhaps rebuilding one of the old mills to generate kinetic energy? Could be a good local tourist attraction and would fit in well with heritage efforts. Also, perhaps offer grants to local schools/colleges to work on any such projects. (SDCC-CCAP-201902-11)
- 8. Look at ways of introducing small scale waste to energy schemes, perhaps in Tallaght hospital and perhaps in conjunction with waste management providers. (SDCC-CCAP-201902-11)
- 9. A reliable supplier of wind and solar energy installation providers should be marketed to home owners who are willing to pay privately to reduce their energy reliance on the government's system. Currently there are several companies providing such services but how regulated are they? How much are they held to long term service contracts for installations? There are fears that such companies can close down leaving private individuals who have invested heavily without a service company for their ten year warranty system etc. (SDCC-CCAP-201902-17)
- 10. Public buildings should allow for micro energy generation. (SDCC-CCAP-201902-06)
- 11. The RIAI strongly supports South Dublin County Council's vision of a zero-carbon city where all energy comes from renewable sources and where all buildings will have been built or retrofitted to near zero building standards. However, the current plan requires more ambitious strategies to realise a zero-carbon city. The RIAI strongly encourages South Dublin County Council to quantify the overall value of renovation vs. demolition of its existing stock using cost-benefit analysis, including energy efficiency, historic value of the buildings, embodied carbon. The RIAI also

suggests the approved version of the plan include a clear strategy for vacant and under-used properties in Dublin City. High quality energy upgrades could bring these properties back to life and reduce our building emissions. This way we could create new space for families in good locations. This would reduce our transport emissions and avoid emissions from new construction. The professional facilitators of development are key players in affecting development standards and should be recognised as influential 'Stakeholders'. This group would include architects, engineers, project managers, estate agents, financiers and others. Policies and objectives must be supported by constant monitoring of the consequent effect of every action and the implementation of an appropriate response where objectives are not being attained. Energy Efficiency And Renewables - It is essential to support micro-generation in dwellings and nondomestic buildings throughout both the public and private sector. Smart metering, feed-in tariffs and reduced costs of PVs will facilitate this initiative. However, building owners must have certainty that their investment in renewables will not be negated by developments subsequent to their efforts and that are out of their control. A Code of Practice or planning control is urgently needed to define the rights of the individual to access to solar (or indeed wind / heat pump) energy. It is essential for the orderly development of micro-generation, in urban, suburban and rural settings, that investors have certainty about their rights to continued access to renewable resources, including consideration of future over shading by buildings or vegetation, disruption of wind, overheating/cooling of ground water. The RIAI has a paper available (on request) that explores this significant issue. The proposals include positive reference to council's own building stock. More focus on the strategy for the necessary improvements to the non-council owned building stock is required. There is little reference to measures to optimise the use of our existing building stock by measures such as 'living over the shop' and urban renewal. Such a focus would have multiple benefits from a climate change view as well as social and financial benefits. Social Housing – The Council could set a specific target, in line with the EU Commission's Roadmap to 2050, of bringing 3% per year of its housing stock to NZEB level, either by replacement or preferably by upgrading. Reference should be made to the Council's retrofitting strategy whereby a number of large projects are in planning to regenerate council owned housing by upgrading the existing buildings, and adding additional apartments where site area permits. The upgrade measures involve not only deep energy retrofit and better space standards, improved accessibility and use of external spaces. SDCC CC AP - What does the figure of 10,710 tonnes CO2 mean? Should it be corrected / clarified as the Council's own operational impact? If so perhaps it would be more appropriate to also reference the data from all public and private overall sources within the council area. The figures seem disproportionate to the 2016 Ireland emission figure 68,550,000 tonnes CO2 estimated by EPA April 2018. Would it be more effective to utilise Tonnes of oil equivalent as the metric, rather than GWh? (SDCC-CCAP-201902-27)

12. Social Housing upgrades – does this include affordable housing stock? If not, can you look into expanding it? (SDCC-CCAP-201902-11)

Chief Executive Response to Grouping: Energy Efficiency, Renewables, Research and Innovation

A number of submissions seek to have buildings retrofitted to A ratings or nZEb. Some suggestions refer to the need to include a big increase in the use of renewables in particular of solar energy. Microgeneration and feed in tariff also formed the subject of several submissions. Others sought ways to encourage/incentivise private landlords to improve energy efficiency and sought the extension of the Home Energy Saving Kits. Generally, there were a few submissions that sought the consideration of Geothermal Sources and others that encouraged the District Heating proposal.

<u>Building Energy Standards</u> - New Developments: In accordance with Directive 2010/31/EU of the European Parliament and the Council of 19 May 2010 on the energy performance of buildings (recast), all new dwellings will be nearly zero energy dwellings by 31 December 2020. All New Developments are being constructed to NZEB as required under the Building Regulations (Part L – Conservation of Fuel and Energy – Dwellings (2017)).

<u>Building Energy Standards</u> - Existing Buildings: In accordance with new EU requirements (EPBD 2018/844/EU), all existing buildings must be deep-retrofitted to NZEB standard by 2050 at a rate of 3% of building stock per year. New building regulations to this effect will be introduced by March 2020 in tandem with a national long-term renovation strategy. In line with this, South Dublin County Council will devise and implement a deep-retrofit programme for public housing and other civic, recreation and amenity buildings.

<u>Use of Renewable Energy Technologies</u>: these are always considered and implemented in all new and retrofit South Dublin County Council Housing Developments in line with the requirements of revised Part L Building Regulations 2017. The technology, products or equipment considered include solar thermal systems, solar photovoltaic systems, biomass systems, systems using biofuels, heat pumps, aero generators, and district heating systems.

Home energy saving kits: The kit is available to borrow free of charge from South Dublin County Council Libraries, from a selection of Kildare, Kilkenny and Wexford Libraries, and all libraries in Roscommon, Leitrim and Cork City. The kit can be borrowed for a period of 2 or 3 weeks (lending periods vary from county to county), and helps you take the first step in becoming more energy efficient by identifying problem areas in your home and helping you make sense of the energy you consume on a daily basis. Action 17 of the Plan covers monitoring and developing the Home Energy Saving Kit scheme in SDCC libraries.

Micro-generation in Dwellings and Non-domestic dwellings

It is considered that onsite micro-generation technologies can contribute towards energy efficiency and reducing energy costs for both dwellings and non-domestic dwellings.

The Planning and Development Regulations 2007 (S.I. No. 83 of 2007) set out planning exemptions for micro-renewable energy technologies for residential dwellings, and came into effect from 28th February, 2007.

The Planning and Development Regulations 2008 (S.I. No. 235 of 2008) give effect to exempted development provisions in respect of renewable technologies for industrial buildings, business premises and agricultural holdings. The Regulations provide exemptions for wind turbines, combined heat and power (CHP) plants, solar panels and biomass boiler units, subject to certain conditions, across each of the sectors. The Regulations came into effect from 2nd July 2008.

Larger proposals for onsite microgeneration projects are addressed by way of the Development Management process, as set out in the Planning & Development Act 2000 (as amended) and related regulations. Local authority policies and objectives for such onsite and renewable energy projects are included in the County Development Plan.

In March 2019, the Oireachtas published its 'Climate Change: a cross-party consensus on climate action' report. The report recommends that the number of solar PV panels permitted without planning permission was restrictive and that this should be addressed, so as to enable increased microgeneration capacity in homes, farms and businesses without the need for planning permission. The report also notes that Ireland must legislate for a re-configuration of the electricity market to

make it possible for community-scale projects and private micro-generation "prosumers" (both a producer and consumer of electricity) to be able to sell any surplus electricity back into the grid.

It is noted that the Microgeneration Support Scheme Bill 2017 was referred to the Select Committee of Seanad Éireann in November 2018.

Social Housing Upgrades

South Dublin County Council has an ongoing energy upgrade programme for our Social Housing units to achieve BER improvement.

Links to Professional bodies

South Dublin County Council is committed to participating with the RIAI in particular the Sustainability Task Force in seeking new and innovative approaches to Climate action in the built environment:

Geothermal Energy

Geothermal energy is defined as the energy stored in the form of heat beneath the surface of the earth (RES Directive 2009/28/EC), geothermal energy technologies can then harness this heat for power and/or heating applications. There are two types of geothermal energy, shallow and deep:

- Shallow geothermal or 'ground source heat' is typically used for space heating and cooling and can be used for domestic purposes.
- Deep geothermal energy is used for large scale purposes, such as District Heating, Industrial
 applications and electricity generation.

A 'shallow geothermal' or 'ground source heat' takes heat from the ground. This heat comes from energy that is radiated from the sun, which is then stored below the ground where the ground acts as a large collector of solar energy. Heat also comes from the core of the earth. The Geological Survey of Ireland (GSI) states that 'In Ireland, our climate is particularly well suited for harnessing this 'shallow' geothermal energy, as subsoil and groundwater temperatures are near constant for the majority of the year.'

Deep geothermal energy tends to be deeper than 400m, is primarily the heat produced in the Earth's subsurface, and is heat stored in rocks (and soil), or geothermal fluids (water, brine, vapours). Typically, the capital cost of installing a deep geothermal system is expensive. However, there are considerable environmental benefits, as they are cheap to run once installed, there is a guarantee of endless heat supply, and it is a sustainable and clean energy.

District Heating:

As part of the HeatNet project South Dublin County Council is developing a heating system to supply low-carbon heat to offices and businesses in the Tallaght area. Waste heat will be taken from local industry and delivered through insulated pipes to the buildings connected to the system, replacing fossil fuel heating systems and therefore reducing air pollution and GHG emissions. This project is a high priority for South Dublin County Council. Heatnet will run until 2020 and will receive European Regional Development Funding through the INTERREG North West Europe programme.

Private Landlords

The current legislation [Housing (Standards for Rented Houses) Regulations 2019] in relation to maintaining standards in the private rented sector came into effect on the 1st July 2017. These

regulations now require all rooms in a rented property to be provided with adequate heating. Requirements in relation to ventilation continues to be a requirement of the legislation.

The Residential Tenancies Board provide information to tenants and landlords as well as to the general public on their rights and obligations, in terms both of living and providing accommodation in the rental sector.

Chief Executive's Recommendation

It is recommended that the following actions be added to the Draft CCAP as follows.

New Actions:

Action: South Dublin County Council is committed to participating with the RIAI in particular the Sustainability Task Force in seeking new and innovative approaches to Climate action in the built environment:

Action: Identify sites for trialling renewable energy projects, including solar PV and Geothermal technologies.

SEA Comment

Actions relating to long term building renovation and new and innovative climate action in the built environment are consistent with a number of SEOs in particular, material assets, climate change and air quality, population and human health as well as indirect positive effects in relation to cultural heritage and landscape.

The identification of new sites for trialling renewable energy projects such as geothermal should utilise the GIS data in particular. Existing measures in the South Dublin CDP, the CCAP, SEA ER and NIS will also apply. Subject to full implementation as appropriate, no adverse environmental effects are identified.

AA Comment

Actions relating to long term building renovation and new and innovative climate action in the built environment within South Dublin will not result in land use effects with the potential to negatively affect European Sites. The renovation of existing buildings will not have the potential to result in likely significant effects to European Sites.

The identification of site for trialling renewable energy projects such as solar PV and geothermal will not in itself have the potential to result in likely significant effects to European Sites. It is noted that any renewable energy project progressed within any such site identified on foot of this amendment will be subject to screening for Appropriate Assessment and where required a Natura Impact Statement. In addition existing measures that aim to protect European Sites as outlined in the NIS for the CCAP and the NIR for the CDP will be required to inform the site identification process.

5.6.5 Submissions Regarding the Use of LEDs in Public Lighting and in Social Housing

 Lighting energy use campaign to show what SDCC is doing re public lighting. Early target date for replacing 100% of public lighting with LEDs. Encourage groups who get grant aid from SDCC to reduce their energy consumption by the introduction of specific grants for LEDs, renewable solar panels, insulation, efficient windows / doors, etc. (Government should also support this action.). Practical support for community groups, clubs, sports centres, households, etc. to reduce energy consumption. (SDCC-CCAP-201902-32)

Several submissions received by the other Dublin Local Authorities requested that the replacement of existing public lights with LEDs be included in the draft CCAP. Submissions also expressed concern on the quality of lighting and the impact on nature, on photobiological safety and on circadian rhythms.

Chief Executive Response to Grouping: Use of LEDs in Public Lighting and in Social Housing

Continue LED lighting upgrade programme to increase on 35% of the network already upgraded. Achieve energy reduction targets to 2020 and continue with column upgrade programme. Our immediate and most important priority is to fulfil our target energy reduction requirement of 33% from 2006 baseline levels to 2020 levels, in line with the national requirement. This is targeting our most energy inefficient lighting which is currently still (in spite of ongoing LED upgrades) at just under 30% of our entire stock and is a considerable challenge on our resources. Once, the 2020 target is addressed, we will then reconsider our position regarding allocation of resources.

Careful selection and specification of LED luminaires improves the overall quality of lighting on streets leading to improved colour rendering, less sky glow and less spill / trespass light, reducing the impact on the environment. In combination with good lighting design and better optical control (through the use of individual LED lenses) LED luminaires can deliver the required amount of light in the right area. All LED upgrades and schemes are designed to meet the European / British Standards so patchiness and shading should not be an issue. Occasionally because of the existing lighting infrastructure layout, it is not possible to completely meet the standard. Typically, this occurs on streets where the spacing between lighting columns is large and the column heights are low.

In relation to blue light it is accepted that the 'blue light' component can affect circadian rhythms and that is why it is South Dublin County Council policy to use LED luminaires with a 'neutral white' colour temperature (around 4000 degrees Kelvin or less) in all lighting schemes. In some locations, particularly conservation areas (e.g. along sections of the canals), even lower colour temperatures than 4000 Kelvin are being considered to reduce the effect on species such as bats. However, there is always a trade-off between energy consumption (and therefore reduced carbon footprint) on the one hand and photo biological considerations on the other where lower colour temperature luminaires consume more energy than higher colour temperature luminaires.

With regard to 'photo biological' safety all LED luminaires procured by South Dublin County Council are in accordance with the requirements of European Standard EN62471:2008 'Photobiological Safety of lamps and lamp systems'.

Lights levels used on different roads and streets around the county are determined by the categories of road and the levels of vehicular and pedestrian traffic on that road. Crime and anti-social behaviour is also a consideration in particular in residential areas. Lighting levels on busy roads, are typically higher than those that would be encountered in residential areas.

With regard to reducing light pollution LED luminaires direct the light to where it is required thus reducing light pollution such as Sky glow and minimising light spill / trespass, through better optical

control of light sources. Correctly specified LED luminaires achieve that. Older lamp types such as low pressure sodium lights (orange type lights) throw light in many directions resulting in the Sky glow (orange glow in the night sky) that can be seen over many towns and cities around the country.

Protection of wildlife and supporting the rich array of biodiversity that exists in the county particularly in conservations areas such as along canals and rivers is important. For example, it is known that some of these conservation areas are feeding routes for Bats.

In this respect South Dublin County Council will follow guidance and codes of practise that is available from the Institution of Lighting Professionals in the UK and other relevant professional Institutions in Europe, to advise on suitable measures to ensure that the impact of street lighting is minimised and that the rich array of biodiversity is protected as far as is practical.

Chief Executive's Recommendation

It is recommended that no change be made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.6.6 Submissions Relating to Financing Building Energy Upgrades and Public Awareness

1. Retrofit & insulate all SDCC owned buildings. (SDCC-CCAP-201902-11)

Submissions received by the other Dublin Local Authorities relate to the need for information on funding and grant opportunities for home energy upgrades, public awareness programmes, Council led financing schemes, incentivising landlords to upgrade rental properties, information on feed in tariff scheme and renewable electricity support schemes, and additional advertising on national grants such as those from the Sustainable Energy Authority of Ireland.

Chief Executive Response to Grouping: Financing Building Energy Upgrades and Public Awareness

Action 11 and 12 of this action area commit to deep retrofits of the Councils housing stock as well as energy efficiency works in Council operated buildings. In March 2019, the Oireachtas published its 'Climate Change: a cross-party consensus on climate action' report. The report recommends that in order for a fair energy transition to take place, tailored advice and appropriate financial mechanisms need to be provided for all citizens. The report also states that there would be value in SEAI, along with Energy Agencies and any other bodies which offer financial assistance, re-evaluating the effectiveness and equity of current grant schemes. It is considered that low- and ordinary-income households should be enabled to retrofit their homes amongst other climate change measures. The report recommends the introduction of new financing options such as: de-risked loan facility, green mortgages, 'pay as you save' type schemes and a deferred repayment loan scheme.

Having regard to the submissions received, it is noted that the Council has a direct remit in retrofitting and refurbishing its own social housing stock, and it is considered that this issue is adequately

addressed in the Draft CCAP. At present, the Council does not have a remit or mandated obligation to provide finance or grant support to private sector residential retrofit or refurbishment works.

However, it is recognised that there is a need to foster and build momentum on wider citizen engagement in climate change, including dissemination of information on residential property retrofitting and refurbishment options and financing. Local authorities have significant experience in engaging citizens through their existing functions, including land-use planning, housing, employment, transport and environmental awareness. Local authorities are also engaged in existing public participation structures and approaches that are bottom-up, local community centred and are outcome focused. These include the Public Participation Networks, Local Community Development Committees (LCDP), Tidy Towns, Sustainable Energy Communities etc.

It is considered that by implementing and updating the CCAP into the future, strengthening existing networks and creating new climate change links, this will progressively inform and encourage all citizens, communities and other stakeholders to have increased access to information and advice. Interest areas could include identification and implementation of relevant energy efficiency measures, renewable energy actions, climate adaptation and resilience measures, access to funding sources such as SEAI grant schemes, the Climate Action Fund etc.

Local authority efforts in citizen and community engagement should be supported by the Climate Action Regional Office, the Environmental Protection Agency and other relevant stakeholders. It is part of the CARO remit to engage and support the National Dialogue on Climate Action on a local and regional basis, and also to develop education and awareness initiatives for the public, professionals, schools, NGOs and other agencies engaged in driving the climate change agenda.

Chief Executive's Recommendation

It is recommended that the following amendment be made to the Draft CCAP as follows:

Under 'Public Awareness' section the following text shall be added:

In implementing and updating the CCAP into the future, strengthening existing networks and creating new climate change links, should be maximised to encourage all citizens, communities and other stakeholders to have increased access to information and advice. Interest areas could include identification and implementation of relevant energy efficiency measures, renewable energy actions, climate adaptation and resilience measures, access to funding sources such as SEAI grant schemes, the Climate Action Fund etc.

Local authority efforts in citizen and community engagement should be supported by the Climate Action Regional Office, the Environmental Protection Agency and other relevant stakeholders. It is part of the CARO remit to engage and support the National Dialogue on Climate Action on a local and regional basis, and also to develop education and awareness initiatives for the public, professionals, schools, NGOs and other agencies engaged in driving the climate change agenda.

SEA Comment

This additional text relates to citizen engagement and awareness and does not form a specific action. Whilst positive interactions with population and climate change SEO, no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.6.7 Submissions Regarding Embodied Carbon

 The RIAI strongly encourages South Dublin County Council to quantify the overall value of renovation vs. demolition of its existing stock using cost-benefit analysis, including energy efficiency, historic value of the buildings, embodied carbon. (SDCC-CCAP-201902-27)

Chief Executive Response to Grouping: Embodied Carbon

SDCC is currently studying examples of best practice in regard to delivering low carbon and resource efficient construction projects. The intention is to put in place practices and procedures, which ensure that in designing buildings we make fully informed decisions in regard to the environmental impact of our developments.

Chief Executive's Recommendation

It is recommended that the following new action be included in the Energy and Buildings section of the CCAP.

New Action:

The Council will investigate the Lifecycle Assessment of Traditional and New Construction Methods for Residential Projects in Dublin.

SEA Comment

Positive interactions with SEOS relating to lifecycle assessment research. At this juncture no landuse effects are identified and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.6.8 Submissions Regarding the Impact of the Built Environment on Birds:

A submission was received by the our Environmental Consultant seeking consideration of birds in construction, in particular swifts.

Chief Executive's Recommendation

It is recommended that the following new action is added to the Draft CCAP.

New Action:

In all building projects, new build or retrofit, Swift Bricks or other nesting sites for swifts will be provided where practicable. The presence of swift breeding sites will be identified to ensure that known breeding sites are not lost as a result of construction work.

SEA Comment

This action relating is included on foot of a submission by Birdwatch Ireland. Positive effects in particular in relation to Biodiversity SEOS and no significant environmental effects are identified for this CE recommendation.

AA Comment

The Action will have positive implications for biodiversity and will not have the potential to result in likely significant effects to European Sites. The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.6.9 Submissions Regarding the Built and Archaeological Heritage

1. While the current draft action plan does set out a cohesive structure and determine specific actions in relation to Climate Change for South Dublin County Council there are no references, provisions or actions relating to the historic building stock of South Dublin County Council despite the fact that one of the 12 National Climate Change Adaptation Sectoral Plans will specifically deal with Built Heritage (Climate Change Adaptation Section Plan for Built and Archaeological Heritage) which is currently being developed by the Department of Culture, Heritage and the Gaeltacht. This is a significant deficiency in the Draft South Dublin County Council plan with regard to the Historic built environment but also appears to be missing from the other three Dublin plans. It is essential that the impact on architectural heritage is considered, included and planned for in the Climate Change Action Plan. The undersigned is currently the Chairperson of the Association of Architectural Conservation Officers (AACO) and is part of the Advisory Committee on the Climate Change Adaptation Sectoral Plan for Built and Archaeological Heritage. In my role as South Dublin County Councils Architectural Conservation Officer I have first-hand experience and knowledge of the current issues and concerns relating to climate change and how these are directly affecting our historic built environment. Within the Action Area of the current draft of South Dublin County Councils Action Plan one of the main action types identified for the section on Energy & Buildings is Upgrades in buildings using Energy Performance Contracts - Architectural conservation is a form of sustainable development as it retains and uses existing historic buildings that were generally built from locally sourced breathable materials (thatch, mud, lime, stone, brick, slate etc.) and already have invested embodied carbon. Any energy efficiency upgrade though of such buildings needs to ensure that it is appropriate and sensitive to historic construction methods and materials and not based on standards for impermeable new build. This is an area that requires further research and the production of specific Irish best practice examples as in the past there tended to be a reliance on UK practice. Relevant Guidance/Documents to inform development of relevant actions:Department of Environment, Heritage and Local Government (2010) - Advice Series: Energy Efficiency in Traditional Buildings. Dublin City

Council (DRAFTED AND DUE TO BE PUBLISHED LATE 2019) - Built to Last - Energy Efficiency of pre-1945 historic Dublin Dwellings. Department of Arts, Heritage and the Gaeltacht (2012) -Shaping the Future, Case Studies in Adaptation and Ruse in Historic Urban Environments. Heritage Council with SEAI and ICOMOS Ireland (2018) - Deep Energy Renovation of Traditional Buildings: Addressing Knowledge Gaps and Skills Training in Ireland. Historic England (2015) - Facing the Future: Foresight and the Historic Environment. Historic Scotland (2012) - A Climate Change Action Plan for Historic Scotland 2012-2017. Recommendations: The areas that need to be developed within Climate Change Action Plan for South Dublin County Council relation to architectural heritage are:Risk Assessment - Identification of threatened/vulnerable architectural and heritage sites. Introduce requirements for future climate proofing when granting planning for works on historic buildings. Establish a baseline for architectural heritage resources from which change can be measured such as using existing surveys and maps NIAH, GIS mapping system and OPW flood maps. Building Resilience -Preparation, awareness and appropriate mitigation measures/guidance for vulnerable historic sites (ensuring that any interventions are sensitive to the elements that make the sites of special significance). Undertake survey and recording of high-risk assets such as ruinous structures. Where possible increase the resilience of architectural heritage resources under current conditions. Best practice energy upgrades - Research (incl. best practice case studies) for improving energy efficiency in traditional/historic buildings in particular those that have been implemented and completed by South Dublin County Council. Potential of architectural conservation as an engagement tool for cross-sector research and initiatives, public engagement and education in relation to climate change and adaptation. It is recommended that the above areas for inclusion should be included in the Energy & Buildings Action Areas as part of the five key action areas for implementation of Climate Change Action Plans to ensure the area of Architectural Conservation/Historic Built Environment is reflected in the Dublin Local Authorities remits. Proposed Actions: It is asked that the following actions be included in the plan to achieve and implement the following: 1. Carry out a Climate Change Risk Assessment of South Dublin County Council Cultural Heritage to identify and survey the architectural heritage of the County and designed landscapes (both those with statutory designation and those with no specific protections) and other climate change threats (e.g. surface water flooding, storm damage, pollution, biological growth, stone decay). Note: Utilise the Building Dossiers already completed for Council owned protected structures, Assessments and Appraisals completed under County Development Plan Reviews for Protected Structures and Architectural Conservation Areas. 2. Apply (where they exist) or produce guidance notes on the steps for owners of historic properties to follow in the immediate aftermath of a disaster. Note: Dept. of Culture, Heritage and the Gaeltacht have a draft Advice Series publication on Disaster due to issue in 2019. 3. Develop on-going maintenance and condition survey programmes for South Dublin County Councils historic buildings that are informed by climate change predications and sites identified at particular risk from climate change impacts. 4. Devise Disaster Risk Management Plans for South Dublin County Council owned Historic Structures/Buildings i.e. Carnegie Libraries, other public structures currently in use by the Community Department. Ensure the personnel, procedures and equipment are available and identify the vulnerabilities and the priorities for mitigation measures or for rescue/salvage in a disaster situation. 5. Conduct research and seek to develop South Dublin County Councils research-based case studies on appropriate and sensitive retro-fitting/energy upgrading of traditional /historic buildings to inform works both to Council owned properties and to guide private owners. 6. Research historic land management systems in South Dublin County Council to determine if these should be re-instated, adapted or introduced elsewhere to control climate change impacts. 7. Continue to provide an Architectural Conservation Budget which is managed by the Councils Architectural Conservation Officer. Devise a list of Council owned protected structures where energy efficiency upgrading could be achieved and facilitated as works under the Architectural Conservation Budget. 8. Energy efficiency upgrading works and works to tackle climate change issues should be given priority under the list of Architectural Conservation projects proposed each year for Council owed protected structures in particular where the building is in community use. The undersigned is happy to provide further advice and information on the above items and would welcome the opportunity to be part of the current Climate Change Plan Working group for South Dublin County Council. (SDCC-CCAP-201902-11)

Submissions received by South Dublin relate to ensuring Built and Archaeological Heritage sites are safeguarded against the impacts of climate change.

Chief Executive's Recommendations

Additional text to be inserted in Energy & Building Section, as follows:

Local Authorities have a role in protecting and maintaining the archaeological and architectural resource for future generations. Climate change actions should be carried out in consultation with LA Architectural Conservation Officers, Heritage Officers and other relevant stakeholders. Proposals to improve the thermal performance of or insert renewable energy technologies into historic buildings need to be sensitive to traditional methods of construction to ensure that the proposed works are appropriate and do not actually cause damage to the structure, require the removal of historic fabric such as original windows, doors and floors, or have a detrimental visual impact.

National guidance is available to owners to direct appropriate interventions through the Department of Environment, Heritage and Local Government publication "Advice Series: Energy Efficiency in Traditional Buildings" (2010). South Dublin County Council will be mindful of this when carrying out works on any of its own historic building stock and seek to promote and develop best practice in this area.

Additional New Actions Awaiting Budget

Action: Develop maintenance and condition survey programmes for Council owned historic and ancient monuments that are informed by climate change impacts.

Action: Conduct research and seek to develop Council based case studies on appropriate and sensitive retro-fitting/energy upgrading of traditional buildings to inform works both to Council owned properties and to guide private owners.

SEA Comment

The above actions focus on cultural heritage in particular. By promoting consideration of these resources and adapting and considering climate change effects stronger protection of these resources are integrated to the SDCC CCAP. These are identified as generating positive direct interactions with

a number of SEOs including Cultural Heritage, Landscape and Climate Change as well as indirect positive effects on population and human health and material assets SEOs. No adverse environmental effects are identified for these CE recommended actions.

AA Comment

The above actions focus on cultural heritage, its protection and a sensitive approach to any sustainable energy upgrades to buildings of cultural heritage value. Its inclusions in the CCAP will not have the potential to result in land use effects that could result in likely significant effects to European Sites.

5.6.10 Submissions Regarding Energy Planning and Management: Monitoring of Targets

Many submissions were received by the other Dublin Local Authorities which sought the monitoring of Energy and GHG emissions included in the CCAP.

Chief Executive Response to Grouping: Energy Planning and Management: Monitoring of Targets

- (i) South Dublin County Council is on track to meet the public sector target of a 33% improvement in energy efficiency by 2020; this is an average improvement in energy efficiency of approximately 3% per year in the Council's own buildings and operations. This target is tracked through SEAI's monitoring and reporting (M&R) system. The M&R is a compliance tool to show the council how it is performing to achieve their targets. The Council currently uses the data from the M&R to develop the annual Energy Review.
- (ii) It is intended that the Energy Review will include a glide path illustrating the energy efficiency and GHG emission targets for the Council up to and including 2030. The Energy Masterplan will also inform this process going forward.
- (iii) The Council has an energy committee that works to ensure that existing energy reduction projects are monitored and that new projects are identified. The EC currently has an action plan that the committee track through the lifetime of the projects. Each project is currently listed in the Draft CCAP.
- (iv) The Council is also a signatory to the EU Covenant of Mayors for Climate and Energy initiative, which is a voluntary commitment by members to develop and implement Sustainable Energy and Climate Action Plans (SECAPs) and reduce their regions' greenhouse gases (GHGs) by 40% by 2030. SDCC will apply this target to its own operations but will also influence a reduction in GHGs throughout the County, through leading by example and working with key stakeholders and decision makers. This 40% reduction in greenhouse gas emissions by 2030 is just a target and does not limit SDCC to this target level. Appendix II of the Draft CCAP gives a baseline for total Emissions in South Dublin and this will be updated every two years in accordance with EU Covenant of Mayors for Climate & Energy protocol. This will address the submissions seeking better reporting and monitoring in the CCAP.
- (v) Action 1 of the Energy & Buildings Action Area of the Draft CCAP proposes to "Create Energy Master Plan for the Dublin Region".

The Dublin Region Energy Masterplan will evaluate and outline the cost-optimal, spatially possible and technically feasible low-carbon scenarios for Dublin to meet its 2030 and 2050 CO_2 reduction targets from the perspective of society, energy consumers and the energy sector. These scenarios will present a set of clear, evidence-based pathways that will enable the Dublin Councils to create effective, long-term energy policy in areas such as spatial planning, land-use, and public infrastructure

The masterplan will address all energy sectors of electricity, heat and transport, and crucially will be modelled from a spatial perspective as well as from a technology perspective. Two baseline scenarios will first be established; the current situation, and the future 'business as usual' situation which will model effects of current national level policy implementation to 2030 and 2050. From these, Codema will then establish the gap-to-targets and evaluate the possible local level low-carbon pathways to meet these targets, which will then be agreed upon by the Dublin Councils. The low-carbon potential of Dublin will be based on its unique spatial energy characteristics, which are often overlooked when examining low-carbon pathways at a national level. This project will be the first of its kind in Ireland and aligns with the objectives outlined in national level energy and climate change policy.

Codema are currently working on this Masterplan and part funding has been secured from the Sustainable Energy Authority of Ireland to complete it. The completion date is December 2020.

Table 5.6 Action Area: Energy and Buildings - Summary of amendments to actions and new actions

Energy and Buildings Action Number	Recommendation
1	No Change
2	No Change
3	No Change
4	No Change
5	No Change
6	No Change
7	No Change
8	No Change
9	No Change
10	No Change
11	No Change
12	No Change
13	No Change
14	No Change
15	No Change
16	No Change
17	No Change
18	No Change
19	No Change
20	The Council Energy Review (mid 2019) and going forward, will include a glide path illustrating the energy efficiency and GHG emission targets for the Council up to and including 2030.
21	Appendix II: Total Emissions in South Dublin of the CCAP, will also be updated every two years in accordance with EU Covenant of Mayors for Climate & Energy protocol.
22	South Dublin County Council is committed to participating with the RIAI in particular the Sustainability Task Force in seeking new and innovative approaches to Climate action in the built environment
23	Identify sites for trialling renewable energy projects, including solar PV and Geothermal.
24	The Council will investigate the Lifecycle Assessment of Traditional and New Construction Methods for Residential Projects in Dublin.
25	In all building projects, new build or retrofit, Swift Bricks or other nesting sites for swifts will be provided where practicable. The presence of swift breeding sites will be identified to ensure that known breeding sites are not lost as a result of construction work.
26	Develop maintenance and condition survey programmes for Council owned historic and ancient monuments that are informed by climate change impacts.
27	Conduct research and seek to develop Council based case studies on appropriate and sensitive retro-fitting/energy upgrading of traditional buildings to inform works both to Council owned properties and to guide private owners.

5.7 Actions on Transport

17 actions are outlined under the theme of Transport in South Dublin County Councils draft Climate Change Action Plan 2019-2024. A total of 58 items of submissions were received for attention to the main transport Chapter. The greatest number of submissions related to cycling infrastructure and cycle parking, the need to incorporate more segregated cycle lanes, and to improve the maintenance of the lanes, to improve enforcement around cycling and to provide more safe routes to school and training/education centres to encourage good cycling habits for children. 5 new actions were identified and 2 amended to clarify the action.

5.7.1 Submissions Regarding Road Infrastructure with unique identification number:

- Please use alternative concrete and include reclaimed/recycled plastic in road building material (SDCC-CCAP-201902-31)
- Public transport must be a huge consideration in all future developments. With so many new
 developments going up all over south county Dublin, and more large developments in the planning
 stage for Clonburris etc., traffic will be a huge issue. Traffic gridlock will add to emissions and be a
 major social issue. The transport infrastructure should be fit for purpose in any area in line with
 housing developments. (SDCC-CCAP-201902-31)

Chief Executive Response to Grouping: Road Infrastructure

South Dublin County Council will consider the use of reclaimed/recycled plastic and other alternate materials in the building of roads, footpaths and cycleways once approved, further research is required before local authorities, public bodies and contractors will use these materials for roads.

Actions 5 and 6 refer specifically to planning and public realm, and sustainable transport linkages. Action 14 refers to the delivery of public transport routes which will occur with the collaboration of the transportation bodies. Under the Planning and Development Act 2006 as amended and South Dublin County Council's own Development Plan, planning is required for schemes such as Clonburris. Clonburris was adjudicated under this legislation and changes were made as recommended in the Chief Executive Report and agreed by Council. This legislation includes for all effects of the development including the environment and transport.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.7.2 Submissions Regarding Modal Transport Shift:

- 1. To influence the transport sector to improve public transport substantially (SDCC-CCAP-201902-02)
- 2. Be ambitious, support car share schemes (SDCC-CCAP-201902-02)
- 3. Turn village centres to walking/cycling only throughways give these areas back to the people and stop the car-centric thinking & designing norms (SDCC-CCAP-201902-11)
- 4. Transport accounts for 38% of the county's emissions. Setting aside the Council's own targeted actions, what else can be done in this realm to reduce emissions from non-Council activities? The bike related actions are welcome, and encouraging people walk where they can, or to use public transport instead of their car particularly the latter is vital. The Council could provide public information on energy efficient cars from best to worst to inform decisions relating to use and purchase.
 - Useful information could be sourced from the various legislation/guidance/ policies, extracted and provided to the public in a readily and easily digestible format (SDCC-CCAP-201902-20)
- 5. Allow left turn on red to reduce time cars stop at traffic lights. (Used in USA as right turn on red). Legislate for e-bikes/scooters and self-driving cars. Need to be done at a national level but SDCC can promote it. Self-driving cars would allow driveways to be reclaimed from cobblelock/concrete. Steal App from Boston Massachusetts https://www.boston.gov/departments/new-urban-mechanics/street-bump to identify potholes early and reduce damage to cars (SDCC-CCAP-201902-21)
- There are no proposals for the promotion of cycling and walking as modes of transport. We note
 the reference to the National Cycle Policy Framework but are disappointed that there is no
 proposal to appoint a full-time Cycling Officer for the County as required by 17 (1) of the NCPF
 (SDCC-CCAP-201902-22)
- 7. Encourage active travel to schools. We recommend that the Council develop a programme to introduce safe routes for walking and cycling to every school in the County. The Council should review traffic movements and parking in the vicinity of each school and introduce restrictions on motor traffic and car parking to enable children to walk and cycle safely to school. We note that it is proposed to have organised walks to promote healthy lifestyles, i.e. Clondalkin Route. We suggest that this programme be expanded to include organised cycles. Consideration could also be given to organising walking and cycling "buses" to schools. (SDCC-CCAP-201902-22)
- 8. The DLAs should review and plan to foster and optimise the benefit of the emerging alternative personal transports such as battery-operated electric scooters / boards / cycles. This will require regulation, planning of paths / cycleways and possibly public charging points. These alternative methods of transport for the individual are here to stay – they must be safely catered for (SDCC-CCAP-201902-27)
- 9. Promote cycling and walking as a mode of transport. (SDCC-CCAP-201902-46)
- 10. Consult with Waterways Ireland about promoting the Grand Canal as a transport artery. (SDCC-CCAP-201902-46)
- 11. Develop a programme to introduce safe routes for walking and cycling to every school in the County (SDCC-CCAP-201902-46)
- Review traffic movements and parking in the vicinity of each school and introduce restrictions on motor traffic and car parking to enable children to walk and cycle safely to school. (SDCC-CCAP-201902-46)
- 13. It is proposed to have organised walks to promote healthy lifestyles, i.e. Clondalkin Route. This programme could be expanded to include organised cycles. Consideration could also be given to organising walking and cycling "buses" to schools. (SDCC-CCAP-201902-46)

- 14. Introduce a new action to support the creation of Smart Mobility Hubs for Business or University Districts and Private Organizations to promote adoption of Carpooling and Vehicle Sharing based on a variety of greener EV vehicle types (not just cars but also vans, minibuses, bikes and scooters). (SDCC-CCAP-201902-54)
- 15. Introduce a new action to promote innovative car & vehicle sharing initiatives that go beyond traditional car clubs. These could be open peer-to-peer vehicle sharing marketplaces where mobility providers, organizations and private individuals can list their vehicles (cars, vans, bikes, scooters...) and share them with their local community. (SDCC-CCAP-201902-54)
- 16. Introduce a new action that promotes Mobility-as-a-Service initiatives. This would facilitate seamless travel plans across multi-modal transport options with integrated subscription plan or payment card. These transport options would include car and bike sharing, carpooling and other innovative shared mobility options in addition to public transport. 4. Introduce incentives for the use of innovative carpooling and shared vehicles initiatives (beyond existing car clubs). This is being done in several major cities in Europe and America and technology can be used to verify and enforce eligible use. (SDCC-CCAP-201902-54)

Chief Executive Response to Grouping: Modal Transport Shift

South Dublin County Council recognises the importance of high-quality public realm and it is our policy to rebalance movement priorities towards more sustainable modes of transportation by prioritising the development of walking and cycling facilities within a safe and traffic calmed street environment (Actions 7, 8, 9, 10, 11, 12 and 13 apply). Walking and cycling buses is part of the Green Schools Program.

The call for legislation for e bikes, e scooters etc is a matter for National Government. The Council acknowledges the submission on mobility hubs and other transport options/ initiatives for consideration.

The Council recognises the contribution of transport to CO_2 emissions and are working to encourage a shift to sustainable travel. Policies to better integrate land use and transportation, to discourage private commuting and to encourage active travel and public transport use have been embedded in our development plans since the early 2000s. We recognise the importance of working collaboratively with communities, employers, schools and other stakeholders to bring about positive changes in travel behaviour. Increasingly the quality of the public realm is being recognised as an important factor in encouraging active travel.

In order to create a more sustainable space, the County Development Plan, in accordance with national policy, places emphasis on the need for a modal shift from motorised private modes of transport towards public transport, cycling and walking. This requires improvements to both the current public transport network and to facilities for pedestrians and cyclists. The Council is working with the emerging strategy of the National Transport Authority and supplement it with supporting local improvements.

Sustainable forms of transport such as public transport, walking, and cycling are strongly promoted in the County Development Plan, which takes a pro-active approach to influencing travel behaviour and effective traffic management. These are seen as important elements of a progressive policy that can contribute to climate change mitigation and a more sustainable County. A crucial factor in the discussion of movement and transport is the challenge of tackling climate change. The Council shall use its powers to manage transport related spaces in the administrative area so as to reduce transport-related emissions in the area.

Achieving a reduction in pollution and greenhouse gas generation, so helping to mitigate climate change. Tackling these issues holistically so as to facilitate continued economic activity while reducing vehicular congestion and improving air quality, so having a positive impact on health. It is considered that modal shift measures are adequately addressed in the CCAP.

Chief Executive's Recommendation

It is recommended that the following new actions are included:

New Action: SDCC participates in the national Cycle Right programme bringing cycle training to pupils in primary and secondary schools throughout the County area. SDCC works closely with An Taisce Green Schools on the Green Travel theme and encourages increased cycling through support for cycle training, on site cycle parking and improvements to the physical environment identified by pupils. Cycle Training Programme for 6th Class students / Pedal Power Labs

New Action: SDCC will continue to seek new and expand on existing partnerships to encourage sustainable travel and safer travel behaviours.

New Action: SDCC will establish a portal dedicated to communication and promotion of active travel within existing platforms

SEA Comment

Positive interactions with SEOS identified for all the above actions, in particular with material assets, climate change, population and human health SEOs.

AA Comment

The inclusion of these actions will not in itself result in land use effects and will not have the potential to result in likely significant effects to European Sites.

New Action: SDCC will engage with local communities to develop a vision for the future of their neighbourhoods with a strong focus on local living, sustainable mobility and quality of life

SEA Comment

The above action supports engagement communication and collaboration and this is consistent with a number of SEOS including population and human health, climate change and material assets.

AA Comment

The inclusion of this action will not in itself result in land use effects and will not have the potential to result in likely significant effects to European Sites.

5.7.3 Submissions Regarding Electric Vehicles and Charge Points

- Better Charging infrastructure for EV's (SDCC-CCAP-201902-02)
- 2. The lack of Electric car support in the county is very noticeable to electric vehicle drivers, there is less than 10 useable charger's online and some are frequently broken, and the council have no publicly accessible points anywhere, zero emissions cars and indeed bus's should be a priority for local bodies to significantly improve the local air quality and noise pollution issues, installation and maintenance of a paid for charging infrastructure on a large scale in all public car parks and spaces

could provide the council with an employment and revenue stream if handled correctly, the citizens of the county deserve clean air and support in making the switch to true battery only electric vehicles (SDCC-CCAP-201902-18)

- 3. Electric charging points for electric cars need to be ubiquitous. The plan to run points from lighting points is a great idea (SDCC-CCAP-201902-17)
- Use of low emission vehicles for the Council's fleet and ask that Compressed Natural Gas (CNG) vehicles are included in the consideration in the replacement programme (SDCC-CCAP-201902-25)
- Charge points for electric cars should be rolled out on a much more aggressive timeline at the moment, it can be very difficult to find anywhere to charge an electric car outside of your own home. It's a disincentive towards owning an electric vehicle at a time when they should be incentivised. (SDCC-CCAP-201902-31)
- 6. Increase the number of charging points for electric vehicles. (SDCC-CCAP-201902-46)
- 7. More electric car charge points. (SDCC-CCAP-201902-67)

Chief Executive Response to Grouping: Electric Vehicles and Charge Points

The recent report of the Joint Committee on Climate Action "Climate Change: A cross party consensus for Action" makes a number of recommendations in relation to electric vehicle infrastructure. It is understood that measures related to the increased uptake of electric vehicles including charging infrastructure will be included in the All-of-Government climate action plan to be completed in 2019. The four Dublin Local Authorities and the Dublin Climate Action Regional Office (CARO) sit on the recently established Low Emission Vehicles, Working Group 3 chaired by the Department of Housing Planning and Local Government (DHPLG). Outputs from the national group will inform the roll out of EV charge points by LAs and other organisations across the country as well the planning, infrastructural and legislative issues that need to be taken into account in this roll out (Action 17 applies).

In the review of the South Dublin County Council County Development Plan 2016-2022 South Dublin County Council will examine the requirement to strengthen policies with regard to the promotion and facilitation of electric vehicles and introduction of standards for e-charging facilities.

The Council has started the transition of its own fleet to electric/ low emission vehicles and will continue this transition in its fleet as appropriate vehicles and technologies emerge on the market.

Action 2 shows the commitment of the Council to continue to replace Council fleet with more energy efficient alternatives including electric vehicles.

Chief Executive's Recommendation

It is recommended that the following new action in included the transport section of the CCAP.

Action:

The Council will undertake an assessment of the number of existing and potential future Electric Vehicle Charge points in its jurisdiction.

SEA Comment

This action relates to an assessment only and no landuse effects are identified. No interaction with Strategic Environmental Objectives currently and no significant environmental effects are identified for this CE recommendation.

AA Comment

The inclusion of this action will not in itself result in land use effects and will not have the potential to result in likely significant effects to European Sites.

5.7.4 Submissions Regarding Alternative Fuels and Emissions for Public Transport

- For public transport vehicles (buses and rail mainly), Compressed Natural Gas (CNG) and hydrogen
 offers a decarbonisation solution for these vehicles and we ask for CNG and hydrogen to be
 supported to decarbonise the transport sector (SDCC-CCAP-201902-25)
- 2. Proposal that the Council supports the rollout of the CNG infrastructure and for further hydrogen trials to support heavy good vehicles and bus operators switch from diesel to cleaner alternative fuels (SDCC-CCAP-201902-25)
- 3. Transport emissions should be examined, for example, inclusion and examination of 38.9% of 1,877,910 tonnes of CO2 equivalent attributed to Transport in Mitigation Baseline section (SDCC-CCAP-201902-27)
- All construction machinery using diesel be retrofitted to include diesel particle filters (DPF) (SDCC-CCAP-201902-28)
- 5. Reasonable fares or zero fares (like Luxembourg) ensures customers are not deterred. Fast service to connected routes. There are low carbon (biomethane) and zero carbon options for buses (Battery Electric & Hydrogen Electric). Zero emission is the future so invest in it once!
- There is now a double decker hydrogen bus being manufactured in Ireland being sold globally (London, Europe, Asia). It produces only water and zero carbon emissions. (SDCC-CCAP-201902-40)
- 7. Target County emissions not just those of SDCC. Prioritise the areas and buildings with the highest emissions. Give more specific targets for emissions for the County (SDCC-CCAP-201902-46)
- Open a dialogue with transport companies to provide a reduced fair on public transport from 7am
 to 9am and 4pm to 7pm. This would significantly reduce car dependent people traveling to the
 city from urban areas that are not close to LUAS and DART services areas (SDCC-CCAP-201902-46)
- Expand the wording of Action 2 to include for the conversion of Council vehicles to CNG; "Ongoing replacement of Council vehicles with more energy-efficient alternatives, including EVs and CNG vehicles." (SDCC-CCAP-201902-62)
- 10. Expand the wording of Action 17 to include CNG refuelling stations. (SDCC-CCAP-201902-62)
- 11. A commitment to electrifying our rail lines through Lucan, Clondalkin and Hazelhatch. (SDCC-CCAP-201902-68)

Chief Executive Response to Grouping: Alternative Fuels and Emissions for Public Transport

The Council has no role or budget in the choice of technology for the public transport used in its jurisdiction. This role is mandated to the National Transport Authority (NTA) and funding provided by public bus fleets from central government through DTTAS. The government 's *Project Ireland 2040*¹ commits to ending the purchase of diesel-only buses from July 2019 for all our urban bus fleets.

The proposed NTA Bus Connects project states that full conversion of the bus fleet to low emission vehicles will be complete by 2030. A series of low-emission bus trials is under way in Dublin and Cork, funded through the DTTAS green public transport fund and with support from multiple agencies,

¹ https://www.gov.ie/en/campaigns/09022006-project-ireland-2040/

including the National Transport Authority, Dublin Bus and Bus Éireann. It is expected that the trials will conclude in April 2019. A final report will be produced which will further inform the best lower-emission option, or options, for services in the greater Dublin area and in the regional cities in the years ahead. In addition to this, a number of double-deck diesel-electric hybrid buses will shortly be delivered to Dublin Bus for a trial which will allow for a comparison of various manufacturers' offerings. Complementing those trials, the NTA will soon commence a tender process for the purchase of diesel-electric hybrid buses as part of 2020 bus purchase programme.² The Council has started the transition of its own fleet to electric / low emission vehicles and will continue this transition in its fleet as appropriate vehicles and technologies emerge on the market (Action 2 applies).

It is also noted that a recommendation from the report of the Joint Committee on Climate Action was that the NTA should investigate further the range of eco transport technologies that are currently in use, or under development, in other countries such as semi-hybrid solar buses in Norway with a view to identifying opportunities for adaptive retrofit and/or new vehicle introduction into public rolling stock replacements over the coming decade.

The Council is working closely with the NTA on the Bus Connects project to provide a better-quality bus and cycling infrastructure.

Chief Executive's Recommendation

It is recommended that amendments are made to:

Action 17: Expand availability of EV charging points and other facilities for non-fossil fuelled powered vehicles in the County

SEA Comment

This action relates to minor landuse effect. No significant environmental effects are identified for this CE recommendation and expansion of non-fossil fuel vehicles availability is consistent with SEOs around material assets, climate change and human health.

AA Comment

The inclusion of this action will not in itself result in significant land use effects and will not have the potential to result in likely significant effects to European Sites.

5.7.5 Submissions Regarding Cycle to Work Scheme & SDCC Staff Transportation

- Additional measures are required to encourage staff to cycle to work. For example, the Council
 should provide: high-quality, secure, sheltered bicycle parking; showering, changing and locker
 facilities for cycling (and running/walking) staff; staff education in the personal health and social
 benefits of active travel (SDCC-CCAP-201902-22)
- 2. There is no mention in the draft action plan of the emissions expended by the transport systems used by SDCC staff in coming to work. It would be interesting to know what percentage of the staff employed by SDCC use the car as their means of getting to work. Often there really is no choice given the poor public transport system that exists in Dublin (two tramlines, no underground, one electrified suburban line) but yet it should be possible for SDCC to incentivize those who live with

² https://www.kildarestreet.com/debates/?id=2019-02-12a.456&s=speaker%3A88

- 5KM of their workplace to cycle and for those that live within 1KM to walk to work. (SDCC-CCAP-201902-28)
- 3. Encourage staff to cycle to work by providing high-quality, secure, sheltered bicycle parking; showering, changing and locker facilities for cycling (and running/walking) staff; staff education in the personal health and social benefits of active travel. (SDCC-CCAP-201902-46)

Chief Executive Response to Grouping: Cycle to Work Scheme & SDCC Staff Transportation

The Council's own Mobility Management Initiatives provides carpooling parking spaces for council staff in County Hall and encourages staff to engage in active travel such as walking and cycling to work by participating in innovative transport initiatives such as Smarter Travel Program, Car Free Day, Cycle2Work Day to name a few.

Staff are encouraged to take up the bike to work scheme as a tax allowance incentive and provides bicycle facilities for staff to use at its main offices. The Cycle to Work Scheme is a government funded tax incentive scheme which aims to encourage employees to cycle to and from work.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.7.6 Submissions Regarding Cycling and Active Travel

- 1. Support schools for active travel (SDCC-CCAP-201902-02)
- 2. Support sports clubs to encourage participants to travel by foot/bike eg Lucan Scarsfields in too dangerous location to cycle (SDCC-CCAP-201902-02)
- 3. All council buildings should have secure parking for bicycles (SDCC-CCAP-201902-06)
- 4. Cycling infrastructure is currently wholly inadequate and disjointed a major upgrade of all cycling is needed, with emphasis on segregated cycle paths. We are way behind most other European countries on this. I look forward to the Dodder valley cycle path to the city centre but we need a holistic complete county upgrade, including an increase to 20% of all transport budget on cycling & pedestrian infrastructure (SDCC-CCAP-201902-06)
- 5. Install kinetic footpaths: e.g. http://kineticbikepathsfootpaths.weebly.com/how-it-works.html (SDCC-CCAP-201902-11)
- 6. Cycling is likely to continue to increase as a means of commuting into the city in the future from suburban towns and from commuter areas. However, whilst it is referenced in the draft action plan, specific targets need to be included in the action plan. Otherwise, as with many action plans, it remains an aspiration rather than a means of holding the local authority to account for delivery of much needed safe, cycle ways. Cycling targets therefore need to be ambitious, clearly spelled out and with the local authority being held accountable.

Similar % of cyclists commuting to work/study as in Dutch or Danish cities, which are global leaders in cycling infrastructure: 41% used bikes to cycle to work/study in Copenhagen in 2017. Coordinate traffic lights to favour cyclists.

Radically transform cycling infrastructure. As in Copenhagen, develop cycle super highways to all major suburban towns and which should be prioritised over all other transport methods. For example, super highways in Copenhagen lead cyclists in and out of the city from as far as 15 kilometres away. Not a quick solution, but would assist with traffic congestion, individuals' health, and road safety in the long run.

Increase number of secure bike parking facilities in city as cycling uptake expands. Have infrastructure ready rather than responding to it when bike parking facilities have reached capacity. Dutch/Danish parking facilities are excellent examples of this.

Expand JustEat Dublin Bike (DB) scheme to SDCC areas which are commutable by bike to city centre and make it free for users of these bikes as in Copenhagen.

Pilot electric bikes (with GPS for tourists) as an option within DB scheme to encourage greater uptake.

Make commitment to achieve UCI Bike City status by 2030 in collaboration with other Dublin local authorities, (measures the use of bikes as a leisure activity and means of transport and awards designation to cities which do so). Makes Dublin local authorities accountable to meeting other cycling targets above also (This submission was sent directly to SDCC as well as DCC) (SDCC-CCAP-201902-12)

- 7. In terms of encouraging cycling as a means of commuting, there needs to be a portion of road set aside for cyclist all across south Dublin. These paths can be part of the road itself or part of the footpath. From personal experience it should be the road however as the parts of the footpaths that are allocated to cyclists are often poorly maintained and of low quality. In the short term simply painting a portion of the road for cyclists would be of low cost compared to the cost of physical works and give more confidence to the many people I have spoken to who are willing to cycle but too concerned and afraid of their safety to take the leap from car to bicycle (SDCC-CCAP-201902-17)
- 8. The inclusion of cycle tracks in roads maintenance programme (SDCC-CCAP-201902-22)
- 9. We advocate massive investment in provision of cycle lanes physically separated from the road through shared pedestrian-cycle paths as found routinely in Germany, an increase in free cycle parking to extend to all car parks on the model of the Drury Street Car Park, measures to be taken to address cycle theft, greater toll reductions for electric vehicles, an increase in the electric vehicle charge point network, introduce "stand to the right" signage on all moving walkways and escalators to improve flow. (SDCC-CCAP-201902-30)
- 10. Please provide proper segregated cycle tracks to enable cycling for all ages and abilities as a priority (http://cyclingforall.ie/). Improve walking infrastructure also. SDCC should seek the public to help them to run a campaign to audit existing walking and cycling infrastructure to draw up lists of both local improvements required as well as newer larger improvement/enabling projects. Cycling and walking infrastructure projects should start at primary schools audit every primary school in the county, identify the main access routes to the schools and prioritise/ provide segregated protected cycle tracks to the schools. Follow on with secondary schools, colleges, etc. Promote the use and implementation of electric bikes, e-scooters, mobility mobiles and e-cargo bikes for deliveries. (SDCC-CCAP-201902-39)
- 11. Develop safe and segregated cycle paths on all major routes into the city (SDCC-CCAP-201902-55)
- 12. Appoint a full-time Cycling Officer for the County as required by 17 (1) of the National Cycling Policy Framework (NCPF) (SDCC-CCAP-201902-46)

- Promote cycling and walking. Create short cuts via laneways and creating openings between adjacent estates. Allow cycling in parks by marking out cycling strips on paths. (SDCC-CCAP-201902-49)
- 14. To make public transport move more effectively and making it faster than private cars it would be an idea to severely restrict car parking on roads, cycling lanes and paths. (SDCC-CCAP-201902-49)
- 15. Develop safe and segregated cycle paths on all major routes into the city. (SDCC-CCAP-201902-55)
- 16. We welcome the initiatives to encourage walking, cycling and increased use of public transport over private (fossil fuel based) vehicular transport. (SDCC-CCAP-201902-42)
- 17. Promote a project for all schools to plot how long it takes to walk or cycle to school from each child's home street, collate the results into a map with circular zones of 5 minute walks, 10 minute walk or cycle, 15 minute walk or cycle etc. and publish this on their website for all pupils and parents to see, as a way to encourage walking and cycling to school, this can be mirrored for businesses. (SDCC-CCAP-201902-57)
- 18. Develop appropriately located park and ride facilities to make optimal use of existing and future public transport. (SDCC-CCAP-201902-67)
- 19. Transform our canals' towpath's into cycle and pedestrian greenways. (SDCC-CCAP-201902-68)

Chief Executive Response to Grouping: Cycling and Active Travel

Many actions specifically respond to the received submissions in this grouping, actions 7, 8, 9, 10, 11, 12, 13.

The Council recognises the contribution of transport to CO_2 emissions and is working to encourage a shift to sustainable travel. Policies to better integrate land use and transportation, to discourage private commuting and to encourage active travel and public transport use have been embedded in our development plans since the early 2000s. We recognise the importance of working collaboratively with communities, employers, schools and other stakeholders to bring about positive changes in travel behaviour. Increasingly the quality of the public realm is being recognised as an important factor in encouraging active travel.

In order to create a more sustainable county, the County Development Plan, in accordance with national policy, places emphasis on the need for a modal shift from motorised private modes of transport towards public transport, cycling and walking. This requires improvements to both the current public transport network and to facilities for pedestrians and cyclists. The Council is working with the emerging strategy of the National Transport Authority and supplement it with supporting local improvements.

Sustainable forms of transport such as public transport, walking, and cycling are strongly promoted in the County Development Plan, which takes a pro-active approach to influencing travel behaviour and effective traffic management. These are seen as important elements of a progressive policy that can contribute to climate change mitigation and a more sustainable County. A crucial factor in the discussion of movement and transport is the challenge of tackling climate change. The Council shall use its powers to manage transport related spaces in the administrative area so as to reduce transport-related emissions in the area.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

Table 5.7 Action Area: Transport - Summary of amendments to actions and new actions

Transport	Recommendation
1	No Change
2	No Change
3	No Change
4	No Change
5	No Change
6	No Change
7	No Change
8	No Change
9	No Change
10	No Change
11	No Change
12	No Change
13	No Change
14	No Change
15	No Change
16	No Change
17	Expand availability of EV charging points and other facilities for non fossil fuelled powered vehicles in the County
18	The Council will undertake an assessment of the number of existing and potential future Electric Vehicle Charge points in its jurisdiction
19	SDCC participates in the national Cycle Right programme bringing cycle training to pupils in primary and secondary schools throughout the County area. SDCC works closely with An Taisce Green Schools on the Green Travel theme and encourages increased cycling through support for cycle training, on site cycle parking and improvements to the physical environment identified by pupils. Cycle Training Programme for 6th Class students / Pedal Power Labs
20	SDCC will continue to seek new and expand on existing partnerships to encourage sustainable travel and safer travel behaviours
21	SDCC will establish a portal dedicated to communication and promotion of active travel within existing platforms
22	SDCC will engage with local communities to develop a vision for the future of their neighbourhoods with a strong focus on local living, sustainable mobility and quality of life

5.8 Action 3 Flood Resilience

22 actions are outlined under the theme of Flood Resilience in South Dublin County Councils draft Climate Change Action Plan 2019-2024. A total of 13 items of submissions were received for attention to the main Flood Resilience Chapter. The greatest number of submissions related to flooding and flood related issues, there were also submissions on Sustainable Urban Drainage and Surface Water Quality. 4 amendments were identified.

5.8.1 Submissions Regarding Flooding and Flood related issues

- Use public lands, including parks, to allow them to mitigate future flooding events. See Culmore ecological play park, in Derry as an example. Also, Denmark have some examples here: https://www.citylab.com/design/2016/01/copenhagen-parksponds-climate-change-community-engagement/426618/ (SDCC-CCAP-201902-11)
- 2. The RIAI is delighted to see that nature-based solutions are Dublin City Council preferred response to flood defence. Town planners, Engineers, urban designers, ecologists, and heritage and conservation officers should ALL be involved from the outset in developing flood prevention plans. Furthermore, Dublin City Council's adaptation strategy should not have a huge impact on climate emissions and flood defence carbon footprint should always be assessed. (This submission was sent directly to SDCC as well as DCC) (SDCC-CCAP-201902-27)
- 3. Much is made of flooding in the SDCC area, but have you assessed the possibilities of landslides in the Dublin Mountain areas? I didn't see any mention of these. More intense storms are predicted and this in turn could lead to landslide conditions in some areas. (SDCC-CCAP-201902-24)
- Review natural flood management to incorporate the recommendations of Anja Murray in her report to Friends of the Earth. Natural Flood Management; Adopting ecosystems approaches to managing flood risk. (SDCC-CCAP-201902-46)
- 5. Adopt better use of gully machines which will alleviate urban flooding in residential areas. (SDCC-CCAP-201902-46)
- The various flood defence / alleviation schemes referred to should ensure that the relevant mitigation measures in the Eastern CFRAMS Flood Risk Management Plans are effectively implemented and monitored during the construction of the project lifecycle. (SDCC-CCAP-201902-42)

Chief Executive Response to Grouping: Flooding and Flood related issues

The Chief Executive acknowledges the submissions in relation to flooding and associated issues. South Dublin County Council is currently engaged on a number of Flood Alleviation Schemes working with the OPW and neighbouring Local Authorities. These schemes are using our public parks where possible to attenuate water in a natural way, and nature based solutions are used where possible, grey engineering solution are used where there is no natural solution. More information on this scheme can be found at http://www.poddlefas.ie/. Action number 6 under the Flood Resilience action area covers the implementation and demonstration of SuDS guidelines in SDCC buildings, Strategic Development Zones (SDZ's) and Local Area Plans (LAPs). Pluvial flooding will also be assessed, and ongoing maintenance of the drainage infrastructure is and action of the CCAP.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.8.2 Submission Regarding the Role of Individual Homeowners Undertaking SuDS Measures

 Open a dialogue with Residents Associations about tree planting, open spaces, grass verges and back gardens in relation to flood resilience. (SDCC-CCAP-201902-46)

Chief Executive Response to Grouping: Role of Individual Homeowners Undertaking SuDS Measures

The Chief Executive acknowledges the submission in relation to how individual citizens could and should implement their own SuDS measures within the footprint of their homes and especially in those cases where their home is upstream of a flood zone. All new developments are being encouraged to use green infrastructure and store significant amounts of rainfall; however it is not the mandate of the CCAP to have private house owners implement SuDS at their properties. SuDS measures are adequately addressed in the CCAP. Action 22 of the Flood Resilience section will *Promote and encourage community involvement in the retrofit of SuDs in existing developments*.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.8.3 Submission Regarding the replacement of car parking areas with permeable surfaces

 In relation to managing "urban creep" and the increase in impermeable surfaces, I would suggest a need to increase public awareness of the value of householders leaving (where possible) some area around their driveway permeable to water. A similar awareness raising exercise should be carried out with developers and the business/office community. (SDCC-CCAP-201902-26)

Chief Executive's Response

The Chief Executive acknowledges the submissions in relation to the replacement of car parking areas with permeable surfaces. Action number 15 under the Flood Resilience action area covers the establishment of a working group to deal with the issue of pluvial flood risk. This shall include:

- · How to manage "urban creep" and the increase in impermeable surfaces
- Promotion of SuDS early in design process
- · Development of pluvial flood forecasting through use of point rainfall forecasting

The standards and provision of car parking spaces is a function of the County Development Plan and as such is not within the remit of the Draft CCAP.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.8.4 Submissions Regarding Surface Water Quality

- If a river originates in a Natura 2000 site then that river requires greater protection as an
 ecological corridor and should be treated as such, under planning practices and the SDCC
 Development Plan. The SDCC Development Plan does not even identify any of these rivers or
 their tributaries. (SDCC-CCAP-201902-47)
- Many of our rivers are impacted by sewerage spillage during heavy rainfall. There is a huge issue of legacy dumping that has never been dealt with e.g. along the Owendoher River (election posters some 30 years old been recently located). (SDCC-CCAP-201902-47)
- 3. SDCC has no crew whose job is to do regular clean-ups of rivers Public Realm has in sufficient resources to tackle riverbank clean-ups. (SDCC-CCAP-201902-47)
- 4. Place purifying stations in key areas. (SDCC-CCAP-201902-46)

Chief Executive Response to Grouping: Surface Water Quality

The Chief Executive acknowledges the submissions in relation to the quality of surface waters. Action item 10 & 11 aim to protect and clean our surface waters and South Dublin County Council is actively working with other agencies particularly Local Authority Waters Programme (LAWPRO) in relation to delivering the objectives of the River Basin Management Plan 2018-2021. South Dublin County Council also works with voluntary groups and tidy town in the clean-up of river banks by way of grant and the SDCC social credit scheme.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment:

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.8.5 Submission Regarding Irish Water

1. Many of our rivers are impacted by sewerage spillage during heavy rainfall.

Chief Executive Response to Grouping: Irish Water

A submission notes that Irish Water has an impact on rivers and is absent from the list of stakeholders in the plan. Given that Irish Water are a stakeholder in the work of the Council, new text is proposed.

Chief Executive's Recommendation

It is recommended that the following amendment be made to the Draft CCAP as follows:

Under Flood Risk Management -the following text shall be added:

The Council is working with a range of stakeholders including Irish Water in the management of pluvial flooding across the local authority area.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.8.6 Regional Submissions on GIS Risk Map

A submission makes reference to the publication of all data that would be contained within any GIS risk map. One of the actions of the CCAP is to 'develop a climate change impact GIS risk map with scenarios for the Dublin Region'. The data layers for this work is generally in the public domain (floodmaps.ie and Irelands Open Data Portal). The publication of any data will be in accordance with local authority policies.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment:

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.8.7 Regional Submissions Regarding Flood Resilience and Energy Efficiency

A submission was received that recommended that all flood resilient measures be developed in an energy-efficient manner. The Council are committed to implementing measures as energy efficient as possible, in line with best practice technologies. The Draft CCAP sets out how the council will meet the following specific climate change targets:

- · A 33% improvement in the Council's energy efficiency by 2020; and
- A 40% reduction in the Council's greenhouse gas emissions by 2030.

In Ireland, the public sector has mandatory energy efficiency targets. It is set in the context of Ireland's EU and national commitments and wider climate change goals, whereby a target of 33% energy efficiency improvement is to be achieved by all Irish public bodies (as defined in Statutory Instrument 426 of 2014) by 2020. Public bodies are required to report annual energy efficiency data to the Sustainable Energy Authority of Ireland (SEAI) which manages the reporting process on behalf of the Department of Communications, Climate Action and Environment (DCCAE). There is currently no statutory requirement to undertake sectoral mitigation plans, including revised sectoral, local authority emissions reductions targets.

Being a signatory to the EU Covenant of Mayors for Climate & Energy, the Council has voluntarily committed to a 40% reduction in the Council's greenhouse gas emissions by 2030. Across Europe, signatory cities pledge action to support implementation of the EU 40% greenhouse gas-reduction target by 2030 and the adoption of a joint approach to tackling mitigation and adaptation to climate change.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

5.8.8 Regional Submission Monitoring of SuDS

A submission was received recommending that the application of SuDS as part of flood risk management actions be supported by relevant monitoring and maintenance to ensure their effective operation over the lifetime of the Plan. This is standard procedure within local authorities.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

Table 5.8 Action Area: Flood Resilience - Summary of amendments to actions and new actions

Flood Resilience	Recommendation
1	No Change
2	No Change
3	No Change
4	No Change
5	No Change
6	No Change
7	No Change
8	No Change
9	No Change
10	No Change
11	No Change
12	No Change
13	Develop template to capture impacts, response and costs (including ecosystem services/natural capital costs) for all major climate events
14	No Change
15	Update DLA urban drainage and flooding policies for current knowledge of flood risk and the latest best practice in drainage design promoting natural flood measures as a priority
16	No Change
17	No Change
18	No Change
19	No Change
20	Minor flood schemes and general maintenance that are designed and implemented to promote nature based solutions where practical
21	Communication and awareness campaigns on flood risk management and natural flood management measures
22	No Change

5.9 Actions on Nature-Based Solutions

Nature based solutions are critical in climate change adaptation. There were 44 submission items received in relation to Nature Based Solutions. There were no new actions and 1 new amendment as a result of these submissions. The submissions can be broadly summarised under the following headings.

5.9.1 Submissions Regarding Trees

- 1. Tree planting should be in excess of the number of trees felled to increase the tree canopy of street trees. (SDCC-CCAP-201902-09)
- 2. A public consultation should be made as to tree removal or pruning, just as for any public works. (SDCC-CCAP-201902-09)
- 3. I think there needs to be a moratorium on cutting all trees in the city and a drive to plant thousands more trees, trees support a huge variety of wild life and are carbon sinks and are also very good for humans, bringing peace. (SDCC-CCAP-201902-10)
- 4. Can you expand forestry and replant existing to native woodlands? Perhaps work with DAFM, Coillte within your DMP board membership. (SDCC-CCAP-201902-11)
- Can you include expansion of fruit & nut trees into tree management policy? Aside from all of the
 obvious tree benefits, they provide food for biodiversity & humans alike, are low maintenance
 and often suitable for riparian locations, to aid with flood mitigation and riverbank retention.
 (SDCC-CCAP-201902-11)
- 6. Plant a new tree for every resident in SDCC over this Climate Action term. (SDCC-CCAP-201902-11)
- 7. Surprising to see that amongst the actions tree planting was not there. SDCC-CCAP-201902-13
- 8. Urban reforestation, changing public perception of urban nature, changing our environment. Planning for the future. (SDCC-CCAP-201902-17)
- 9. Trees are a key component and known carbon sink. The actions in this section are heavily resilience oriented. (SDCC-CCAP-201902-20)
- 10. It is also interesting to read on page 73 that SDCC has a deficit of trees. Action point 14 states that there will be a % increase in tree canopy cover. (SDCC-CCAP-201902-28)
- 11. Trees for climate change 'Crann trees for Ireland' advocates the following and calls for the support and action of your council...(SDCC-CCAP-201902-29)
- 12. The easy treesie Crann, Trees for Ireland project has pleasure in submitting the following remarks to the climate change action consultation...(SDCC-CCAP-201902-30)
- 13. Tree planting should be prioritised. Native trees and plants should be prioritised. Pollinator-friendly trees and plants should be used as far as possible and practicable. General public should be involved. Establish an education / support centre to show the public what SDCC is doing and what actions the public can take to improve the environment using natural practices / products. (SDCC-CCAP-201902-32)
- 14. Include as a priority the provision/planting of trees across the County with reduced cost trees available for households to plant and map. This will assist, flood alleviation as well as increasing biodiversity throughout the County. Some waste companies are not processing their waste appropriately. Increased inspections by SDCC to ensure compliance could help to resolve this issue. (SDCC-CCAP-201902-46)
- 15. Is there a tree canopy mapping project app for example. (SDCC-CCAP-201902-47)

- 16. The 'Living With Trees' Project is a success thanks to Mary Keenan and her team but the net planting figures are low due to a lack of resources. Six thousand trees as a net figure is a very low figure. What percentage of this number were fruit trees? (SDCC-CCAP-201902-47)
- 17. The Wicklow Mountains National Park requires a buffer zone between itself and the ever increasing built urban & city environment. It is remarkable that a section of this National Park lies within SDCC local authority area. It warrants SDCC to develop a buffer zone of protection. Why can't SDCC plant a million trees as part of this buffer zone of protection (similar to the Millennium Tree Project). (SDCC-CCAP-201902-47)

Chief Executive Response to Grouping: Trees

Submissions relate to the role of afforestation in enhancing resilience to climate change. The Council recognises that increased tree planting can contribute to the development of carbon sinks in the County, which can contribute to the impact of greenhouse gas emissions. Afforestation policy in Ireland, is under the jurisdiction of stakeholders including Department of Agriculture, Food and the Marine, Collite etc. and includes initiatives such as the Afforestation Scheme.

The Council will continue to implement tree planting programmes across the County in line with its tree management policy adopted in 2015 Living with Trees: South Dublin County Councils Tree Management Policy 2015-2020. This tree management strategy guides the management and maintenance of trees in public ownership across the county, in accordance with best practice to ensure a healthy and sustainable tree population for current and future generations.

Native trees are part of the County Tree Strategy but limiting to just native plants may not provide enough for biodiversity or visual interest. Many non-native plants are providing important sources of food for pollinators in the County.

Chief Executive's Recommendation:

It is recommended that the flowing action is amended:

Action 22: Include native species into local authority plans where appropriate as a key nature-based measure where appropriate

SEA Comment and AA Comment

The above actions were assessed during draft plan preparation and were recommended for mitigation to enhance environmental performance.

5.9.2 Submissions on Pollination

- I am writing to stress that you place an emphasis on restoring balance to the web of life in Dublin
 City and beyond. Our insects and bees are under threat and I suggest that you take Holland's lead,
 and ban all pesticides in the city, and build insect hotels to support our insect and bee population.
 (SDCC-CCAP-201902-10)
- 2. Eliminate all chemical Pesticides & Herbicides. Apply all of the pollinator.ie recommendations. (SDCC-CCAP-201902-11)
- Without bees and other wildlife creatures, many of our plants cannot function properly. SDCC should allocate resources and invite the public to spend their own private funds on specially allocated areas to build beehives, bat boxes/houses. (SDCC-CCAP-201902-17)

- 4. The all Ireland pollinator plan has very clear and practical guidelines with regard to the best practices for supporting pollinators. This includes not mowing grassy areas until mid to late April and then sticking to a 6 week mowing schedule. Public grassy areas have been widely mown in mid March 2019. Local councils should be aware of the recommendations and adhere to them as much as possible. An effort to raise awareness among the general public as to why this is happening should also be made. (SDCC-CCAP-201902-31)
- 5. Incentives to encourage green roof buildings / bee keeping. (SDCC-CCAP-201902-32)
- 6. Reduce grass cutting to promote wildlife biodiversity and encourage public education and awareness of this policy through public notices and signage. Eliminate use of chemical sprays to control weeds as per national pollinator plan. Use natural sprays and publicise change in policy on council vehicles/staff clothing. Organise biodiversity walking tours for the general public. The above proposals should be discussed and implemented when agreed in consultation with community groups such as Tidy Towns. (SDCC-CCAP-201902-35)
- 7. End practices that are harmful to biodiversity. Stop wholesale cutting of green areas. Areas of grass need to be left grow to support pollinator species. Plant native pollinators to aid biodiversity. Ban the planting of single species hedges. Stop cutting down mature trees rather than appropriately pruning them. Existing trees should be safely maintained by tree surgeons or appropriately trained council staff. Increase hedge/hedgerow size to a minimum of 3m to aid wildlife. Enshrine nature restoration as a key target. The Draft Climate Action Plan identifies nature restoration and tree planting as vital mitigation and adaptation solutions. Allowing grass and wildflowers to grow, planting trees and shrubs, regenerating wetlands and so on are the best defence we have against the rising CO2 levels causing climate change. Biodiversity Ireland reports 20% of species are under threat of extinction in Ireland including the bumblebee. Nature restoration is vital to maintain Irish biodiversity, save essential pollinator species and to remove CO2 from the air to balance emissions we will be unable to reduce. Nature restoration is important enough to be its own separate key target. The restoration and regeneration of nature should be a key target of the Climate Action Plan. The Draft Climate Action Plan identifies the prevention of habitat loss (p71) as an essential activity. However, realistically we will continue to build new housing and the council continues to cut down mature trees. If we continue to simply strive to "protect" habitat we will continue to lose it. It is essential that we create new habitat within our urban environment. There are single lines of hedging along roadways and boundary fences throughout South Dublin. The National parks and wildlife service identify hedges as being of exceptional importance to Irish biodiversity. Planting a second line of native hedge shrubs alongside existing hedge would transform these currently useless hedges into a haven for Irish biodiversity and help protect Irish food security as we head into an uncertain future. Furthermore, there are isolated lines of broken hedgerow in greenfield sites throughout South Dublin. This hedgerow is often incorrectly maintained too low to be of any use to biodiversity. To create new habitat and ecological corridors we propose: identifying hedgerow and lines of hedging along roads and fences. Ensuring this hedging is maintained at a height of at least 2.5m. A programme of tree and shrub planting to increase the number of native trees in the County. (SDCC-CCAP-201902-38)
- Action 24 pg76 Incorporate actions from national pollinator plan into Green Infrastructure. Strategy Pg 71 Actions to support pollinators, reference as legislation. Action 25 pg76 Support and promote National Biodiversity Data Centre All – Ireland Pollinator Plan Actions for Councils. Reference relevant legislation policies/ guidance. No pollinator icon. Attachments; Pollinator – Council –Guide- final and Council Framework AIPP 19.3.19. (SDCC-CCAP-201902-41)

Chief Executive Response to Grouping: Pollination

SDCC has taken a leading role to support pollinators on public land. In order to inform our citizens on the work being undertaken the Council works closely with local community groups. Actions in the national pollinator plan are implemented on private developments in the County by means of planning reviews carried out by SDCC.

SDCC are currently trialling alternative maintenance regimes to allow for five-week cuts of grass areas as opposed to two-week to encourage pollination. This requires raising public awareness and public acceptance of this form of maintenance and the trade off with perceived aesthetics. In addition to this SDCC is also trialling wild flower mixes in selected areas of the County. Mulching and careful plant selection are other pollination methods currently adopted.

As a leader in pollination the Council are currently creating a pollinator garden outside County Hall for the public and any interested community groups to view.

The Council has a policy in place to reduce usage of chemical controls, including avoidance of spraying near play areas and other sensitive zones. Glyphosate is being replaced and is used only in accordance with the approvals from central government. South Dublin County Council does not permit run-off into rivers and streams. Staff are trained in careful use in accordance with the Regulations, dosage and environmental protection requirements.

Chief Executive's Recommendation:

It is recommended that no amendments be made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.9.3 Submissions Regarding Biodiversity and protected Species

- 1. The national biodiversity plans needs to be activated. And in my opinion it can no longer be business as usual, what is important is restoring the natural balance to this land and protecting our plant and wild life. (SDCC-CCAP-201902-10)
- 2. Reduce grass cutting to promote wildlife biodiversity and encourage public education and awareness of this policy through public notices and signage. Eliminate use of chemical sprays to control weeds as per national pollinator plan. Use natural sprays and publicise change in policy on council vehicles/staff clothing. Organise biodiversity walking tours for the general public. The above proposals should be discussed and implemented when agreed in consultation with community groups such as Tidy Towns. (SDCC-CCAP-201902-35)
- 3. We are a small group. We want to bring to your attention a local site which we refer to as the wild woodland habitat between the villages of Rathcoole and Saggart. We ask that this habitat be preserved and protected as it contributes to climate change mitigation. This Wild Woodland is within an area of approx. 12 ha. It is made up of willow/birch scrub which is a great example of

natural succession. It is adjacent to Rathcoole Park, Rathcoole Village and agricultural land. The Woodland comprises small meadow areas, hawthorn hedge-rows, blackthorn, wild rose, and other wild plants and flowers. It is inhabited by many birds and mammals. Notably, it has a stream and temporary springs. This area has multiple resource potential for the community as an amenity and for improving the health for our community. It already contains trails and desire lines as people use it for recreation and as a direct route between Rathcoole and Saggart. Already it supports much wildlife and acts as a wildlife corridor. We want to highlight the value of the site in terms of building biodiversity and quantifying its Woodland value in mitigating local flooding and climate change. It is subject to a planning application for housing with SDCC currently. We request that the integrity of the site be protected. We see great potential for many of the features to be kept intact, by establishing nature driven development. We ask that forthcoming developments would be integrated into a plan which seeks to enhance key green spaces for community enjoyment and education. For us and our community, contact with nature improves our mental and physical health, reduces stress, lifts our mood and increases our recovery from illness and disease. (Barton, Charles Lewis.) These Woodland trees, hedgerows, wildflowers and waterways are providing vital habitats and food sources' for our wildlife and pollinators. Locally this allows birds, frogs, mammals, and insects like bees and butterflies to thrive. These spaces also act as safe travel corridors for a wide range of different animals, linking areas. Wild spaces made up of trees absorb water and help reduce local flooding. As living things they take in and store carbon, helping against climate change. Woodlands release oxygen. We expect that this submission will be given serious consideration and subsequent actions to help our community secure this wooded landscape as a resource for the future. (SDCC-CCAP-201902-36)

4. End practices that are harmful to biodiversity. Stop wholesale cutting of green areas. Areas of grass need to be left grow to support pollinator species. Plant native pollinators to aid biodiversity. Ban the planting of single species hedges. Stop cutting down mature trees rather than appropriately pruning them. Existing trees should be safely maintained by tree surgeons or appropriately trained council staff. Increase hedge/hedgerow size to a minimum of 3m to aid wildlife. Enshrine nature restoration as a key target. The Draft Climate Action Plan identifies nature restoration and tree planting as vital mitigation and adaptation solutions. Allowing grass and wildflowers to grow, planting trees and shrubs, regenerating wetlands and so on are the best defence we have against the rising CO2 levels causing climate change. Biodiversity Ireland reports 20% of species are under threat of extinction in Ireland including the bumblebee. Nature restoration is vital to maintain Irish biodiversity, save essential pollinator species and to remove CO2 from the air to balance emissions we will be unable to reduce. Nature restoration is important enough to be its own separate key target. The restoration and regeneration of nature should be a key target of the Climate Action Plan. The Draft Climate Action Plan identifies the prevention of habitat loss (p71) as an essential activity. However, realistically we will continue to build new housing and the council continues to cut down mature trees. If we continue to simply strive to "protect" habitat we will continue to lose it. It is essential that we create new habitat within our urban environment. There are single lines of hedging along roadways and boundary fences throughout South Dublin. The National parks and wildlife service identify hedges as being of exceptional importance to Irish biodiversity. Planting a second line of native hedge shrubs alongside existing hedge would transform these currently useless hedges into a haven for Irish biodiversity and help protect Irish food security as we head into an uncertain future. Furthermore, there are isolated lines of broken hedgerow in greenfield sites throughout South Dublin. This hedgerow is often incorrectly maintained too low to be of any use to biodiversity. To

- create new habitat and ecological corridors we propose: identifying hedgerow and lines of hedging along roads and fences. Ensuring this hedging is maintained at a height of at least 2.5m. A programme of tree and shrub planting to increase the number of native trees in the County. (SDCC-CCAP-201902-38)
- 5. Engage with residents and environment groups re Biodiversity urgently. SDCC should engage a full time Biodiversity Officer immediately along with a team of Biodiversity Coordinators in each electoral ward so that the nature based solutions of the plan can be implemented. Unlike other LAs there is no designated Biodiversity Officer to refer queries or projects to. For example DCC have an assigned role that balances the Tidy Town efforts of the various groups (e.g promoting natural linkages/ecological corridors, hedgerow mapping, non existent tree canopy mapping etc). Some concerns were raised about how the biodiversity aspects of a submission can be meaningfully assessed in the absence of a Biodiversity Officer. The Environmental awareness section of SDCC could be more visible and active in the community particularly with residents associations and tidy towns groups. SDCC should ensure that they have the correct equipment for cutting wild flower meadows. Using incorrect equipment is damaging and counterproductive. All community grants for environmental initiatives should be proofed for consistency with The All Ireland Pollinator Plan and approved by the Biodiversity Officer. The DCCAP can reference the All Ireland -Pollinator Plan with a commitment to implement the actions set out in the guideline document 'How Councils can support the Pollinator Plan'. SDCC could make available flower bulbs for their 'bulbs not bonfires' scheme, and increase the quantities of those bulbs for organised groups (e.g. Tidy Towns). This could be a first step in correlating the SDC Climate Change Action plan with the All Ireland -Pollinator Plan. Develop wildflower meadows in all parks. Engage young people with the plan and increase their participation by developing a pilot project with transition year students. Students can learn about parks and gain knowledge and possibly work experience in the role of a Park Ranger. Urgently assess wildlife corridors and fill in gaps (e.g. green roofs). Expand tree thinning beyond just street trees. (How else can trees be increased?). Identify areas (outside of parks and urban areas) that have both flood and climate mitigation capabilities. Support Green Schools to maintain their Green Flag. Schools should be inspected each year to ensure standards are adhered to. Prepare an invasive species plan. There are more invasive species than Japanese Knotweed (e.g. Mink kill ducks and birds etc.). If rivers start in a Natura 2000 area they should be treated with all the EV appropriate protections under the Habitats Directory. Prepare riparian vegetation policies which will aid biodiversity, river health & fisheries and flood alleviation. The policies will protect, maintain and improve these systems. (SDCC-CCAP-201902-46)
- 6. SDCC has for a long period of time not invested in Biodiversity and the Public Realm functions in comparison to other Dublin local authorities this needs to change dramatically. We have been highlighting the lack of a full-time Biodiversity Officer and a lack of a Biodiversity Plan operational within this local authority since 2006. There is no budget specifically set aside for promoting and protecting Biodiversity. With no baseline biodiversity data in place for the references purposes valuable opportunities to retain and protect local biodiversity. A greater effort to establish baseline data needs to be put in place e.g. a county wide bat survey and ecological assessments of our rivers etc. Natural Linkages have disappeared in worrying quantities due to development pressures & poor planning decisions with little regard for the impact on the wider County System of Natural Linkages. The issue of these fragmented natural linkages needs to be prioritised by SDCC and replanting or 'plugging the gaps' initiated. Is there a County Wide Natural Linkage Map

for SDCC? There are no gardeners employed in SDCC unlike other local authorities so how are they going to introduce the National Pollinator Plan in their public realm spaces (parks, open spaces, grass verges) when they do not have the qualified horticultural personnel in place. Last year DLRCOCO recruited 16 more gardeners to their Team. SDCC has no team of gardeners. It is hard to believe that SDCC was not represented at the National Biodiversity Conference in 2018 - no delegate was even sent by the CEO. There is no promotion of Biodiversity in the SDCC area – not even a Biodiversity Week. SDCC need a robust Biodiversity Plan with adequate resources. We need a Biodiversity Officer with Biodiversity Co-ordinators appointed for each of the electoral ward. There are insufficient resources for invasive species removal - invasive animals such as mink etc not being monitored by SDCC. Riparian Infrastructure Policies and Objectives need to be developed – they are currently non-existent despite their contribution to Biodiversity, River Quality and Flood Alleviation. (SDCC-CCAP-201902-47)

Chief Executive Response to Grouping: Biodiversity and Protected Species

SDCC has a dedicated Green Infrastructure working group with representatives across all internal departments. Through the County Development Plan this group help protect the interconnected network of waterways, wetlands, woodlands, wildlife habitats, greenways, parks and conservation lands, forests and other open spaces that adjoin and are threaded through urban areas within SDCC. This Green Infrastructure Network supports native plant and animal species and provides corridors for their movement, maintains natural ecological processes and biodiversity, sustains air and water quality and provides vital amenity and recreational spaces for communities, thereby contributing to the health and quality of life of residents and visitors to the County.

Through the adoption of our Local Area Biodiversity Action Plans the rich biodiversity connection of our wetlands, meadows, hedgerows and rivers can be protected and promoted. Through the variety of our native species and abundance of woodland edge in our parks help to further promote biodiversity.

SDCC was the first Council to tackle the issue of invasive species and currently has two dedicated full-time control staff. Through internal cross departmental consultation SDCC have developed a phone app allowing for photography, reporting and GPS tagging of invasion pockets. From this a better understanding of invasions across the County can be gathered allowing for a more efficient strategy to be adopted for areas in need of removal.

Chief Executive's Recommendation:

It is recommended that no amendments be made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.9.4 Submissions Regarding General Nature Based Solutions

- Legally it is extremely difficult to set up and XX citizen groups, community groups and benefit
 groups. If you need to apply for grants you need a bank account, you can't have a bank account
 without an identity. We need access to legal assistance. If SDCC was to have pathways already
 set up for our group to access legal assistance this would go a long wat to helping our members
 access better fruit and veg. (SDCC-CCAP-201902-03)
- 2. I believe that getting out and amongst nature can give a greater appreciation of our environment and therefore anchor the feeling of why we should protect it. I would like to see built for the children of South County Dublin, a network of mountain bike trails in our mountains. It is currently happening for our neighbours in Dun Laoghaire Rathdown (https://www.thejournal.ie/slieve-bloom-mountain-biking-rural-projects-get-government-funding-goahead-4494659-Feb2019/). Mountain biking is a sport that children can learn and then enjoy for a lifetime. It is not a team sport and so we are statistically more likely to keep doing it as we get older. To see evidence of its growing popularity, visit Ticknock or The Gap in Glencullen https://www.thegap.ie/">https://www.thegap.ie/ both in DLRCOCO. Potential Locations: Slievethoul (Slade Valley), Ballinascorney Upper, Ballymorefinn Hill, Seahan. (SDCC-CCAP-201902-08)
- 3. Ensure all bogs are preserved, protected and take measures to re-wet all SDCC boglands. (SDCC-CCAP-201902-11)
- 4. The number of foxes and badgers killed on our roads annually is a shame, and all because of lack of planning in building these roads. In many countries there are tunnels built under and above roads to allow wildlife safe crossings avoiding road surfaces. Attached is an article briefly describing these. (No article was attached JMG) (SDCC-CCAP-201902-17)
- In terms of urban planning rising sea levels are now unavoidable. No planning permission should be given for commercial and residential properties that are not going to be at least 3 metre above sea level. (SDCC-CCAP-201902-17)
- In 2019, Gas Networks Ireland will commission Ireland's first renewable gas injection facility generated from anaerobic digestion plants using agricultural residues and by-products. (SDCC-CCAP-201902-25)
- The RIAI welcomes sustainable approach of the inclusion of "nature-based" solutions. We believe DCC should show leadership in this respect on sustainable strategies. (SDCC-CCAP-201902-27)
- 8. Urban Geology. As the proposed developments take place in an urbanized environment, we suggest looking at our Urban Geology section on our website. Geological Survey Ireland produces urban geoscience data on a project basis, informing the areas of soil geochemistry and contamination, 3D modelling of ground conditions, and assessing ground motions that present a hazard to citizens in the urban environment. We also have a GeoUrban section to our Map Viewer which covers the Greater Dublin Area. Nature based solutions should be

considered even in an urban environment. For example, an analysis of soil sealing could be done to determine levels of permeability in the Greater Dublin Area. We recommend using the GSI's Quaternary subsoil map and geotechnical database for this task. (SDCC-CCAP-201902-45)

- There is no report on climate change and the impact it will have on Protected Structures and National Monuments in the SDCC area. Some protected structures are more at risk and these have not been identified and remedial action identified and taken. (SDCC-CCAP-201902-47)
- 10. The Heritage Officer is not a fulltime position and there is no Heritage Co-ordinator. The Heritage Forum has not met in 2 years which is a real indicator of just how low a priority this is for SDCC. The SDCC Heritage Plan 2010-2015 is out of date again another indicator on how low a priority SDDC sees Heritage. We need a current robust Heritage Plan able to deal with the challenges of Climate Change. There is no qualified Archaeologist engaged by SDCC. (SDCC-CCAP-201902-47)
- 11. There are very experienced personnel based in the Tymon and Rathfarnham Depots but they have not been consulted by the Climate Action Team in SDCC despite them being on the frontline dealing with the public and dealing with the environment day in day out. The proposal to remove the Parks Depot from Rathfarnham and transferred to the Tymon Depot is a retrograde step as more time will be spent commuting and less available time for 'public realm' works. Local knowledge will be lost. (SDCC-CCAP-201902-47)
- 12. M50- Green Infrastructure along the M50 was severely compromised with the introduction of an extra lane but there is no programme of Green Infrastructure Planting since this time. (SDCC-CCAP-201902-47)
- 13. It is worrying that Senior Management were not aware of the requirements of an EIAR e.g. that a Bird Survey would be needed. Not having biodiversity baseline data at County Hall or an understanding of the ramifications of having Natura 2000 sites in your local authority area is a serious issue that Senior Management have not acknowledged or addressed. It was regrettably on full display during the An Bord Pleanala process to date the consultants engaged were clearly not briefed on the local environment (local knowledge) of the subject site and the ex situ sites. There was no report presented by the Heritage Officer for example no consultation. (SDCC-CCAP-201902-47)

Chief Executive Response to Grouping: General Nature-Based Solutions

Many general submissions relate to topics which would be considered outside the scope of the Draft Climate Change Action Plan. A number of submissions relate to the need for the Draft CCAP to interact with a number of wider and sectoral climate change issues i.e. cultural heritage, energy infrastructure etc. Under the National Adaptation Framework, sectoral adaptation plans are required to be prepared and submitted to the Government. South Dublin County Council are cognisant of these plans and will work with other Sectors in reviewing our Plan.

As the Draft CCAP will be approved by the elected members in advance of the finalisation of approval of all twelve sectoral adaptation strategies, it is considered that narrative be included in the Draft CCAPs regarding the role of sectoral adaptation plans and the role that local authorities play in collaborating and working in partnership with sectors to achieve and delver the sectoral plans, given their common and shared agenda.

SDCC has an extensive capital investment programme that includes the provision of active recreational facilities within the Council's parks and open spaces. Recent programmes and proposals include the playspace programme, the current teen space programme, the astro pitch programme, the pitch renovation programme, the development of athletics tracks at Esker Park and Dodder Valley, the provision, upgrade and development of sports pitches county wide as well as other facilities such as outdoor gym equipment, tennis, skateboard parks, multi-use games areas, a multi-use ball wall area, boules areas, bowling and extensive walking and cycling routes. The Council is also in partnership with Coillte in the Dublin Mountains Partnership which facilitates and promotes the provision of recreation in the Dublin Mountains including the long distance walking trail; the Dublin Mountains Way from South Dublin to Dun Laoghaire across the Dublin Mountains and this area includes the provision of the Mountain Bike Trail in Coillte owned lands. The provision of further mountain bike trails at the areas suggested will be a decision for the land owners.

All planning applications are reviewed by SDCC to ensure compliant with Chapter 8 of the County Development Plan (CDP) in relation to Green Infrastructure. All applications must take account of the connectivity of our waterways, wetlands, woodlands, wildlife habitats, greenways, parks and conservation lands, forests and other open spaces that adjoin and are threaded through urban areas. The protection of these assets is key to the strategy as out lined in G1 Objective 2 of the CDP.

In Drafting the CCAP extensive internal consultation was carried out across all Council Departments as well as a six week public consultation period from Monday 11th February to Monday 25th March 2019. In collaboration, every department within South Dublin County Council was involved throughout both consultations.

SDCC provides advice and assistance to Local Community Groups such as Tidy Towns and Resident Associations. Our bi-annual Community Grants Programme is aimed at providing financial assistance to Community and Voluntary Groups who are responding to locally identified needs within their communities.

As part of the process in drafting the CCAP and in order to ensure compliance with all National and European Environmental Legislation an Environmental Consultant was engaged to produce Natura Impact Report (NIR) and a Strategic Environmental Assessment Environmental Report. These reports accompany the CCAP are were part of the public consultation process. Any amendments proposed by the appointed consultants to take into account any recommended changes or additions/omissions to the text or actions contained in the Plan will be submitted to the members of SDCC for consideration.

Chief Executive's Recommendation:

It is recommended that no amendments be made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

Table 5.9 Action Area: Nature Based Solutions - Summary of amendments to actions and new actions

Nature-Based Solutions	Recommendation
1	No Change
2	No Change
3	No Change
4	No Change
5	No Change
6	No Change
7	No Change
8	No Change
9	No Change
10	No Change
11	No Change
12	No Change
13	No Change
14	No Change
15	No Change
16	No Change
17	No Change
18	No Change
19	No Change
20	No Change
21	No Change
22	Include native species into local authority plans where appropriate as a key nature based measure where appropriate
23	No Change
24	No Change
25	No Change
26	No Change
27	No Change
28	No Change
29	No Change
30	No Change
31	No Change
32	No Change
33	No Change

5.10 Actions on Resource Management

23 actions are outlined under the theme of Resource Management in South Dublin County Councils draft Climate Change Action Plan 2019-2024. There were 65 items of submissions received, primarily relating to waste reduction, waste recycling, waste prevention and waste reuse. 2 new actions were identified and amendments were made to 1 action as a result of the submissions. These are outlined below.

5.10.1 Submissions Regarding Waste Management and Waste Collection Issues

- 1. The RIAI welcomes the implementation of a water conservation campaign in civic buildings and the implementation of an education programme to tackle climate issues related to the water sector. Waste management As mentioned under section 12, the RIAI encourages DCC to quantify the overall value of renovation vs. demolition of its existing stock. More specifically, a holistic method for cost-benefit analysis (including energy efficiency, historic value of the buildings, embodied carbon, etc.) should be developed. Investors are increasingly worried about costs of future demolition where countries such as the Netherlands are moving to circular economy principles. Against this background, DCC should not only fund action 36 Develop sustainable construction waste policy (action awaiting funding) but also act as a true leader in our transition to a more sustainable built environment and introduce full building life cycle assessment for new built. Life cycle assessment is a key indicator under Level(s) the EU framework for sustainable buildings. (This submission was sent directly to SDCC as well as DCC) (SDCC-CCAP-201902-27)
- Page 80 states that SDCC will introduce a comprehensive waste prevention and recycling programme within the Council... I am surprised this does not already exist? What has happened since Minister Noel Dempsey putting waste in the hands of the county manager over a decade ago and now to put such systems in place? This should be clarified. (SDCC-CCAP-201902-28)
- 3. Introduce solar-powered "belly bins" at strategic locations such as public parks. (SDCC-CCAP-201902-35)
- 4. Waste Management: There is a need for an overhaul of the waste management function amongst Local Authorities and their areas. The failure by the regulatory bodies to inspect waste companies and their 'recycling' practices is poor. So, it is common knowledge that some waste companies breach their licenses e.g. some companies will collect black and brown bins together so they going to the same truck even though the customer has separated out the waste. SDCC do not require their tenants to have a bin account as part of their tenancy agreements. (SDCC-CCAP-201902-47)
- 5. The Council needs to take a leadership role in all aspects of handling waste. This could be by changing all county bins over a two-year period to segregated bins. Bins could be developed that will have two divisions or even three. This would be non-recyclable, Recyclable and Organic. (SDCC-CCAP-201902-49)
- That Bottle Banks are actively put in as part of all new council developments. (SDCC-CCAP-201902-56)
- That SDCC change their planning laws and enforce that larger companies/food outlets/Pubs must provide recycling facilities to include cardboard and bottles along with cans and that the council commit to the maintenance and clean-up of these (SDCC-CCAP-201902-56)

- 8. That all council owned building have recycle banks and encourage and promote recycling including community centres (SDCC-CCAP-201902-56)
- 9. That SDCC email reports etc. and desist from printing where possible and encourage and promote this as a policy and this applies in all council owned buildings (SDCC-CCAP-201902-56)
- 10. All council buildings, owned or leased, should have a compostable waste collection system as well as dry recycling. (SDCC-CCAP-201902-57)
- 11. Public bins need to be segregated into recyclable and non-recyclable sections. Large volumes of the waste in public bins is plastic bottles. (SDCC-CCAP-201902-67)

Chief Executive Response to Grouping: Waste Management and Waste Collection Issues

South Dublin County Council operates a three-bin system in their buildings, which are non-recyclable, recyclable and organic and will continue to do so. South Dublin County Council's Litter Management Plan informs that 'big belly' bins will be installed in the Rathfarnham area of the county on a trial basis, their success may lead to their installation in other areas. The Litter Management Plan will be coming under review this year, public segregated bins will be examined in this context. Further projects and initiatives that are considered by this policy are, domestic presentation of waste, waste from fast food/take out venues, dog foul waste will be addressed under the ongoing Green Dog Walker Campaign, bottle and other bring banks and their location (Action 16).

The Council monitors and regulates permitted waste recycling facilities, while the EPA regulates licenced facilities. Permitted facilities are subject to planned and unplanned inspections and audits. The number of inspections and audits are recorded. Demolition waste is segregated at source or at a waste recycling facility (Action 1).

Some submissions provided to other Dublin Local Authorities suggested that the local authority should operate domestic waste services as some current operators are seen to operate in an environmentally inefficient manner. Actions and policies relating to these are set out in the 2014 document - "A Resource Opportunity - Waste Management Policy in Ireland" which is due for review in 2019. This review will inform the development of a future national waste management policy, including environmental goals, regulatory and market structures and policy instruments and tools. This action is therefore outside the remit of the CCAP.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

5.10.2 Submissions Regarding Complimentary Currencies and the Role of LAs in Deposit and Return Scheme

- Growth is driven by debt-based money. Please consider introduction of a local currency @Good Money for Bad Times'. Many examples internationally eg Brixton £, Liverpool £, Bristol £. There are 60 in Germany. Could work with Timebank – possible initiative under 300K boost for tourism. (SDCC-CCAP-201902-04)
- Develop an initiative for recycling of glass and plastic bottles with a deposit scheme (SDCC-CCAP-201902-46)

Chief Executive Response to Grouping: Complimentary Currencies and the Role of LAs in Deposit and Return Scheme

Complimentary Currency Schemes are mainly used to promote local business and outside the scope of this document. South Dublin County Council use a similar scheme called 'Social Credits' whereby groups and individuals are rewarded for work carried out in the community.

A number of submissions to the other Dublin Local Authorities suggested that the local authority should operate a mandatory deposit and return scheme for plastics.

Actions and policies relating to these are set out in the 2014 document - "A Resource Opportunity - Waste Management Policy in Ireland" which is due for review in 2019. This review will inform the development of a future national waste management policy, including environmental goals, regulatory and market structures and policy instruments and tools. This action is therefore outside the remit of the CCAP.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.10.3 Submissions Regarding the Banning of Single Use Plastic

- Enforce a no single use plastics rule, there are alternatives, they just cost commercial entities more. (SDCC-CCAP-201902-01)
- 2. Eliminate all single-use plastics unless absolutely necessary (SDCC-CCAP-201902-11)
- 3. Plastic is one of the biggest menaces facing humanity. A lot of the people are not aware of the magnitude of the problem, and of those who are, a lot find solace in the "fact" that their single use plastic will be recycled. However, >90% of the plastic ever produced has never been recycled. So, there is a very high chance that a soft drink bottle used today will stick around for ~450 years. Unless the trend changes. (SDCC-CCAP-201902-19)

- 4. SDCC needs to ban plastic bottle sale and use and supply in south Dublin. All solid reusable durable materials can be used for drinking purposes. The same approach needs to be taken with bags. The sale and supply of plastic and paper single use non-durable material bags must be banned. People simply have to plan ahead bring drinking containers and bags when they will need them or use businesses and venues that supply such things onsite or charge for supply of long-term versions of these items. (SDCC-CCAP-201902-17)
- Banning of plastic takeaway packaging, straws, cups, cutlery etc. to be replaced with e.g. rented stainless steel on deposit, rented beer glasses such as at German beer festivals, or Nalgene/ bamboo cups with silicone lids and deposits. Ban plastic single use containers. Promote cloth napkins. (SDCC-CCAP-201902-30)
- 6. Provide drinking water fountains to reduce usage of single use plastic containers. At festival events such as the Lucan Festival in September provide mobile water tanks again to reduce usage of single use plastic containers. (SDCC-CCAP-201902-35)
- 7. Drinking water pipes should be installed in all SDCC Parks this would reduce plastic & obesity (SDCC-CCAP-201902-47)
- There needs to be more choice of loose produce. These kinds of initiatives are even more vitally
 important given that plastic wrap and bags mostly cannot be readily recycled anymore, and a lot
 of fresh produce is wrapped in plastic. Increasing recycling targets will be very difficult unless
 people can avoid plastic more readily. (SDCC-CCAP-201902-57)
- 9. "Eliminate single-use plastics at Council organised events" could be expanded to include events which require council permission e.g. street feasts. (SDCC-CCAP-201902-67)
- 10. While in reality the council cannot enforce this, stating it as a requirement will force people to consider their actions. (SDCC-CCAP-201902-67)
- 11. Consider how SDCC can support sharing economy to reduce consumption. (SDCC-CCAP-201902-67)

Chief Executive Response to Grouping: Banning of Single Use Plastic

Action 10 applies for Council organised events.

Many submissions called on South Dublin County Council to ban the use of Single Use Plastic within the Council and within the functional area of the Council, enforcing a ban on all organisations.

South Dublin County Council has been part of a number of projects within its functional area that have led to a reduction and elimination of single use plastics. Examples include:

- To reduce waste and the provision of single use plastic to customers was part of the fast food/ take away outlets campaign
- · The Conscious Cup campaign is running within the Council building
- The provision of water tankards at festivals and gatherings such as Flavour of South Dublin
- Water fountains installation in public parks

It would be outside the remit of the local authority to implement a wider county ban on all single use plastic users. Actions and policies relating to these are set out in the 2014 document - "A Resource Opportunity - Waste Management Policy in Ireland" which is due for review in 2019. This review will

take account of any EU legislation emanating from a recent vote by the European Parliament to ban a range of single use plastics. This action is therefore outside the remit of the CCAP.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.10.4 Submissions Regarding Waste Reduction

- 1. Encouraging local groups and organisations in their efforts to reduce waste, go plastic free and increase recycling. (SDCC-CCAP-201902-01)
- 2. Stop binning all SDCC food waste it should either go to charities such as food cloud or to anaerobic/aerobic digestion or composters at bare minimum. (SDCC-CCAP-201902-11)
- 3. SDCC should establish a renew, reuse, recycle centre similar to the Rediscovery Centre in Ballymun. (SDCC-CCAP-201902-32)
- Composting Facilities or a wormery at County Hall (for their canteen and coffee dock) (SDCC-CCAP-201902-47)
- 5. Election Posters and their associated electrical ties should be banned (SDCC-CCAP-201902-47)
- There is no recycling facility with SDCC bins. There needs to be resources set aside for dog bins (SDCC-CCAP-201902-47)
- Sustainable disposal of unsold food: That SDCC incorporate into the plan that they will actively
 promote FoodCloud and encourage all shops to give unsold food to local causes that they can
 distribute to those in need SDCC has a role in this in encouragement and support. This should limit
 food waste (SDCC-CCAP-201902-56)
- 8. We welcome the various actions to reduce waste of material resources and become more resource and energy efficient (SDCC-CCAP-201902-42)
- 9. GNI supports the Council's actions on Resource Management. GNI recommends that the Council considers the opportunity to use brown bin wastes from the region as feedstocks in anaerobic digestion plants to produce renewable gas. This would help support the circular economy vision which is outlined in section 5.2 of the 'Eastern Midlands Region Waste Management Plan 2015 2021'. (SDCC-CCAP-201902-62)

Chief Executive Response to Grouping: Waste Reduction

South Dublin County Council encourages the reduction of waste and increase of recycling through its many campaigns and grant schemes. The Council operates a three-bin system in their buildings, which are non-recyclable, recyclable and organic and will continue to do so. Dog waste can be disposed of in any non-recyclable bin (Actions 5, 6, 7, 8, 9, 11, 13, 14 and 16 apply).

The removal and therefore reduction of waste is at the top of the waste pyramid, and therefore a key goal of South Dublin County Council. Submissions made to us and the other Dublin LAs relate to the elimination of single use plastics. Some refer to actions relevant to a deposit and return scheme. A national examination of an Irish scheme has been commissioned. Some suggestions refer to EU plastics strategy and proposed plastics directive and packaging directives. This is beyond the scope of the plan. Taxation of single use cups is a national issue and again is beyond the scope of this plan. However, South Dublin County Council is undertaking its own initiatives in this area including the removal of these items from all staff canteens and the introduction of a Conscious Cup Campaign. South Dublin County Council will also work with Refill Ireland which aims to reduce our dependence on single use drinking bottles. The aim in 2019 is to work with Refill at an event in our functional area and to grow on this and to demonstrate there is an alternative to single use plastics in these types of events.

Other submissions relate to waste management solutions to be rolled out specifically in relation to businesses. The Local Enterprise Office will carry out further research to engage with stakeholders to promote and develop business supports to encourage reduction of emissions and other climate driven actions, and to develop targets that could be measured on progress being achieved. This may include waste reduction initiatives.

Suggestions regarding the reduction of food waste, waste segregation and the use of the appropriate food waste receptacles are referred to in Actions 6 and 7.

Chief Executives Recommendation:

It is recommended that the following amendments be made to the Draft CCAP.

Action 9: Amend to read: Use Eco Merit programme to advise businesses on reducing waste Promote programmes to advise businesses on reducing waste e.g. Eco-Merit

Action 25: Explore collaboration with stakeholders such as Refill.ie to reduce single use items

SEA Comment

Promotion of circular economy and reduction of waste is consistent with SEOS particularly around material assets and climate change.

AA Comment

This amendment will not have the potential to result in likely significant effects to European Sites.

5.10.5 Submissions Regarding Waste Recycling

 Support and engage with existing programmes that encourage the recycling of materials such as Every Can Counts (<u>www.everycancounts.ie</u>) work with schools, work places, events, organisations to switch to more recyclable materials when granting events permissions/ licenses. (SDCC-CCAP-201902-01)

- Survey telephone kiosks no longer in use and initiate consultation on how these can be put to other purposes such as public art. (SDCC-CCAP-201902-35)
- 3. Install water butts in suitable locations at public buildings. (SDCC-CCAP-201902-35)
- 4. Any café using biodegradable cups should have a dedicated bin for composting such cups on the premises. (SDCC-CCAP-201902-57)
- Consider how SDCC can support sharing economy to reduce consumption. (SDCC-CCAP-201902-67)
- Begin exploratory research on 'cradle to cradle' (C2C) opportunities for south Dublin enterprises (SDCC-CCAP-201902-46)
- 7. The Council should consider the opportunity to use brown bin wastes from the County as feedstocks in anaerobic digestion plants to produce renewable gas. This would help support the circular economy vision which is outlined in section 5.2 of the 'Eastern -Midlands Region Waste Management Plan 2015 –2021'. During 2019, Irish Water will consult on our draft National Water Resources Plan which will identify how we will provide a sustainable, secure and reliable water supply to our customers now and into the future whilst safeguarding the environment. (SDCC-CCAP-201902-25)

Chief Executive Response to Grouping: Waste Recycling

Waste enforcement activities, waste segregation, promotion of zero waste policy (including business), and supply of public bins (including a trial of solar compacting, labelling and recycling) are considered in our Actions.

The Council has run initiatives to encourage repair, recycling and upcycling of clothes, goods and furniture. (Actions 5, 6, 7, 8, 9, 11, 13, 14 and 16 apply).

It would be outside the remit of the local authority to enforce waste recycling outside of the authority provided by the Waste Management Act 1996 as amended. Waste recycling campaigns will continue to educate our citizens to provide informed decisions and responsible choices.

The promotion of a circular economy is considered in Actions 6, 8, and 9.

Chief Executives Recommendation:

It is recommended that the following action be added to the Draft CCAP as follows:

Action 24: Promote recycling and the circular economy to householders through a range of workshops, talks and programmes.

SEA Comment

Promotion of circular economy and reduction of waste is consistent with SEOS particularly around material assets and climate change.

AA Comment

This amendment will not have the potential to result in likely significant effects to European Sites.

5.10.6 Submissions Regarding Waste Prevention

- There appeared to be very little in relation to waste which is a real issue. Possibly having public champions or such. Passionate volunteers who take responsibility for an area. Role being informing the council of concerns and working with them to fix them. (SDCC-CCAP-201902-13)
- 2. There are very little initiatives in place to encourage managing waste properly in the work place. I would like to propose that more obligatory training or workshops are put in place for offices to attend, as well as companies so that people understand the effect of all of their waste going into one bin and avoiding recycling and compost bins. This obviously has a huge negative impact on waste for our country as people are in work more than they are at home in a lot of cases. This should be addressed (SDCC-CCAP-201902-15)
- 3. Bins need to be of adequate capacity and not accessible to wildlife (foxes, seagulls etc) who cause considerable litter problems. More litter wardens enforcing fines. Don't be Dick campaign was great, more of this! (SDCC-CCAP-201902-67)
- 4. Annual electrical recycling collections for the public. (SDCC-CCAP-201902-67)
- 5. Measures to reduce waste in the River Liffey, Royal and Grand Canal (SDCC-CCAP-201902-67)

Chief Executive Response to Grouping: Waste Prevention

The Council do not provide annual collection of waste electrical and electronic equipment as this sort of waste can be taken to any retailer that sells a similar item, the retailer is obliged to accept the waste item for recycling, as directed by the Waste Management Act 1996 as amended and the European Union (Waste Electrical and Electronica Equipment) (WEEE) Regulations 2014 as amended.

The Council provide many reduce food waste courses to the general public during Eco Week. Many types of other waste prevention courses are run during Eco Week which is held annually.

Litter Management Plan informs on how the Council deal with litter. The Council support many groups and individuals in their clean ups, providing the H&S clothing, litter picks and bags and the removal of the waste.

Chief Executives Recommendation:

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.10.7 Submissions Regarding Waste Reuse

1. We propose the addition of a 'Reuse education' programme. Ensuring community and corporate members are aware of the potential and benefits of reuse as an alternative. We propose the

creation of an online community resource where up to date relevant information is available on opportunities for reuse, training provided to members of the community and an online calculator where individuals can calculate the amount of resources saved by their reuse to encourage participation. (SDCC-CCAP-201902-16)

- 2. As an aspect of SDCC's current involvement in the Conscious Cup campaign I would suggest that participation in this campaign be made a condition of the granting of a licence to any cafe / market stall operating in any SDCC property including public parks and that SDCC work with adjacent councils with parks nearby used by SDCC residents e.g. Bushy Park. Likewise, market stall licence holders selling take away food should be required to use recyclable food containers. (SDCC-CCAP-201902-26)
- 3. Explore grey water options for toilets, washing machines, garden watering and car washing facilities (SDCC-CCAP-201902-46)
- 4. Create initiatives that encourage residents to get involved in composting (SDCC-CCAP-201902-46)

Chief Executive Response to Grouping: Waste Reuse

Through South Dublin County Council Litter Management Plan many waste reuse campaigns are brought to fruition. Eco week hosts many courses including a course on Master Composter, food, grey water recycling.

It would be outside the remit of the local authority to enforce waste reuse outside of the authority provided by the Waste Management Act 1996 as amended. Waste reuse campaigns will continue to educate our citizens to provide informed decisions and responsible choices.

Chief Executives Recommendation:

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.10.8 Submissions Regarding Engagement

- 1. The plan needs greater ambition to not just inform the public on climate change but to support and enable behaviour change. (SDCC-CCAP-201902-02)
- Climate Change Awareness Climate Ambassadors are a perfect match to help with this aspect.
 To deliver talks & workshops to the SDCC staff, schools and wider community. (SDCC-CCAP-201902-11)
- Host annual climate festival to bring the public, local authority and businesses and NGO's together, to share ideas, raise awareness and to celebrate best practice. (SDCC-CCAP-201902-11)

4. The following observations are focused on citizen action and climate mitigation measures. Public Awareness and Advocacy or Citizen and Community Engagement. The report does say there is an action to engage and inform citizens. 'as public awareness is key to tackling both climate adaptation and mitigation, South Dublin County Council commits through this plan to address the current knowledge-gap and will encourage citizens to act on climate change through a range of awareness and behavioural change actions....'

With a target to: 'Actively engage and inform our citizens on climate change' and 'Finally, as citizens are crucial for solutions to climate change, SDCC will set out to actively inform and engage the public, through a range of innovative programmes and partnerships and, where possible, facilitate bottom-up, community-led solutions.' 'County development plans, local area plans and Strategic Development Zone (SDZ) planning schemes can address climate change issues at a local level. This CCAP is cognisant of the role that the DLAs must play in increasing citizen awareness and participation in climate solutions and the unique position that local government holds in interacting with its citizens.' Public participation and encouraging environmentally friendly living is paramount to slowing, if not halting climate change. Behavioural change is needed, and sooner rather than later. All actions are beneficial, and everyone has a role to play no matter how big or small. It is recognised that a public awareness strand runs through all the action areas. The report would benefit from being explicit in the area of public actions with a sixth action area titled Public Awareness and Advocacy. This section would solely focus on public awareness, knowledge building, and advocacy. Everyday actions that can be taken by the public could be outlined. There are existing networks which could be leveraged to encourage community and individual actions. Programme could be run featuring different aspect of living and the range of actions that could be taken from no cost to high cost actions.

The Council could look to establish:

- climate action ambassadors within communities embedded in community led volunteer groups
- climate action network comprising community led volunteer groups such as Tidy Towns, Residents Groups, etc.
- tap into the Local Authority Water and Communities Office and any other relevant government agencies and
- Information provision website, talks, leaflets, campaigns, local newsletters, local papers
- Explicit links to national and EU plans
- Climate Action topic weeks/ months on different aspects of living and actions that can be taken. (SDCC-CCAP-201902-20)
- Residents' Associations are a potential resource for SDCC for raising public awareness of relevant climate action initiatives. A section on SDCC website, for example the News section, could contain up to date information on such initiatives in a format easily transferable to Residents' Associations' newsletters and/or websites. (SDCC-CCAP-201902-26)
- 6. Education of SDCC staff, Ideas forum for SDCC staff to submit ideas for actions to reduce energy consumption, use of single use plastic (e.g. to bag rubbish/cleaning pathways waste), use of

imported materials / food, waste, pesticide use, etc. in the carrying out of their work. (SDCC-CCAP-201902-32)

- 7. Education of the general public, Climate Action Roadshow for DLA areas to educate the public on what actions SDCC is taking, what actions the public can take, what support / help is available from SDCC and other bodies. Information on screen in public buildings waiting areas, libraries, etc. Ideas forum for the general public to contribute ideas on CC action via SDCC website. (SDCC-CCAP-201902-32)
- 8. That SDCC actively engage with residents groups and schools and Clubs/groups in the promotion and planting of trees and explains the importance of trees (SDCC-CCAP-201902-56)
- That SDCC Encourage areas for pollination that encourage Bees and again that SDCC actively engage with residents groups and schools and Clubs/groups in the promotion and explains the importance of Bees (SDCC-CCAP-201902-56)
- 10. That SDCC actively engage and promotes the establishment of Tidy Towns in all areas to combat litter and improve our areas (SDCC-CCAP-201902-56)
- 11. Establish a local business award for local businesses who change their production to closed loop systems and repurposing in terms of resource/raw material use or in the produce area for those who set up refill / zero waste systems for selling produce to their customers, e.g. using reusable cotton bags for rice, nuts, beans etc. and jute bags for loose potatoes, onions and other fresh produce. (SDCC-CCAP-201902-57)

Chief Executive Response to Grouping: Engagement

South Dublin County Council and the other Dublin LAs received a number of submissions requesting additional public and citizen engagement across a range of climate change issues. Issues raised in submissions include: the need for more citizen information on grants, public advertisements, workshops on climate change, integration of climate change with educational curriculum and related funding, communication of climate change projects to the public, engagement with younger citizens, behavioural change campaigns, the need for diverse stakeholder engagement, links to international programmes, the need for climate change teams, summits and community development structures. (Actions 5, 6, 7, 8, 9, 11, 13, 14,16 and 18 apply).

New text will be added to the CCAP under 'Public Awareness' to address this.

Chief Executives Recommendation:

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

5.10.9 Submissions Regarding Grants and Supports

- Expand community gardens into derelict areas, local parks, grass verges, hedge rows etc. Perhaps provide training & grants to vulnerable sectors to encourage engagement. (SDCC-CCAP-201902-11)
- 2. Ensure LEO's have sustainable projects only on their books. Perhaps extra grants to sustainable start-ups? (SDCC-CCAP-201902-11)
- 3. That SDCC initiate a recycling week and again actively promote and encourage (SDCC-CCAP-201902-56)
- 4. Support farmers markets. (SDCC-CCAP-201902-67)

Chief Executive Response to Grouping: Grants and Supports

Through the Councils Eco Week many courses are provided to the public, hosted by SDCC in collaboration with our partners (Actions 5, 7 and 14 apply).

Grants continue to be available and supplied through the Council. Community gardens etc are considered under this grant scheme (Actions 5 and 14 apply).

The Local Enterprise Office carries out research to engage with stakeholders to promote and develop business supports to encourage reduction of emissions and other climate driven actions, and to develop targets that can be measured on progress being achieved. This may include waste reduction initiatives (Action 9).

South Dublin County Council supports farmers markets.

Chief Executives Recommendation:

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.10.10 Submissions Regarding Veganism

- Although SDCC obviously does not engage in agriculture it has canteens where there are choices
 with regard to the CO2 intensity of the food on offer. SDCC could for example join Paul
 McCartney's 'Meat Free Monday' campaign i.e. having no meat on the menu in its eating areas on
 Mondays. This symbolic gesture can highlight the very high emissions associated with meat
 production as opposed to dairy of plant-based meal production and the other health and
 environmental benefits of reducing meat consumption. (SDCC-CCAP-201902-28)
- 2. Increase vegan and vegetarian food choices across all SDCC buildings and events and even host some events completely as vegan/vegetarian. (SDCC-CCAP-201902-11)

Chief Executive Response to Grouping: Veganism

A number of submissions to DLA were received which recommended that the Council promote a plant based diet to citizens and suggested removing incentive for dairy and animal farming and providing supports to businesses to become meat free.

Whilst the Intergovernmental Panel on Climate Change (IPPC)'s Synthesis Report on the final part of its Fifth Assessment Report (AR5) does detail that diet has significant potential to reduce GHG emissions from food, it is the role of the Department of Health (through its policies and initiatives such as Healthy Ireland) and the not the local authority to provide dietary advice. It is not the remit of the local authority to provide dietary advice and as such is outside the remit of the CCAP.

Inventive schemes for food production fall within the remit of the Department of Agriculture and as such is outside the remit of the CCAP.

Chief Executives Recommendation:

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

Table 5.7 Action Area: Resource Management - Summary of amendments to actions and new actions

Resource Management	Recommendation	
1	No Change	
2	No Change	
3	No Change	
4	No Change	
5	No Change	
6	No Change	
7	No Change	
8	No Change	
9 Use Eco Merit programme to advise businesses on reduci		
	Promote programmes to advise businesses on reducing waste e.g. Eco- Merit	
10	No Change	
11	No Change	
12	No Change	
13	No Change	
14	No Change	
15	No Change	
16	No Change	
17	No Change	
18	No Change	
19	No Change	
20	No Change	
21	No Change	
22	No Change	
23	No Change	
24	Promote recycling and the circular economy to householders through a range of workshops, talks and programmes	
25	Explore collaboration with stakeholders such as Refill.ie to reduce single use items	

5.11 Milestone 4: Implementation

Submissions relate to open and transparent implementation of the CCAP, assessment of climate actions, short to long term implementation of actions and the need for immediate action on climate change.

Milestone 4 of the Draft CCAP relates to Implementation.

The CCAP includes a range of climate actions across the five theme areas of Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management. Having regard to submissions received, it is noted that the timescale for action implementation and the Council department responsible, is also indicated in the CCAP. Actions are to be implemented by the Council in the short, medium and longer term.

The Council has established a cross-departmental Climate Team who will be responsible for implementing the actions included in the CCAP. The development and implementation of CCAP actions will be supported by both Codema and the Dublin Climate Action Regional Office. Codema will provide ongoing support to the CCAP in the areas of research, planning, technical assessment, cost benefit analysis, procurement, project management, funding applications and communications. The Dublin CARO will work with all four Dublin local authorities in implementing CCAP actions, including developing research opportunities and pilot project across the four Dublin local authorities. The CARO will also have a role in reviewing action implementation across the four Dublin local authority CCAPs.

In implementing the CCAP, the Council will adhere to current best practice guidelines in this area, including The Covenant of Mayors for Climate and Energy Reporting Guidelines. This includes monitoring actions with regard to staff resourcing, action budget allocation, stakeholder and citizen engagement, CO2 emissions reduction etc.

It is considered that the implementation of the CCAP is adequately addressed in the Draft Plan.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

5.12 Milestone 5: Monitoring and Iteration

Submissions relate to implementation timescale to 2030, the need to ensure energy target monitoring and compliance, measurable and time-bound actions, clarity regarding baselines and the need for quality data analytics.

Milestone 5 of the Draft CCAP relates to Monitoring and Iteration.

The CCAP will be updated on an annual basis, with a review and revision every five years. At each revision the updated CCAP will take account of demographic, technical and other changes that have occurred and any new targets that have been introduced. Updated data in relation to action monitoring and iteration will form part of the CCAP review process.

As the Council is a signatory to the EU Covenant of Mayors for Energy and Climate, this CCAP will be submitted to the Covenant to fulfil participation protocols. This commitment initiates the beginning of a long term process, whereby the Council will be committed to reporting every two years to the Covenant of Mayors, on the implementation progress of the Plan.

In implementing and monitoring the CCAP, the Council will adhere to current best practice guidelines in this area, including The Covenant of Mayors for Climate and Energy Reporting Guidelines. This includes monitoring actions with regard to staff resourcing, action budget allocation, stakeholder and citizen engagement, CO₂ emissions reduction etc. This can also include a Monitoring Emissions Inventory which tracks progress in CO₂ emissions and energy demand reduction when compared to the CCAP baseline year.

It is considered that the implementation, timescales, monitoring and iteration of the CCAP is adequately addressed in the Draft Plan.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

5.13 Strategic Environmental Assessment (SEA) and Appropriate Assessment (AA)

SEA and AA Response
•
A section in the Final CCAP will be included that provides information on how the SEA and AA has influenced the plan process. Strategic Environmental Assessment (SEA) is a statutory process, involving the systematic evaluation of the likely significant environmental effects of implementing the new Climate Change Action Plan before a final decision has been made to adopt it. SEA applies to environmental assessment of plans and strategic actions that influence and set the framework for projects. The EU Directive on Habitats (92/43/EEC) (the Habitats Directive) as transposed into Irish law through

Submissions on the Environmental Report	SEA and AA Response
	assessment as to whether the
	implementation of a plan is likely to
	have significant effects on any Natura
	2000 site(s).
	The CCAP was screened to determine
	whether it has any significant impact
	on any Natura 2000 site. This
	screening determined that stage 2
	Appropriate Assessment was required.
	It should be noted that whilst the AA
	is a statutorily separate process to the
	SEA, it is, in fact, a parallel process
	and as such the outcomes of the AA
	fed into and informed the SEA
	process outlined above.
	The SEA and AA processes have
	worked together to influence of plan
	preparation and the SEA process
	highlights where particular
	environmental sensitivities arise, and
	also make recommendations as to
	how proposed actions may be
	improved to increase their
	environmental performance.
	Proposed changes to the CCAP
	through the Chief Executives Report
	have been screened for SEA and AA to
	ascertain if likely significant
	environmental effects or significant
	effects on European sites would arise.

Submissions on the Environmental Report	SEA and AA Response
	Both processes have identified
	additional mitigation measures for
	the CCAP and the SEA has also
	provided for a monitoring regime,
	which is included within this CCAP All
	mitigation measures identified for
	the CCAP through the SEA and AA
	process will be adhered to and
	implemented over the course of the plan.
Assessment of Alternatives	Noted.
We welcome that the EPA 'Developing and Assessing Alternatives in Strategic	
Environmental Assessment' (2015) guidance document has been considered in	
preparing and assessing alternatives. We also note the alternatives considered in the	
SEA, and the selection of the preferred alternative	
Additional Plan Considerations	Noted and agreed.
Irish Water's Draft National Water Resources Plan should be useful to refer to, in terms	Chapters 4 and 7 of the SEA ER will be
of ensuring security of drinking water supply within the Plan area, is also considered. This	expanded in the material assets
plan includes consideration of climate change impacts. Aligning adequate and	section to discuss this.
appropriate critical service infrastructure and population / economic growth of the	Chapter 3 will include reference to the
Dublin region is essential.	Draft National Water Resources Plan
The link between the Plan and the sectoral adaptation plans could also be expanded on.	Noted and agreed.
This would clarify the alignment between the plan and other higher level sectoral plan.	Chapter 3 of the SEA ER will expand
CONTROL AND STORY CONTROL AND	upon this and the links to other high
	level sectoral plans where appropriate
Mitigation Measures	
We acknowledge the SEA recommendations, to improve the Plan in terms of integrating	Noted, not pertinent to SDCC.
wider environmental considerations into the Plan. We note the recommendation to	
prepare and implement a coastal zone management plan for Dublin Bay. This should be	
prepared in collaboration with relevant stakeholders and consider the requirements of	
 the SEA and Habitats Directives, as appropriate.	

Submissions on the Environmental Report	SEA and AA Response
In relation to the application of strategic urban drainage systems as part of flood risk	Noted.
management actions described, these should be supported by relevant monitoring and	The SEA recommends that interval
maintenance also to ensure they operate effectively over the lifetime of the Plan.	monitoring and maintenance of
	strategic urban drainage systems be undertaken.
Where the potential for likely significant effects is identified, appropriate mitigation	Noted – it is recommended that as
measures should be recommended and implemented, to avoid or minimise these.	part of the text on the influence of the
You should ensure that the Plan includes clear commitments to implement these mitigation measures	SEA and AA on the plan preparation, a specific commitment is included
	regarding mitigation measures and
	adherence to same. Please see the
	CCAP for this commitment as
	addressed in Point 2 SEA and Plan
	Integration above.
Monitoring	SEA recommends inclusion of the
The Monitoring Programme should be flexible to take account of specific environmental	Monitoring Table in the final Plan.
issues and unforeseen adverse impacts should they arise. It should consider and address	The introduction to Chapter O
the possibility of cumulative effects. Monitoring of both positive and negative effects	The introduction to Chapter 9
should be considered. We welcome that the proposed SEA monitoring programme sets	monitoring of the SEA ER highlights additional monitoring in the event of
out the various data sources, monitoring frequencies and responsibilities. We recommend that the SEA Monitoring of environmental receptors, as set out in Table 12	unforeseen and cumulative effects
(Chapter 9 - Monitoring) of the SEA, is incorporated into the Plan review to monitor how	arising.
effectively environmental considerations are being implemented.	urising.
Where possible, additional information on monitoring and indicators of the transition	Noted,
should be considered to ensure that resources continue to be appropriately directed and	Given that the SEA monitoring table
to help avoid unintended secondary adverse impacts	will provide environmental monitoring
	of the CCAP as well as annual
	monitoring of the CCAP, it is
	considered sufficient at this point to
	capture the transition based on annual

Submissions on the Environmental Report	SEA and AA Response
	monitoring of the action plan, supported by SEA monitoring.
The potential for environmental impacts of 'grey' and 'green' adaptation options will differ. Where 'grey' adaptation options are chosen / proposed to be implemented, these should be adequately mitigated for, to minimise potential adverse significant environmental effects.	Noted and agreed. Mitigation Measures for 'grey' infrastructure will be highlighted in the Final SEA ER.
Should the monitoring identify adverse impacts during the implementing the Plan, SDCC should ensure that suitable and effective remedial action is taken.	Noted, this statement is included in the SEA ER.
It is noted in Milestone 5 that the Plan will be monitored and updated on an annual basis, with a review and revision every 5 years. Any updates to the Plan, should be screened in the context of SEA and Appropriate Assessment requirements	Noted, this statement will be included in the final CCAP, see also proposed text below
Monitoring should capture the overall achievement of the actions set out in the Plan and the contribution to the overall combined actions and targets of the four local authority plans.	Noted. It is recommended an additional text be provided to the above to highlight consistency with the requirements of the SEA Directive and reflecting the submission by the EPA, as follows:
	Monitoring at local authority level is in line with current best practice such as EU Covenant of Mayor's approach. Each CCAP will be submitted to the Department of Communications, Climate Action and Environment. Under current obligations monitoring
,	is adequately addressed in the CCAP and SEA. In addition, this may be premature in light of forthcoming Final Eastern Midland and Regional Spatial and Economic Strategy and

	Submissions on the Environmental Report	SEA and AA Response
		upcoming Whole of Government Climate Action Plan.
	Future Amendments to the Plan You should screen any future amendments to the Plan for likely significant effects, using the same method of assessment applied in the "environmental assessment" of the Plan.	Noted, and agreed. See above text which addresses this point.
	SEA Statement — "Information on the Decision" Once the Plan is adopted, you should prepare an SEA Statement that summarises: How environmental considerations have been integrated into the Plan; How the Environmental Report, submissions, observations and consultations have been taken into account during the preparation of the Plan; The reasons for choosing the Plan adopted in the light of other reasonable alternatives dealt with; and, The measures decided upon to monitor the significant environmental effects of implementation of the Plan.	Noted, the SEA Statement will be prepared and issued upon adoption of the CCAP.
	You should send a copy of the SEA Statement with the above information to any environmental authority consulted during the SEA process.	Noted and agreed.
Dylan Potter , 0	Geological Survey Ireland	
	Geoheritage Information provided on Geoheritage data.	
	Groundwater With regard to Flood Risk Management, there is a need to identify areas for integrated constructed wetlands. We recommend using the GSI's National Aquifer and Recharge maps on our Map viewer to this end.	Noted, this will be highlighted in the SEA ER and Action 11 of the SDCC CCAP – Action 11 of the SDCC CCAP states: Integrated constructed wetlands for water attenuation and purification.
	Urban Geology As the proposed developments take place in an urbanized environment, we suggest looking at our Urban Geology section on our website. Geological Survey Ireland produces urban geoscience data on a project basis, informing the areas of soil geochemistry and contamination, 3D modelling of ground conditions, and assessing ground motions that	Noted-

Submissions on the Environmental Report	SEA and AA Response
present a hazard to citizens in the urban environment. We also have a GeoUrban section to our Map Viewer which covers the Greater Dublin Area.	
Nature based solutions should be considered even in an urban environment. For example, an analysis of soil sealing could be done to determine levels of permeability in the Greater Dublin Area. We recommend using the GSI's Quaternary subsoil map and geotechnical database for this task.	
Coastal Vulnerability Vulnerability of the coast is intimately correlated to its characteristics and the intricate physical processes that intervene on its evolution. Strategies for coastal protection should include information from local to regional coastal vulnerability and impact assessments. Geological Survey Ireland is undertaking a new coastal vulnerability to sealevel rise mapping initiative. The maps produced in this project will aim to identify the coastal regions most likely to be affected by impacts of seal-level rise by using a coastal Vulnerability index (CVI) approach. Areas of assessment will include getting up-to-date information on current state of coastal defences, records of areas of inundation during extreme events for validating models and access to quality controlled and publically available tide gauge records for Dublin Bay.	Noted. Reference to this data, modelling and the Coastal Change for Space research project will be included in the SEA ER
Management strategies for adaptation should be flexible and centred on monitoring the most vulnerable areas. Monitoring short and long-term responses in soft cliffs, such as shoreline and sediment volumetric changes is key to understand coastal behaviour and to validate forecasting models. The current ESA (European Space Agency) funded coastal erosion project (Coastal Change from Space), which GSI is a partner will extensively look at some of these issues over the next two years (2019-2021). This project will provide an intertidal extent model and shoreline extraction tools, will monitor sediment change in the near shore using primarily satellite derived bathymetry, and quantify backshore to foreshore sediment volumetric change over the last 20 years for targeted areas.	

	Submissions on the Environmental Report	SEA and AA Response
Oonagh Duggar	n, BirdWatch Ireland	
	5.0 Biodiversity Adaptation to Climate Change Ireland's draft Biodiversity Sectoral Climate Change Adaptation Plan8 which is subject to public consultation until April 17 2019 states that 'Irish biodiversity is highly vulnerable to the impacts of climate change and has a low adaptive capacity compared to other vulnerable sectors. Climate change has major indirect impacts on Irish biodiversity through its interaction with other stressors, in particular habitat fragmentation and loss; overexploitation; pollution of air, water and soil; and spread of invasive species'. We would encourage that the local authority or CARO would review the final national biodiversity action plan when it is completed to ensure coherence between plans for the Greater Dublin Area with the national biodiversity adaptation plan.	Noted, the SEA ER Chapter Three will reference the draft Biodiversity Sectoral Climate Change Adaptation Plan along with any other required updates. Chapter 4 of the SEA ER will restate this finding and highlight same as a key issue and challenge.
	6.0 Waterbirds and Sea Level Rise In 2013 BirdWatch Ireland published a report on the Impacts of Sea-level Rise on the Birds and Biodiversity of Key Coastal Wetlands9. The report assessed the level of risk posed to each of 52 waterbird species by increasing sealevels such that those risks are: o high for species with wholly coastal species distributions and which rely on intertidal habitats (such as Shelduck Tadorna Knot Calidris canutus and Sanderling Calidris alba),to medium for species as above but that can feed in alternative locations, such as on grasslands (Light-bellied Brent Goose Branta bernicla hrota, Oystercatcher Haematopus ostralegus and Black-tailed Godwit Limosa limosa) and for those with predominantly coastal distributions but which are localised in Ireland (Greenland White-fronted Goose Anser albifrons flavirostris and Bewick's Swan Cygnus columbianus bewickii), and too low for other waterbirds whose distributions are not restricted to the coast (e.g. Teal Anas crecca, Golden Plover Pluvialis apricaria and Lapwing Vanellus vanellus) or which occur predominantly in deeper water (e.g. Red-throated Diver Gavia stellata, Great Crested Grebe Podiceps cristatus, Cormorant Phalacrocorax carboand Common Scoter Melanitta nigra)	Noted. These comments will be included in the final SEA ER. The mitigation measure proposed in relation to retrofitting of housing and swifts is recommended for inclusion in the CCAP.

Submissions on the Environmental Report	SEA and AA Response
In addition, the report states that 'Coastal sites are under increasing pressure from a	
range of anthropogenic sources such as human development, fisheries, aquaculture and	
human recreation. It is likely that these factors will operate cumulatively with the effects	
of climate change. There is an increasing need to understand the cumulative nature of	
pressures already operating at our coastal sites and to predict how this may be exacerbated by future sea-level rise'.	
Dublin Bay is the fourth most important site in the country for wintering waterbirds. It is	
critical that research is undertaken on the climate change impacts to waterbirds within	
Dublin City but also within the context of the Greater Dublin area where there is significant movement of species between wetlands.	
4. Internationally important migratory species such as Brent Geese can utilise the playing	
pitches including those of school grounds to forage when eel grass supplies have reduced	
at coastal sites. These areas are hugely important within a climate change adaptation	
scenario for Brent in the future and need to be secured.	
7.0 Breeding river birds	
Dublin's rivers and associated habitats are known to contain breeding Annex 1 Kingfisher,	
Dipper, Grey Wagtail, and Sand Martin. In order to protect nest sites and to provide	
adaptation solutions under a changing climate but also within the context of any flood	
mitigation measures, BirdWatch Ireland recommends that further survey work	
isundertaken to determine where these birds are breeding so as to conserve and improve	
breeding sites and also to prepare an evidence-based report on appropriate adaptation	
measures for these important species. Ensuring that river ecosystems are healthy and	
support fish and insect populations stocks is also critical as these are food sources for	
these bird species.	
8.0 Breeding Swifts	
Within a climate change context, BirdWatch Ireland is concerned that with the potential	
for deep-retrofit, energy-saving projects that some Swift breeding sites may be lost due	
to construction work. It is really important that Swift breeding sites are investigated in	
Dublin and that any works to buildings with known breeding sites include actions such as	
insertion of 'Swift bricks' to provide alternative nesting sites for them. All new builds or	
deep retrofit programmes should also include Swift bricks in those projects. BirdWatch	

Submissions on the Environmental Report	SEA and AA Response
Ireland's publication Saving Swifts is due out in 2019 and will help inform the conservation of Swifts in Ireland."	
9.1 The Natura Impact Report lists that the NIR for the East Midlands Regional Spatial and Economic Strategy (RSES) has been concluded and that there are no significant adverse impacts on the European sites in this area. However, the RSES has been reopened for public consultation due to material developments which alter the original plan distributed for consultation. Further, these actions have been subject to Article 6.3 assessment, but the final plan has not been agreed.	AA: The material amendments and reopening of the RSES is noted, and its status will be assessed as part of the updating to the draft CCAP, NIS and SEA ER.
It is premature to state that as the NIR does that there are no impacts as the plan is not finalised since it is not clear if mitigation actions within the NIR will be incorporated into the final plan.	The Mitigation Actions within the NIS will be incorporated into the final plan.
9.2 There is no mention of the requirements of Article 4(4) of the Birds Directive the second sentence of which states 'Outside these protection areas, Member States shall also strive to avoid pollution or deterioration of habitats'. There is no reference to the requirement that local authorities must strive to avoid the deterioration of the habitats of Annex 1 bird species found outside of European sites. In addition, it is important to recall that the Birds Directive also calls for protection of birds in the wider countryside (outside of SPAs) and this is detailed further in the NPWS Programme of Measures to address compliance issues in C-418/04. All efforts must be made to enforce the regulations to support birds in the wider countryside.	Noted, this will be included in the SEA ER and the NIS.
9.3 BirdWatch Ireland would like clarification on the statement in the NIR that there will be no significant adverse effects on the European sites when it is unclear whether the suggestions in Table 7.2 will be incorporated into the final plan. This element of doubt means that NIS is open to challenge. The suggested text is NOT in the draft climate action plan submitted for consultation. We would appreciate clarification of this.	Noted, for clarification the mitigation measures in Table 7.2 will be included in the final plan.

RECOMMENDED MITIGATION MEASURES FOR THE SOUTH DUBLIN CCAP - REVISED

These Mitigation Measures were identified in Section 7 of the Natura Impact Statement and Section 8 of the SEA ER and will also be included in the final SEA Environmental Report and AA Natura Impact Statement.

	Mitigation Measure	Included in CCAP? Yes/ no				
	An integrated approach to decision making in relation to these climate change actions is recommended.					
	Transport Actions					
5	Strengthen traditional villages by improving the public realm through enhancement of green infrastructure measures and sustainable transport linkages					
	Flood Resilience					
13	Develop template to capture impacts, response and costs (including ecosystem services/natural capital costs) for all major climate events	Yes				
15	Update DLA urban drainage and flooding policies for current knowledge of Yes flood risk and the latest best practice in drainage design promoting natural flood measures as a priority					
20	Minor flood schemes and general maintenance that are designed and implemented to promote nature based solutions where practical	Yes				
21	Communication and awareness campaigns on flood risk management and natural flood management measures	Yes				
	Nature Based Solutions					

5.14 General Comments

5.14.1 Citizen and Community Engagement

A number of submissions request the need for additional public and citizen engagement across a range of climate change issues. Issues raised in submissions include: the need for more citizen information on grants, public advertisements, workshops on climate change, integration of climate change with educational curriculum and related funding, communication of climate change projects to the public, engagement with younger citizens, behavioural change campaigns, the need for diverse stakeholder engagement, links to international programmes, the need for climate change teams, summits and community development structures.

The Council recognises the importance of public and stakeholder engagement in addressing climate change. A number of Draft CCAP actions relate to citizen awareness and behavioural change campaigns. In recent months, there has been a range of citizen and community engagement initiatives carried out from national to local level. The Department of Communications, Climate Action and Environment has established the National Dialogue on Climate Action, to drive citizen engagement in climate action across Ireland. Co-ordinated by the EPA, the objectives of the National Dialogue on Climate Action are to:

- Create awareness, engagement and motivation to act (locally, regionally and nationally) in relation to the challenges presented by climate change;
- Create structures and information flows to facilitate people gathering to discuss, deliberate
 and maximise consensus on appropriate responses to these challenges, and to enable and
 empower appropriate action;
- Establish, on a long term basis, appropriate networks for people to meet periodically to consider evidence-based inputs on the economic, social, behavioural, environmental and public aspects of climate and energy policy; and
- Provide regular input, through the NDCA, into the prioritisation and implementation of climate and energy policy which can be reported and monitored at local/regional/national levels.

To date two regional NDCA workshops have been carried out, in Athlone (June 2018) and Tralee (November (2018). A range of local and community initiatives have also been undertaken across the country, including Climate ambassadors, Green Schools, Eco Merit, ECO-UNESCO etc.

It is recognised that there is a need to foster and build momentum on wider citizen engagement in climate change, across all age groups. Local authorities have significant experience in engaging citizens through their existing functions, including land-use planning, housing, water quality, employment, transport and environmental efficiency. Local authorities are also engaged in existing public participation structures and approaches that are bottom-up, local community centred and are outcome focused. These include the Public Participation Networks, Local Community Development Committees (LCDP), Tidy Towns, Waters and Communities Office, Sustainable Energy Communities etc.

In implementing and updating the CCAP into the future, strengthening existing networks and creating new climate change links, should be maximised to encourage all citizens, communities and other stakeholders to have increased access to information and advice. Interest areas could include identification and implementation of relevant energy efficiency measures, renewable energy actions, climate adaptation and resilience measures, access to funding sources such as SEAI grant schemes, the Climate Action Fund etc.

Local authority efforts in citizen and community engagement should be supported by the Climate Action Regional Office, the Environmental Protection Agency and other relevant stakeholders. It is part of the CARO remit to engage and support the National Dialogue on Climate Action on a local and regional basis, and also to develop education and awareness initiatives for the public, professionals, schools, NGOs and other agencies engaged in driving the climate change agenda.

Having regard to the submissions made, it is considered that the Council, in collaboration with the Climate Action Regional Office and other relevant stakeholders should, enhance links with existing community participation structures and networks, to increase citizen engagement in climate change. It is also considered that information on the public information events undertaken during the public consultation of the Draft CCAP should be included as a case study in the Plan.

Chief Executive's Recommendation

It is recommended that the following amendment be made to the Draft CCAP as follows:

Under 'Public Awareness' section the following text shall be added:

The Council recognises the importance of public and stakeholder engagement in addressing climate change. In recent months, there has been a range of citizen and community engagement initiatives carried out from national to local level. The Department of Communications, Climate Action and Environment has established the National Dialogue on Climate Action, to drive citizen engagement in climate action across Ireland. Co-ordinated by the EPA, the objectives of the National Dialogue on Climate Action are to:

- Create awareness, engagement and motivation to act (locally, regionally and nationally) in relation to the challenges presented by climate change;
- Create structures and information flows to facilitate people gathering to discuss, deliberate and maximise consensus on appropriate responses to these challenges, and to enable and empower appropriate action;
- Establish, on a long term basis, appropriate networks for people to meet periodically to consider evidence-based inputs on the economic, social, behavioural, environmental and public aspects of climate and energy policy; and
- Provide regular input, through the NDCA, into the prioritisation and implementation of climate and energy policy which can be reported and monitored at local/regional/national levels.

To date two regional NDCA workshops have been carried out, in Athlone (June 2018) and Tralee (November (2018). Separate to the NDCA, a range of local and community initiatives have also been undertaken across the country, including Climate ambassadors, Green Schools, Eco Merit, ECO-UNESCO etc.

It is recognised that there is a need to foster and build momentum on wider citizen engagement in climate change, across all age groups. Local authorities have significant experience in engaging citizens through their existing functions, including land-use planning, housing, employment, transport and environmental efficiency. Local authorities are also engaged in existing public participation structures and approaches that are bottom-up, local community centred and are outcome focused. These include the Public Participation Networks, Local Community Development Committees (LCDP), Tidy Towns, Sustainable Energy Communities etc.

Younger citizens have also engaged with the climate change agenda by participating in the #FridaysForFuture campaign, including rallies outside Government buildings. The Council aims to develop further links with younger citizens in enhancing climate change awareness and developing educational initiatives in partnership with schools, and youth organisations such as Comhairle na nÓg and Foróige.

In implementing and updating the CCAP into the future, strengthening existing networks and creating new climate change links, should be maximised to encourage all citizens, communities and other stakeholders to have increased access to information and advice. Interest areas could include identification and implementation of relevant energy efficiency measures, renewable energy actions, climate adaptation and resilience measures, access to funding sources such as SEAI grant schemes, the Climate Action Fund etc.

Local authority efforts in citizen and community engagement should be supported by the Climate Action Regional Office, the Environmental Protection Agency and other relevant stakeholders. It is part of the CARO remit to engage and support the National Dialogue on Climate Action on a local and regional basis, and also to develop education and awareness initiatives for the public, professionals, schools, NGOs and other agencies engaged in driving the climate change agenda.

Insert #Councils4Climate Action case study text based on outcomes of public consultation events.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.2 CCAP development and CCAP Targets

Submissions relate to the methodology for the CCAP development and how the targets were established. The National Adaptation Framework (NAF) was published in January 2018. This sets out the national strategy to reduce the vulnerability of the country to the negative effects of climate change and to avail of positive impacts. The NAF was developed under the Climate Action and Low Carbon Development Act 2015. The NAF outlines a whole of government and society approach to climate adaptation in Ireland. Under the NAF a number of Government Departments are required to prepare sectoral adaptation plans in relation to a priority area for which they are responsible. Under the NAF, each Local Authority is also required to make a local adaptation strategy by 30th September 2019. Accordingly, each of the four Dublin local authority has prepared a Draft Climate Change Action Plan, which will be approved by the Council, and submitted to the Department of Communications, Climate Action and Environment.

With regard to CCAP targets, it is noted that the Draft CCAP has been prepared to address the following specific climate change targets:

- A 33% improvement in the Council's energy efficiency by 2020; and
- A 40% reduction in the Council's greenhouse gas emissions by 2030.

In Ireland, the public sector has mandatory energy efficiency targets. It is set in the context of Ireland's EU and national commitments and wider climate change goals, whereby a target of 33% energy efficiency improvement is to be achieved by all Irish public bodies (as defined in Statutory Instrument 426 of 2014) by 2020. Public bodies are required to report annual energy efficiency data to the Sustainable Energy Authority of Ireland (SEAI) which manages the reporting process on behalf of the Department of Communications, Climate Action and Environment (DCCAE). There is currently no statutory requirement to undertake sectoral mitigation plans, including revised sectoral, local authority emissions reductions targets.

Being a signatory to the EU Covenant of Mayors for Climate & Energy, the Council has voluntarily committed to a 40% reduction in the Council's greenhouse gas emissions by 2030. Across Europe, signatory cities pledge action to support implementation of the EU 40% greenhouse gas-reduction target by 2030 and the adoption of a joint approach to tackling mitigation and adaptation to climate change.

It is considered that methodology for the CCAP development and how the targets were established is adequately addressed in the Draft Plan.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.14.3 Climate Change Science behind CCAP

A number of submissions relate to the science and evidence base behind climate change and the Draft CCAP. The Draft CCAP Introduction outlines the policy and legislative context under which the Plan has been prepared. At an international level, the Plan has been prepared in line with the Conference of the Parties (COP21) Paris Agreement. This legally binding, global agreement sets out a long-term goal to put the world on track to limit global warming to well below 2 degrees centigrade above preindustrial levels, and to pursue efforts to limit the temperature increase to 1.5 degrees. The Draft CCAP has also been prepared to respond to the findings of the Intergovernmental Panel on Climate Change (IPCC) Report on Global Warming of 1.5 °C, published in October 2018. At a national level the Draft CCAP has been prepared in accordance with relevant national legislation and policy including the Climate Action and Low Carbon Development Act 2015, National Mitigation Plan and National Adaptation Framework and Project Ireland 2040. The Draft Plan has also been prepared in accordance with the Local Authority Adaptation Strategy Development Guidelines, published in December 2018.

To inform the Action Areas, the Draft CCAP includes detailed climate change adaptation and baselines. The adaptation baseline has been prepared using a variety of sources, in particular Met Éireann data the Council's own extreme weather events records. This robust evidence based informed the future

risk matrix included in the Draft CCAP. The mitigation baseline has been prepared using the Council's own energy consumption data, which is used to undertake the annual Sustainable Energy Authority of Ireland (SEAI) Monitoring & Reporting (M&R).

On this basis, and having regard to submissions received relating to the science and evidence based behind climate change, it is considered that the Draft CCAP has been prepared have regard to the appropriate and consensus based policy, legislative and baseline information.

In November 2018, the Minister for Communications, Climate Action and Environment, received a mandate from Government to begin the preparation of a new Whole of Government Climate Action Plan in responding to climate change. It is intended that this new Plan will set out the actions which must be taken to make Ireland a leader in responding to climate change. It is anticipated that the All of Government Plan will have a strong focus on implementation, including actions with timelines and steps needed to achieve actions, assigning clear lines of responsibility for delivery.

The Whole of Government Plan will build on existing policy and will be organised around six themes that focus action across Government in all sectors of the economy that contribute to greenhouse gas emissions. These key themes include:

- · Framework conditions;
- · Adoption of known technologies;
- Addressing market failure;
- · Driving change in business models;
- · Public sector leading by example; and
- · Promoting behavioural change (harnessing the citizen and community effort)

In March 2019, the Oireachtas published its 'Climate Change: a cross-party consensus on climate action' report. This report was informed by the 2017 Citizens' Assembly report, which highlighted a strong desire on the part of citizens for the State to take far more ambitious actions to make Ireland a leader in tackling climate change. The cross-party report includes a range of actions that if implemented in a co-ordinated manner can deliver a substantive and sustained response to climate change and reduction in Ireland's greenhouse gas emissions. The actions in the report are grouped under the following themes:

- Governance,
- Supporting a Just Transition
- Citizen and community engagement
- Education and Communication
- Opportunities
- Incentivising Climate Change
- Energy
- · Agriculture, Forestry and Peatlands
- Built Environment; and
- Transport

It is considered that the implementation, monitoring and future updates of the Climate Change Action Plan should be consistent with and have regard to the actions and recommendations of the Oireachtas 'Climate Change: a cross-party consensus on climate action' report and the Whole of Government Climate Action Plan.

Chief Executive's Recommendation

It is recommended that the following amendment be made to the Draft CCAP as follows:

Under The National Context – Ireland section the following text shall be added:

The implementation, monitoring and future updates of the Climate Change Action Plan will be consistent with, and have regard to the Oireachtas 'Climate Change: a cross-party consensus on climate action' report (March 2019) and the Whole of Government Climate Action Plan.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.14.4 CCAP implementation

Submissions relate to open and transparent implementation of the CCAP to 2030, assessment of climate actions, the need for measurable and time-bound actions, short to long term implementation of actions and the need for immediate action on climate change.

Milestone 4 of the Draft CCAP relates to Implementation.

The CCAP includes a range of climate actions across the five theme areas of Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management. Having regard to submissions received, it is noted that the timescale for action implementation and the Council department responsible, is also indicated in the CCAP. Actions are to be implemented by the Council in the short, medium and longer term.

The Council has established a cross-departmental Climate Team who will be responsible for implementing the actions included in the CCAP. The development and implementation of CCAP actions will be supported by both Codema and the Dublin Climate Action Regional Office. Codema will provide ongoing support to the CCAP in the areas of research, planning, technical assessment, cost benefit analysis, procurement, project management, funding applications and communications. The Dublin CARO will work with all four Dublin local authorities in implementing CCAP actions, including developing research opportunities and pilot project across the four Dublin local authorities. The CARO will also have a role in reviewing action implementation across the four Dublin local authority CCAPs.

In implementing the CCAP, the Council will adhere to current best practice guidelines in this area, including The Covenant of Mayors for Climate and Energy Reporting Guidelines. This includes monitoring actions with regard to staff resourcing, action budget allocation, stakeholder and citizen engagement, CO2 emissions reduction etc.

It is considered that the implementation of the CCAP is adequately addressed in the Draft Plan.

Implementation Timescales and Monitoring of Actions

Submissions relate to implementation timescale to 2030, the need to ensure energy target monitoring and compliance, measureable and time-bound actions, clarity regarding baselines and the need for quality data analytics

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.14.5 CCAP Future Iterations

With regard to submissions received on future iterations of the CCAP; the CCAP will be updated on an annual basis, with a review and revision every five years. At each revision the updated CCAP will take account of demographic, technical and other changes that have occurred and any new targets that have been introduced. As the Council is a signatory to the EU Covenant of Mayors for Energy and Climate, this CCAP will be submitted to the Covenant to fulfil participation protocols. This commitment initiates the beginning of a long term process, whereby the Council will be committed to reporting every two years to the Covenant of Mayors, on the implementation progress of the Plan. Participation in the Covenant of Mayors will also facilitate access to best practice project and benchmarks of excellence initiatives across Europe.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.14.6 Developing best practice in climate change

Submissions relate to developing best practice in climate change. In implementing and monitoring the CCAP, the Council will adhere to current best practice guidelines in this area, namely 'The Covenant of Mayors for Climate and Energy Reporting Guidelines'. This includes monitoring actions with regard to

staff resourcing, action budget allocation, stakeholder and citizen engagement, CO2 emissions reduction etc.

Having regard to submissions received, it is considered that these matters are adequately address in the Draft CCAP.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.14.7 Wider Climate Change Agenda and Urban Sustainability

A number of submissions relate to the interaction between the Draft CCAP, climate change, wider sustainability issues and the need for a holistic and integrated approach to the development of the County as an evolving urban environment. Submissions outline the need for a local authority wide approach to climate change, quality of life including well-being and mental health, the various needs of Dublin citizens, the need for a partnership approach between sectors, the role of younger citizens, family life cycle, human rights and climate justice.

The Draft CCAP has been prepared to demonstrate the Council's commitment to addressing climate change across its own buildings, facilities and operations. The action areas in the Draft CCAP have been organised into the five key areas of Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management. These areas reflect the Council's primary remit, with the aim of fostering greater collaboration across various Council departments. It is the aim of the Council to develop and implement actions that can be replicated by citizens, businesses, and other stakeholders. It is the aim of Council to contribute to the wider sustainable development of the County, by informing and updating citizens through CCAP actions that raise awareness of climate issues and solutions, that will facilitate wider projects and initiatives that contribute towards County-wide greenhouse gas emissions reduction and enhancing resilience to the impacts of climate change. This strategic approach will be of benefit to all citizens, wildlife and biodiversity in Dublin.

With regard to the wider holistic development of the County, it is noted that the CCAP will be reflected in a range of other plans and strategies made and adopted by the Council into the future, including the County Development Plan, Corporate Plan, Local Economic and Community Plan (LECP) etc. These plans provide an opportunity for further integration of climate change action across Dublin and the enhancement of a cross- sectoral approach to building the sustainability of the County for future generations.

It is considered that the submissions pertaining to interaction between the Draft CCAP, the climate change agenda and wider sustainability issues are adequately addressed in the Draft Plan.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.14.8 Partnership and Collaboration with Local Authorities

Submissions were received relating to wider engagement between local authorities internal and external to the Dublin region.

Regarding ongoing engagement between local authorities internal and external to the Dublin region, it is noted that the development and implementation of the CCAP, will be supported by both Codema and the Dublin Climate Action Regional Office, which involve interaction between the four Dublin local authorities. Codema will provide ongoing support to the CCAP in the areas of research, planning, technical assessment, cost benefit analysis, procurement, project management, funding applications and communications. The Dublin CARO will work with all four Dublin local authorities in implementing CCAP actions, including developing research opportunities and pilot project across the four Dublin local authorities. The CARO will also have a role in reviewing action implementation across the four Dublin local authority CCAPs. There are a number of other regional structures such as the Eastern & Midland Regional Assembly (EMRA), Eastern - Midlands Waste Regional Office and the Local Authority Waters Programme whereby ongoing engagement with other local authorities on climate change issues can be facilitated.

Chief Executive's Recommendation

It is recommended that a new action be added to the CCAP to reflect the role of the Local Authority Waters Programme.

New Action:

The Local Authority will work with the Local Authority Waters Programme in its support of communities and stakeholders in the delivery of local water quality projects and initiatives.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.14.9 Partnership and Collaboration with the Business Community

Submissions relate to the meaningful role of the business community in addressing climate change namely plans for business engagement, Council leadership in the business sustainability agenda, the role of climate change and increasing interest from the business sector including Foreign Direct Investment.

Chief Executive's Recommendation

It is recommended that the following text be added to the Draft CCAP as follows:

The Council recognises the role of the business community in addressing climate change. In implementing and updating the CCAP into the future, the Council will engage with the business community and relevant bodies such as the Chamber of Commerce, Local Enterprise Office etc. This can include strengthening existing networks and creating new climate change links, to encourage all business community stakeholders to engage with climate change action and enhance existing projects and initiatives. Interest areas could include energy efficiency measures, renewable energy opportunities, climate adaptation and resilience measures, access to funding sources etc. There is also scope to further explore partnerships across sectors to facilitate climate action project delivery.

It is recommended that the following action be added to the Draft CCAP as follows:

New Action:

The Local Authority will strengthen existing networks and creating new climate change links, to encourage all business community stakeholders to engage with climate change action and enhance existing projects and initiatives. Interest areas could include energy efficiency measures, renewable energy opportunities, climate adaptation and resilience measures, access to funding sources etc.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.14.10 Local authorities as leaders in action on Climate Change

Submissions relate to leadership of the public sector and local authorities. It is the function of the Draft CCAP to outline actions that will directly improve the Council's own energy efficiency and reduce greenhouse gas emissions in its own buildings and operations, and Council led actions that aim to make Dublin a more climate resilient County. The Draft Plan includes a range of ongoing and planned actions, across Council departments, including actions relating to renewable energy projects. Having regard to supporting other renewable energy projects including hydropower, solar etc., these are primarily supported by the Council, by way of the policies and objectives included in the County Development Plan and other plans and strategies.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the Draft CCAP.

5.14.11 Review of Energy Targets

A number of submissions request a review of energy targets to be included in the Draft CCAP. The Draft CCAP has been prepared to address the following specific climate change targets:

- A 33% improvement in the Council's energy efficiency by 2020; and
- A 40% reduction in the Council's greenhouse gas emissions by 2030.

In Ireland, the public sector has mandatory energy efficiency targets. It is set in the context of Ireland's EU and national commitments and wider climate change goals, whereby a target of 33% energy efficiency improvement is to be achieved by all Irish public bodies (as defined in Statutory Instrument 426 of 2014) by 2020. Public bodies are required to report annual energy efficiency data to the Sustainable Energy Authority of Ireland (SEAI) which manages the reporting process on behalf of the Department of Communications, Climate Action and Environment (DCCAE). There is currently no statutory requirement to undertake sectoral mitigation plans, including revised sectoral, local authority emissions reductions targets.

Being a signatory to the EU Covenant of Mayors for Climate & Energy, the Council has voluntarily committed to a 40% reduction in the Council's greenhouse gas emissions by 2030. Across Europe, signatory cities pledge action to support implementation of the EU 40% greenhouse gas-reduction target by 2030 and the adoption of a joint approach to tackling mitigation and adaptation to climate change.

The Government has published the Draft National Energy & Climate Plan 2021-2030. This first draft of the NECP takes into account energy and climate policies developed to date, the levels of demographic and economic growth identified in the Project 2040 process and includes all of the climate and energy measures set out in the National Development Plan 2018-2027. It is the first step in the process of putting together the final National Energy and Climate Plan and further iterations of the plan will take into account additional policies and measures and the all-of-Government climate action plan to be completed in 2019. A final version of the NECP will be submitted to the European Commission by 31st December 2019.

In March 2019, the Oireachtas published its 'Climate Change: a cross-party consensus on climate action' report. The report recommends that new legislation be enacted by the Oireachtas, providing a new legal framework for tackling climate change. The report states that this should include the setting of legally binding GHG emissions targets for mitigation and renewable electricity for 2030 and

2050, reflecting the latest IPCC consensus and the need for Ireland to make immediate progress in meeting existing EU emissions reductions 2030 targets.

The Climate Action and Low Carbon Development Act 2015 and National Adaptation Framework require sectoral adaptation/climate change action plans to be submitted to Government for approval by 30th September 2019. The Climate Action and Low Carbon Development Act 2015, National Mitigation Plan and National Adaptation Framework, do not require additional public sector climate change targets to be implemented.

In summary, local authorities in Ireland have no statutory role in setting energy and climate change targets. It is considered that the identification of additional local authority energy and climate change targets is not appropriate at this stage, is pre-mature in advance of any revised national legislation in this regard, and; therefore, should not be included in the Draft CCAP. This matter should be primarily addressed at a national level, in advance of addressing such issues at a local authority level.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.12 Addressing climate change in other sectors

With regard to submission addressing climate change in other sectors, it is the function of the Draft CCAP to outline actions that will directly improve the Council's own energy efficiency and reduce greenhouse gas emissions in its own buildings and operations, and Council led actions that aim to make South Dublin a more climate resilient County. In this regard, the Draft CCAP includes Action Areas across five thematic areas: Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management. The Draft Plan includes a range of ongoing and planned actions, across Council departments, that will be continuously monitored, evaluated and updated to 2030 and beyond, with the support of Codema, the Dublin Climate Action Regional Office and other relevant stakeholders. Where relevant and appropriate, the actions in the Plan also have the scope to be replicated across other sectors, including the private sector. This is dealt with adequately in the plan.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.13 Wider climate change reports

Submissions relating to wider climate change reports are noted. At each revision of the CCAP, the updated Plan will take account of demographic, technical and other changes that have occurred and any new targets that have been introduced; this will include having regard to wider climate change reports and publications, as relevant and appropriate.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.14 Health Effects of Climate Change Actions

A submission was received recommending that the Council begin supporting research in the area of mental health and climate change. The Council does not have a role in this area. The Department of Health through various government programmes (e.g. Healthy Ireland) is responsible for the provision of healthcare services and health related research.

Many of the actions identified in the CCAP give rise to long term positive effects on population and human health both by responding and adapting to the impacts of climate change, and also reducing greenhouse gas emissions through a series of measures (e.g. undertakings in the areas of biodiversity, flood resilience, transportation planning and support of the sustainability agenda) are envisioned to have a positive effect on health.

Additionally, under the National Adaptation Framework, a sectoral adaptation plan on health will be prepared by the Department of Health by 30th September 2019. The implementation and future iterations of the Climate Change Action Plan will be consistent with all approved sectoral adaptation plans and the local authority will work in partnership with the Department of Health to achieve and deliver the sectoral plan.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.15 Energy Performance of Public/Private Buildings

A number of submissions request the Council to have further remit in addressing the energy performance and design criteria of non-public sector buildings, including private residential, commercial and industrial buildings. It is noted that the energy efficiency and renewable energy requirements for the construction of new homes and non-residential buildings are primarily addressed in the current Building Regulations Part L and the nearly Zero Energy Buildings (nZEB) standard. The European Energy Performance of Buildings Directive Recast 2010 (EPBD) requires all new buildings to be nearly Zero Energy Buildings (nZEB) by 31st December 2020, and all buildings acquired by public bodies by 31st December 2018. Regarding non-residential buildings, all buildings are required to use up to 60% less energy than allowed under current regulations, plus a requirement for up to 20% of this final demand to be met with renewables, including solar. With regard to residential buildings, any dwelling receiving planning permission after 1st April 2019, should meet the nZEB standard. Substantial completion must have been achieved by 1st April 2020. After 2020 all homes irrespective of when they received planning permission should achieve the new standard. Accordingly, it is not within the remit of the Draft CCAP to introduce additional building standards that would serve to duplicate or exceed the requirements of the European Energy Performance of Buildings Directive.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.16 Interaction with Sectoral Climate Change Issues

A number of submissions relate to the need for the Draft CCAP to interact with a number of wider and sectoral climate change issues i.e. cultural heritage, energy infrastructure, transport etc. Under the National Adaptation Framework, sectoral adaptation plans are required to be prepared and submitted to the Government for approval, by 30th September 2019. Adaptation plans will be prepared for the following sectors:

Seafood - Department of Agriculture, Food and the Marine

- · Agriculture Department of Agriculture, Food and the Marine
- · Forestry Department of Agriculture, Food and the Marine
- · Biodiversity Department of Culture, Heritage and the Gaeltacht
- Built and Archaeological Heritage Department of Culture, Heritage and the Gaeltacht
- Transport infrastructure Department of Transport, Tourism and Sport
- Electricity and Gas Networks Department of Communications, Climate Action and Environment
- Communications networks Department of Communications, Climate Action and Environment
- Flood Risk Management Office of Public Works
- · Water Quality Department of Housing, Planning and Local Government
- · Water Services Infrastructure Department of Housing, Planning and Local Government
- Health Department of Health

As the Draft CCAP will be adopted be the elected members in advance of the finalisation of approval of all twelve sectoral adaptation strategies, it is considered that narrative be included in the Draft CCAPs regarding the role of sectoral adaptation plans and the role that local authorities play in collaborating and working in partnership with sectors to achieve and delver the sectoral plans, given their common and shared agenda. It is also considered that an additional action be included in the Draft Plan in this regard.

Chief Executive's Recommendation

It is recommended that the following amendment be made to the Draft CCAP as follows:

Under The National Context - Ireland section the following text shall be added:

Under the National Adaptation Framework, sectoral adaptation plans are required to be prepared and submitted to the Government for approval, by 30th September 2019. Adaptation plans will be prepared for the following sectors:

- · Seafood Department of Agriculture, Food and the Marine
- · Agriculture Department of Agriculture, Food and the Marine
- Forestry Department of Agriculture, Food and the Marine
- · Biodiversity Department of Culture, Heritage and the Gaeltacht
- Built and Archaeological Heritage Department of Culture, Heritage and the Gaeltacht
- Transport infrastructure Department of Transport, Tourism and Sport
- Electricity and Gas Networks Department of Communications, Climate Action and Environment
- Communications networks Department of Communications, Climate Action and Environment
- Flood Risk Management Office of Public Works
- · Water Quality Department of Housing, Planning and Local Government
- Water Services Infrastructure Department of Housing, Planning and Local Government
- Health Department of Health

The implementation and future iterations of the Climate Change Action Plan will be consistent with approved sectoral adaptation plans and the local authority will work in partnership with sectors to achieve and deliver the sectoral plans.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.17 Public Consultation Process and Duration

A number of submissions relate to the public consultation process and duration; these submissions are noted. It is recommended that no amendments are made to the Draft CCAP.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.18 Carbon Tax

A number of submissions raise the issue of Carbon tax. Ireland applies a carbon tax of €20 per tonne of carbon emitted through the direct use of fossil fuels - oil, petrol, diesel and gas in heating homes and businesses or running cars and trucks. The Irish Government decided not to increase the level of the carbon tax in the 2019 Budget. Ireland is also part of the EU Emission Trading System (ETS), a cap and trade system that sets an overall cap on emissions from power stations and industrial plants throughout the EU. Each power station or industrial plant in the EU receives a number of free emissions credits. They must either stay within their allocation or else purchase credits from other facilities, effectively buying compliance. This incentivises operators to reduce emissions.

It is noted that the Oireachtas 'Climate Change: a cross-party consensus on climate action' report states that the current carbon tax level in Ireland does not send a powerful enough signal to actors to lower emissions throughout the economy, the Oireachtas Committee report also states that a rising price trajectory to 2030 should form a component of climate action policy moving forward.

This issue is considered outside the scope of the Draft CCAP and therefore cannot by addressed by this process.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.19 Directly Elected Mayor

A number of submissions relating to the impact of actions on climate change as a result of having a directly elector mayor were received.

The Local Government Reform Act 2014 includes for the provision for a 'Directly Elected Mayor for Dublin Metropolitan Area'. The issue of a directly elected Mayor for Dublin has been referred to the Citizen's Assembly for consideration in 2019. Issues relating to the election of Directly Elected Mayor include devolution of powers, interaction with national agencies, wider governance structure etc. This issue is considered outside the scope of the Draft CCAP and therefore cannot by addressed by this process.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.20 Climate Refugees

Submissions raised in relation to Climate Refugees are a matter for the Department of Foreign Affairs and are not within the remit of the Council.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.21 Friends of the Irish Environment v the Irish Government

Submissions raised in relation to the court case Friends of the Irish Environment v the Irish Government are not within the remit of the Council.

Chief Executive's Recommendation

It is recommended that no amendments are made to the Draft CCAP.

SEA Comment

No interaction with Strategic Environmental Objectives and no significant environmental effects are identified for this CE recommendation.

AA Comment

The draft plan as published has been subject to a Natura Impact Statement; providing all the measures outlined in the NIS are implemented, there will be no significant adverse effects to European Sites within the zone of influence of the CCAP.

5.14.22 Minor Text Changes

The Chief Executive recommends a number of minor text changes to the Draft CCAP. These include correction of typographical errors, clarifications, changes to Departments responsible for actions and references. These minor text changes include:

Chief Executive's Recommendation:

It is recommended that some minor text updates be included.

Flood Resilience Section

Flooding is a key climate change risk facing the Dublin Region. Climate change is expected to increase the frequency and/or intensity of heavy rainfall events and storm surges, which would increase the risk of pluvial, fluvial and coastal flooding in vulnerable areas of the County. Extreme rainfall and weather events can also place additional pressure on the urban drainage network and water supply, which can result in network flooding and water shortages. Together with the Office of Public Works (OPW) and neighbouring local authorities, DCC is actively working to implement projects and programmes that align with the EU Floods Directive and Water Framework Directive. The Floods Directive calls for member states to undertake strategic flood risk assessments and to identify flood risk management measures. Flood maps have been prepared for future climate scenarios, and the proposed community-scale measures are set out in the Flood Risk Management Plans (www.floodinfo.ie). Additional local measures can include nature-based solutions such as integrated

wetlands, green infrastructure, and Sustainable urban Drainage Systems (SuDS,) to be used for adaptation and mitigation responses to achieve flood resilience.

References Section

- OPW's website <u>www.floodinfo.ie</u>, which is a useful public information source for assessing current and future scenarios flood risk.
- OPW flood maps for both current and future climate change scenarios.

Flood Resilience Table

Include full title to the planning guidelines, i.e." The Planning Systems and Flood Risk Management Guidelines for Planning Authorities, November 2009" (Please note that the Guidelines were published by DECLG (now DHPLG) along with the OPW).

5.15 Summary of Chief Executive's Proposed Amendments

South Dublin County Council undertook a public consultation on the Draft Climate Change Action Plan 2019-2024 (CCAP) during the period Monday 11th February to Monday 25th March 2019 inclusive. A total of 73 valid submissions were received in response to the Consultation which translated into over 246 discrete comments or item submissions on the Plan. A Chief Executive's Report has subsequently been prepared which summarises and details the outcome of this public consultation programme.

The level and detail of submissions received reflect widespread public concern on the urgent need to respond to climate change. South Dublin County Council is determined to do all within its power to improve energy efficiency and reduce greenhouse gas emissions. This involves working on its own buildings and operations, whilst also influencing the wider community, other public bodies and businesses. It further requires making the South Dublin County Council area more adaptive to the impacts of climate change.

There were 114 actions in the Draft Climate Change Action Plan; a further 17 have been added as a result of submissions whilst another 8 have been amended. The attached table summarises the new and amended actions.

In accordance with the National Adaptation Framework (NAF) South Dublin County Council is required to make a local adaptation strategy by the 30th September 2019

The Chief Executive Report, together with the Draft CCAP, will be circulated to the Environment, Public Realm and Climate Change SPC members and will be included on the Agenda of the Council meeting of the 7th May. If the Draft is approved, a final Climate Change Action Plan 2019-2024 will be published and submitted to the Minister for Communications, Climate Action and Environment.

Section	Action Number	Amended Text/New Action	Text Description
Energy and	20	New	The Council Energy Review (mid 2019) and going
Buildings			forward, will include a glide path illustrating the
			energy efficiency and GHG emission targets for the
			Council up to and including 2030.
	21	New	Appendix II: Total Emissions in South Dublin of the
			CCAP, will also be updated every two years in
			accordance with EU Covenant of Mayors for
			Climate & Energy protocol.
	SEA commer	nt:	
			mmend will provide information on the energy
			ough diagrams (glide path) as well as biannual
			s. These in and of themselves do not give rise to
			ction with Strategic Environmental Objectives and no
			effects are identified for this CE recommendation.
		Assessment	
			mmend will provide information on the energy
			ough diagrams (glide path) as well as biannual
			s. These in and of themselves do not give rise to
			ot have the potential alone, or in combination with
			result in likely significant effects to European Sites.
	22	New	The Architects Department of South Dublin Count
		l wew	Council is committed to participating with the RIA
			in particular the Sustainability Task Force in
			seeking new and innovative approaches to Climate
			action in the built environment
	23	New	Identify site for trialling renewable energy project.
	23	IVEW	including solar PV and Geothermal.
	24	New	The Council will investigate the Lifecycle
	24	New	
			Assessment of Traditional and New Construction
	0.5		Methods for Residential Projects in Dublin.
	25	New	In all building projects, new build or retrofit, Swift
			Bricks or other nesting sites for swifts will be
			provided where practicable. The presence of swif
			breeding sites will be identified to ensure that
			known breeding sites are not lost as a result of
	0.6		construction work.
	26	New	Develop maintenance and condition survey
			programmes for Council owned historic and
			ancient monuments that are informed by climate
			change impacts.
	27	New	Conduct research and seek to develop Council
			based case studies on appropriate and sensitive
			retro-fitting/energy upgrading of traditional
			buildings to inform works both to Council owned
			properties and to guide private owners.
			Assessment of Chief Executive's Recommendation
			rm building renovation and new and innovative
	climate actio	n in the built	environment are consistent with a number of SEOs in

particular, material assets, climate change and air quality, population and human health as well as indirect positive effects in relation to cultural heritage and landscape. The identification of new sites for trialling renewable energy projects such as geothermal should utilise the GIS data in particular. Existing measures in the South Dublin CDP, the CCAP, SEA ER and NIS will also apply. Subject to full implementation as appropriate, no adverse environmental effects are identified. The action relating to Swift Boxes is included on foot of a submission by Birdwatch Ireland. Positive effects in particular in relation to Biodiversity SEOS and no significant environmental effects are identified for this CE recommendation. Appropriate Assessment Screening of Chief Executive's Recommendation Actions relating to long term building renovation and new and innovative climate action in the built environment within South Dublin will not result in land use effects with the potential to negatively affect European Sites. The renovation of existing buildings will not have the potential alone, or in combination with other plans or projects, to result in likely significant effects to European Sites. The identification of site for trialling renewable energy projects such as solar PV and geothermal will not in itself have the potential to result in likely significant effects to European Sites. It is noted that any renewable energy project progressed within any such site identified on foot of this amendment will be subject to screening for Appropriate Assessment and where required a Natura Impact Statement. In addition existing measures that aim to protect European Sites as outlined in the NIS for the CCAP and the NIR for the CDP will be required to inform the site identification process. The action relating to swift boxes is included on foot of a submission by Birdwatch Ireland. It will have positive implications for biodiversity and will not have the potential alone, or in combination with other plans or projects, to result in likely significant effects to European Sites. Expand availability of EV charging points and other 17 Amend **Transport** facilities for non fossil fuelled powered vehicles in the County **SEA Comment:** This action relates to minor landuse effect. No significant environmental effects are identified for this CE recommendation and expansion of non fossil fuel vehicles availability is consistent with SEOs around material assets, climate change and human health. Appropriate Assessment comment: The inclusion of this action will not in itself result in significant land use effects and will not have the potential alone, or in combination with other plans or projects, to result in likely significant effects to European Sites. Amend Strengthen traditional villages by improving the public realm through enhancement of green infrastructure measures and sustainable transport linkages SEA and AA Comment: This action was assessed during draft plan and was recommended for

mitigation to enhance environmental performance.

18	New	SDCC participates in the national Cycle Right programme bringing cycle training to pupils in primary and secondary schools throughout the city area. SDCC works closely with An Taisce Green Schools on the Green Travel theme and encourages increased cycling through support for cycle training, on site cycle parking and improvements to the physical environment identified by pupils. Cycle Training Programme for 6th Class students / Pedal Power Labs	
19	New	SDCC will continue to seek new and expand on existing partnerships to encourage sustainable travel and safer travel behaviours.	
20	New	SDCC will establish a portal dedicated to communication and promotion of active travel within existing platforms	
SEA Comment Positive interactions with SEOS identified for all the above actions, in particular with material assets, climate change, population and human health SEOs. AA Comment The inclusion of these actions will not in itself result in land use effects and will not have the potential alone, or in combination with other plans or projects, to result in likely significant effects to European Sites.			
21	New	SDCC will engage with local communities to develop a vision for the future of their neighbourhoods with a strong focus on local living, sustainable mobility and quality of life	
SEA Comment The above action supports engagement communication and collaboration and this is consistent with a number of SEOS including population and human health, climate change and material assets. AA Comment			
The inclusion of this action will not in itself result in land use effects and will not have the potential alone, or in combination with other plans or projects, to result in likely significant effects to European Sites.			
22	New	The Council will undertake an assessment of the number of existing and potential future Electric Vehicle Charge points in its jurisdiction.	
No interaction significant environment Appropriate A The inclusion have the pote	lates to an as n with Strategoriconmental of assessment co of this action ential alone, co	ssessment only and no landuse effects are identified. gic Environmental Objectives currently and no effects are identified for this CE recommendation.	

Flood	13	Amend	Develop template to capture impacts, response		
Resilience			and costs (including ecosystem		
			services/natural capital costs) for all major		
			climate events		
	15	Amend	Update DLA urban drainage and flooding		
			policies for current knowledge of flood risk and		
			the latest best practice in drainage design		
			promoting natural flood measures as a priority		
	20	Amend	Minor flood schemes and general maintenance		
	20	, une no	that are designed and implemented to		
			promote nature based solutions where		
	24		practical		
	21	Amend	Communication and awareness campaigns on		
			flood risk management and natural flood		
	Consultations (State)		management measures		
	SEA and AA c				
			assessed during draft plan preparation and were		
	recommende	d for mitiga	tion to enhance environmental performance.		
Nature	22	Amend	Include native species into local authority plans		
Based			where appropriate as a key nature based		
Solutions			measure where appropriate		
	SEA and AA comment:				
	The above actions were assessed during draft plan preparation and were				
	The state of the s		on to enhance environmental performance.		
Resource	9	Amend	Promote programmes to advise businesses on		
Management			reducing waste e.g. Eco-Merit		
	24	New	Promote recycling and the circular economy to		
			householders through a range of workshops, talks		
			and programmes		
	25	New	Explore collaboration with stakeholders such as		
			Refill.ie to reduce single use items.		
NET HOME SHOWN THE SHOWN THE RESERVENCE	SEA Comment				
	Promotion of circular economy and reduction of waste is consistent with SEOS				
	particularly around material assets and climate change.				
	AA Comment				
	These amendments will not have the potential alone, or in combination with				
	other plans or projects, to result in likely significant effects to European Sites.				
	Constal	New	The County Council Energy Review (mid 2019) and		
Milestone 5	General	New	going forward, will include a glide path illustrating		
Monitoring	Comment		the energy efficiency and GHG emission targets for		
and			SDCC up to and including 2030. Appendix II: Total		
Iteration			Emissions in South Dublin County Council will also		
			be updated every two years in accordance with EU		
			Covenant of Mayors for Climate & Energy protocol.		
	SEA comment				
	This additional text provides greater context and links with potential funding				
	streams and collaboration. No significant environmental effects are identified				
	for this CE rec				

Appropriate Assessment Comment:
The inclusion of this text will not have the potential alone, or in combination
with other plans or projects, to result in land use effects that will result in likely
significant effects to European Sites.

Citizen and	General	New	The Council recognises the importance of public and
Citizen and	Comment	IVCVV	stakeholder engagement in addressing climate
Community			change. In recent months, there has been a range of
Engagement			citizen and community engagement initiatives
(Public			carried out from national to local level. The
Awareness)			Department of Communications, Climate Action
			and Environment has established the National
			Dialogue on Climate Action, to drive citizen
			engagement in climate action across Ireland. Co-
			ordinated by the EPA, the objectives of the National
			Dialogue on Climate Action are to:
			 Create awareness, engagement and
			motivation to act (locally, regionally and
			nationally) in relation to the challenges
			presented by climate change;
			Create structures and information flows to
			facilitate people gathering to discuss,
			deliberate and maximise consensus on
			appropriate responses to these challenges,
			and to enable and empower appropriate
			A
			action;
			Establish, on a long term basis, appropriate
			networks for people to meet periodically to
			consider evidence-based inputs on the
			economic, social, behavioural,
			environmental and public aspects of climate
			and energy policy; and
			 Provide regular input, through the NDCA,
			into the prioritisation and implementation
			of climate and energy policy which can be
			reported and monitored at
	Te here		local/regional/national levels.
			To date two regional NDCA workshops have been
			carried out, in Athlone (June 2018) and Tralee
			(November (2018). Separate to the NDCA, a range
			of local and community initiatives have also been
			undertaken across the country, including Climate
			ambassadors, Green Schools, Eco Merit, ECO-
			UNESCO etc.It is recognised that there is a need to
			foster and build momentum on wider citizen
			engagement in climate change, across all age
			groups. Local authorities have significant experience in engaging citizens through their existing functions,
			including land-use planning, housing, employment,
			transport and environmental efficiency and
			awareness. Local authorities are also engaged in
			existing public participation structures and
			approaches that are bottom-up, local community
			centred and are outcome focused. These include
			the Public Participation Networks, Local Community

Development Committees (LCDP), Tidy Towns, Sustainable Energy Communities etc. Younger citizens have also engaged with the climate change agenda by participating in the #FridaysForFuture campaign, including rallies outside Government buildings. The Council aims to develop further links with younger citizens in enhancing climate change awareness and developing educational initiatives in partnership with schools, and youth organisations such as Comhairle na nÓg and Foróige. It is considered that by implementing and updating the CCAP into the future, strengthening existing networks and creating new climate change links, this will progressively inform and encourage all citizens, communities and other stakeholders to have increased access to information and advice. Interest areas could include identification and implementation of relevant energy efficiency measures, renewable energy actions, climate adaptation and resilience measures, access to funding sources such as SEAI grant schemes, the Climate Action Fund etc. Local authority efforts in citizen and community engagement should be supported by the Climate Action Regional Office, the Environmental Protection Agency and other relevant stakeholders. It is part of the CARO remit to engage and support the National Dialogue on Climate Action on a local and regional basis, and also to develop education and awareness initiatives for the public, professionals, schools, NGOs and other agencies engaged in driving the climate change agenda. Insert #Councils4Climate Action case study text based on outcomes of public consultation events.

					
	SEA Comment:				
	This text provides greater context and support for public awareness and				
	engagement. Positive interactions with Population and Human Health and				
	Climate Change	SEOS and n	o significant adverse effects are identified for this CE		
	recommendation	on.			
	Appropriate As	sessment Co	mment		
	This text provid	les for greate	er support and engagement under the public		
	awareness sect	ion. The incl	usion of this text will not result in land use effects		
	and will not have	ve the poten	tial alone, or in combination with other plans or		
	projects, to resu	ılt in likely si	gnificant effects to European Sites		
Citizen and	General	New	In implementing and updating the CCAP into the		
	Comment		future, strengthening existing networks and		
Community			creating new climate change links, should be		
Engagement			maximised to encourage all citizens, communities		
(Public			and other stakeholders to have increased access to		
Awareness)			information and advice. Interest areas could include		
			identification and implementation of relevant		
			energy efficiency measures, renewable energy		
			actions, climate adaptation and resilience		
			measures, access to funding sources such as SEAI		
			grant schemes, the Climate Action Fund etc.		
			Local authority efforts in citizen and community		
			engagement should be supported by the Climate		
			Action Regional Office, the Environmental		
			Protection Agency and other relevant stakeholders.		
			It is part of the CARO remit to engage and support		
			the National Dialogue on Climate Action on a local		
			and regional basis, and also to develop education		
			and awareness initiatives for the public,		
			professionals, schools, NGOs and other agencies		
			engaged in driving the climate change agenda.		
	SEA Comment:				
			ontext and support for public awareness and		
	engagement. Positive interactions with Population and Human Health and				
	Climate Change SEOS and no significant adverse effects are identified for this CE				
	recommendation.				
	Appropriate Assessment Comment				
	This text provides for greater support and engagement under the public				
	awareness section. The inclusion of this text will not result in land use effects				
	and will not have the potential alone, or in combination with other plans or				
	projects, to result in likely significant effects to European Sites				
Climate	General	New	The implementation, monitoring and future		
Change	Comment		updates of the Climate Change Action Plan will be		
Science			consistent with, and have regard to the Oireachtas		
			'Climate Change: a cross-party consensus on climate		
behind CCAP			action' report (March 2019) and the Whole of		
(The National			Government Climate Action Plan.		
Context -					
Ireland)					

Partnership and Collaboration with other Local Authorities	Action	New	The Local Authority will work with the Local Authority Waters Programme in its support of communities and stakeholders in the delivery of local water quality projects and initiatives.	
	interactions wi no significant a Appropriate As This text provid result in land u with other plan Sites	This text provides greater context and support for collaboration. Positive interactions with Population and Human Health and Climate Change SEOS and no significant adverse effects are identified for this CE recommendation. Appropriate Assessment Comment This text provides for greater collaboration. The inclusion of this text will not result in land use effects and will not have the potential alone, or in combination with other plans or projects, to result in likely significant effects to European		
Partnership and Collaboration with the Business Community	General Comment	New	The Council recognises the role of the business community in addressing climate change. In implementing and updating the CCAP into the future, the Council will engage with the business community and relevant bodies such as the Chamber of Commerce, Local Enterprise Office etc. This can include strengthening existing networks and creating new climate change links, to encourage all business community stakeholders to engage with climate change action and enhance existing projects and initiatives. Interest areas could include energy efficiency measures, renewable energy opportunities, climate adaptation and resilience measures, access to funding sources etc. There is also scope to further explore partnerships across sectors to facilitate climate action project delivery.	
	Action	New	The Local Authority will strengthen existing networks and creating new climate change links, to encourage all business community stakeholders to engage with climate change action and enhance existing projects and initiatives. Interest areas could include energy efficiency measures, renewable energy opportunities, climate adaptation and resilience measures, access to funding sources etc.	

SEA Comment

This text provides greater context and support for public awareness and engagement and role of business community in addressing climate change. Positive interactions with Population and Human Health and Climate Change SEOS and no significant adverse effects are identified for this CE recommendation.

Appropriate Assessment Comment

This text sets out the potential leadership role the business community can play in addressing climate change and positions the CCAP to support the business community in delivering actions to address climate change. No specific land use measures are outlined in this text and its inclusion in the plan will not in itself have the potential alone, or in combination with other plans or projects, to result in likely significant effects to European Sites

	General	Under the National Adeptation Framework as start
The National context - Ireland	Comment	Under the National Adaptation Framework, sectoral adaptation plans are required to be prepared and submitted to the Government for approval, by 30 th September 2019. Adaptation plans will be prepared for the following sectors:
		 Seafood - Department of Agriculture, Food and the Marine
		 Agriculture - Department of Agriculture, Food and the Marine
		 Forestry - Department of Agriculture, Food and the Marine
		Biodiversity - Department of Culture,
		Heritage and the Gaeltacht
		Built and Archaeological Heritage - Department of Culture, Heritage and the
		Department of Culture, Heritage and the Gaeltacht
		Transport infrastructure - Department of
		Transport, Tourism and Sport
		Electricity and Gas Networks - Department
		of Communications, Climate Action and Environment
		Communications networks - Department of
		Communications, Climate Action and Environment
		Flood Risk Management - Office of Public Works
		Water Quality - Department of Housing, Planning and Local Government
		Water Services Infrastructure - Department
		of Housing, Planning and Local Government
		Health - Department of Health
		The implementation and future iterations of the
		Climate Change Action Plan will be consistent with
		approved sectoral adaptation plans and the Council
		will work in partnership with sectors to achieve and deliver the sectoral plans.
	SEA Comment	deliver the sectoral plans.
	Professional Control of the Control of Contr	rovides for greater consistency with sectoral climate
	change adaptation plans. 7	Therefore, positive interactions in relation to Climate
		cant adverse environmental effects are identified for
	this CE recommendation.	ommont:
	Appropriate Assessment Co	s for greater consistency with sectoral climate change
		g for Appropriate Assessment of the sectoral plans
	I was a second to the second t	ng this assessment the potential for these sectoral
	plans to combine with the	CCAP will be examined.

Building and	General	New	Additional text to be inserted in Energy & Building
Energy	Comment		Section, as follows:
			Local Authorities have a role in protecting and
			maintaining the archaeological and architectural
			resource for future generations. Climate change
			actions should be carried out in consultation with LA
			Architectural Conservation Officers, Heritage
			Officers and other relevant stakeholders. Proposals to improve the thermal performance of or insert
			renewable energy technologies into historic
			buildings need to be sensitive to traditional methods
			of construction to ensure that the proposed works
			are appropriate and do not actually cause damage to
			the structure, require the removal of historic fabric
			such as original windows, doors and floors, or have a
			detrimental visual impact.
			National guidance is available to owners to direct
			appropriate interventions through the Department
			of Environment, Heritage and Local Government
			publication "Advice Series: Energy Efficiency in
			Traditional Buildings" (2010). South Dublin County
			Council will be mindful of this when carrying out
			works on any of its own historic building stock and
			seek to promote and develop best practice in this
	SEA Comment		area.
		relating to d	cultural heritage. Therefore, positive interactions in
			and cultural heritage SEOS and no significant
			ects are identified for this CE recommendation.
	Appropriate As		
			res are outlined in this text and its inclusion in the
	plan will not in	itself, or in o	combination with other plans and programmes, have
			ely significant effects to European Sites
Flood	General	New	The Council is working with a range of stakeholders
Resilience	Comment		including Irish Water in the management of pluvial
Flood Risk			flooding across the local authority area.
Management			

Elood	Minor Text	Amended	Flooding is a key climate change risk facing the
10 20 20 20 20 20 20 20 20 20 20 20 20 20	The state of the s		Dublin Region. Climate change is expected to
Resilience	Changes	Amended	Flooding is a key climate change risk facing the Dublin Region. Climate change is expected to increase the frequency and/or intensity of heavy rainfall events and storm surges, which would increase the risk of pluvial, fluvial and coastal flooding in vulnerable areas of the County. Extreme rainfall and weather events can also place additional pressure on the urban drainage network and water supply, which can result in network flooding and water shortages. Together with the Office of Public Works (OPW) and neighbouring local authorities, SDCC is actively working to implement projects and programmes that align with the EU Floods Directive and Water Framework Directive. The Floods Directive calls for member states to undertake strategic flood risk assessments and to identify flood risk management measures. Flood maps have been prepared for future climate scenarios, and the proposed community-scale measures are set out in the Flood Risk Management Plans (www.floodinfo.ie). Additional local measures can include nature-based solutions such as integrated wetlands, green infrastructure, and Sustainable urban Drainage Systems (SuDS,) to be used for adaptation and mitigation responses to achieve flood resilience. References Section OPW's website www.floodinfo.ie, which is a useful public information source for assessing current and future scenarios flood risk. OPW flood maps for both current and future climate change scenarios. Flood Resilience Table Include full title to the planning guidelines, i.e." The Planning Systems and Flood Risk Management Guidelines for Planning Authorities, November 2009" (Please note that the Guidelines were
			published by DECLG (now DHPLG) along with the
	CEA and AA	mm ant:	OPW).
	SEA and AA con		ignificant offects to SEOs or Furances Sites
	ivilinor updates	to text, no s	ignificant effects to SEOs or European Sites.

Milestone 4: Implementation Minor Text Change Internationally, SDCC will liaise closely with the Covenant of Mayors for Climate and Energy and other established networks of European cities and associations. SDCC in association with the DLA, Codema and CARO will seek technical and financial supports for climate research and practical low carbon solutions. International funding streams that fund climate change related activities are available, such as Interreg Europe, Interreg NWE, LIFE and Horizon 2020. Nationally programmes such as SEAI's better energy communities and the RD&D provide grants for research and building solutions. SEAI have also part funded the development and roll out of the Home Energy Saving Kits to engage with citizens as well as provide grant aid to develop the energy performance contracting projects. The EPA's research programme also provides an opportunity to fund studies into climate impacts and solutions for the DLA. SDCC & DCC recently secured significant funding from the Climate Action Fund (CAF) and the DLA will continue to actively pursue projects eligible for this funding. Codema and CARO will continue to research potential funding opportunities and partnerships with third level institutions. Finally, private sector partnerships are also important to realise low carbon
and facilitated where possible.

Milestone 5:	Minor Text	Amend	SDCC along with over 7,000 cities and regions in
Monitoring and	Change		57 countries, is a signatory to the Covenant of
Iteration			Mayors for Climate and Energy, which is the
			world's largest movement for local climate and
			energy actions. The signatory cities pledge
			action to support implementation of the EU 40%
			greenhouse gas reduction target by 2030 and
			the adoption of a joint approach to tackling
			mitigation and adaptation to climate change.
			Accordingly, SDCC commits to submitting a
			Sustainable Energy and Climate Action Plan
			(SECAP), outlining the key actions it plans to
			undertake, and this must be submitted within
			two years of signing up to the initiative. This
			current Climate Change Action plan is forming
			the basis for the SECAP submission, The plan
			which will feature a Baseline Emission Inventory
			to track mitigation actions and a Climate Risks
			and Vulnerability Assessment. SDCC's county
			wide baseline emissions inventory was
			completed in 2018 and will be used as a
			benchmark to monitor emission reductions up
			to 2030. Furthermore, Codema will develop an
			energy master plan for the entire Dublin Region.
			The Dublin Region Energy Master Plan will
			create evidence-based, realistic, and costed
			pathways for the Dublin Region to achieve its
			carbon emissions reduction targets to 2030 and
			beyond, up to 2050. The plan will focus on the
			energy areas where actions can be taken to
			introduce energy efficiency measures and
			reduce CO ₂ emissions. This commitment with
			the Covenant of Mayors marks the beginning of
			a long-term process, with cities committed to
			reporting every two years on the
			implementation progress of their plans.

	including the through the Environmenta identified for Appropriate A This addition including the through the S result in lan	Dublin Reg SEA and AA al Objective this CE reco Assessment al text pro Dublin Reg SEA and AA d use effe with other	ovides greater detail on existing commitments gion Energy Masterplan which has been assessed process to date. The inclusion of this text will not ects that will have the potential alone, or in plans or projects, to result in likely significant
Adaptation Baseline: Extreme Weather	Minor Text Change	Amend	As shown in the Timeline of Major Climatic Events (Figure 4), the frequency of prolonged extreme cold spells in Ireland has increased, and in the Dublin Region there are additional risks due to these extreme temperatures. During Storm Emma, prolonged periods of cold resulted in water pipes freezing and then bursting as the temperatures started to rise, which left homes in the County without water.
	SEA and AA c Minor amend Sites		xt, so significant effects on SEOs or European

RECOMMENDED MITIGATION MEASURES FOR THE SOUTH DUBLIN CCAP — REVISED These Mitigation Measures were identified in Section 7 of the Natura Impact Statement and Section 8 of the SEA ER and will also be included in the final SEA Environmental Report and AA Natura Impact Statement.

	Mitigation Measure
	Transport Actions
5	Strengthen traditional villages by improving the public realm through enhancement of green infrastructure measures and sustainable transport linkages
	Flood Resilience
13	Develop template to capture impacts, response and costs (including ecosystem services/natural capital costs) for all major climate events
15	Update DLA urban drainage and flooding policies for current knowledge of flood risk and the latest best practice in drainage design promoting natural flood measures as a priority

20	Minor flood schemes and general maintenance that are designed and implemented to promote nature based solutions where practical
21	Communication and awareness campaigns on flood risk management and natural flood management measures
	Nature Based Solutions
22	Include native species into local authority plans where appropriate as a key nature based measure where appropriate

Section 6 Conclusions

Taking into account the South Dublin County Council Draft Climate Change Action Plan 2019-2024, this Chief Executive's Report on Submissions Received, and Strategic Environmental Assessment and Appropriate Assessment Screening of Chief Executive's Recommendations, it is proposed that the South Dublin County Council Draft Climate Change Action Plan 2019-2024 be approved by the Elected Members of South Dublin County Council, in accordance with the recommendations of this report.

Once approved and finalised, the South Dublin County Council Climate Change Action Plan 2019-2024 will be submitted to the Department of Communications, Climate Action and Environment. This is in accordance with the requirements of the National Adaptation Framework (NAF) 2018.

Appendix A: List of Persons, Organisations and Bodies who made Submissions

Ref	Name
SDCC-CCAP-201902-01	Róisin O'Brien
SDCC-CCAP-201902-02	Niall Roche
SDCC-CCAP-201902-03	Ciara Kelly
SDCC-CCAP-201902-04	Una Ruddock
SDCC-CCAP-201902-05	Una Ruddock
SDCC-CCAP-201902-06	Dave Harrington
SDCC-CCAP-201902-07	Matteo Ferrari
SDCC-CCAP-201902-08	Vincent Tsoi
SDCC-CCAP-201902-09	Alison Gough
SDCC-CCAP-201902-10	Jacinta Carey
SDCC-CCAP-201902-11	Gary Tyrrell
SDCC-CCAP-201902-12	Darren Clarke
SDCC-CCAP-201902-13	Christine Barretto
SDCC-CCAP-201902-14	Madeleine Johansson & Emma Hendrick,
	obo People Before Profit
SDCC-CCAP-201902-15	Niamh Fanthom
SDCC-CCAP-201902-16	Clodagh O'Reilly
SDCC-CCAP-201902-17	Donal Clarke
SDCC-CCAP-201902-18	Gavin McDonagh
SDCC-CCAP-201902-19	Mayank Jain
SDCC-CCAP-201902-20	Deirdre Tierney
SDCC-CCAP-201902-21	Keith Scanlon
SDCC-CCAP-201902-22	Eamonn O'Riordain
SDCC-CCAP-201902-23	Mairead Forsythe
SDCC-CCAP-201902-24	Paul McCormack Cooney
SDCC-CCAP-201902-25	Eilish Scott obo
55 66 66 11 25 25 62 25	Ervia
SDCC-CCAP-201902-26	Anna May Harkin
SDCC-CCAP-201902-27	Joe Miller obo RIAI
SDCC-CCAP-201902-28	Eoin O Broin
SDCC-CCAP-201902-29	Marguerite Arbuthnot-O'Brien obo Crann
SDCC-CCAP-201902-30	Orla Farrell obo Crann
SDCC-CCAP-201902-31	Catherine Barry Murphy
SDCC-CCAP-201902-32	Mary Ahern
SDCC-CCAP-201902-33	Declan Hanley
SDCC-CCAP-201902-34	Dudley Steward
SDCC-CCAP-201902-35	Kevin O'Loughlin obo Lucan Tidy Towns
SDCC-CCAP-201902-36	Annie Flynn
3DCC-CCAF-201902-30	Obo Four Districts Woodlands Group
SDCC-CCAP-201902-37	John Bird
SDCC-CCAP-201902-37	Peter Kavanagh
3DCC-CCAF-201302-30	Obo SDCC Green Party
SDCC-CCAP-201902-39	John Shanahan
SDCC-CCAP-201902-40	James Carton
SDCC-CCAP-201902-41	National Biodiversity Data Centre
SDCC-CCAP-201902-42	EPA – Cian O'Mahony
SDCC-CCAP-201902-43	Dept Agri Food & Marine

SDCC-CCAP-201902-44	Irish Climate Science Forum
SDCC-CCAP-201902-45	Geological Survey Ireland
SDCC-CCAP-201902-46	SDC PPN
SDCC-CCAP-201902-47	Glendoher & District RA
SDCC-CCAP-201902-48	Grainne Dunne
SDCC-CCAP-201902-49	Siobhan O'Keeffe
SDCC-CCAP-201902-50	Eugene Barrett obo Knocklyon Network
SDCC-CCAP-201902-51	Sean Farrell
SDCC-CCAP-201902-52	Leave No Trace Ireland
SDCC-CCAP-201902-53	Robert Dowds, Labour Candidate
SDCC-CCAP-201902-54	Maurizi Sturlesi, Sharo Tecnologies
SDCC-CCAP-201902-55	Heidi Kelly-Hogan
SDCC-CCAP-201902-56	Francis Timmons Cllr
SDCC-CCAP-201902-57	South Dublin Conservation Society
SDCC-CCAP-201902-58	Lorraine Mac Rory
SDCC-CCAP-201902-59	Eco Unesco – Elaine Nevin
SDCC-CCAP-201902-60	James McAteer
SDCC-CCAP-201902-61	John Lawlor
SDCC-CCAP-201902-62	Eoghan McCarthy obo Gas Networks
	Ireland
SDCC-CCAP-201902-63	Irenie McLoughlin obo Association of
	Architectural Conservation Officers
SDCC-CCAP-201902-64	Ian Keogh
SDCC-CCAP-201902-65	Karl Ussher
SDCC-CCAP-201902-66	Oonagh Duggan obo Bird Watch Ireland
SDCC-CCAP-201902-67	Mags Trot
SDCC-CCAP-201902-68	Cllr Emer Higgins Ind
SDCC-CCAP-201902-69	Niall Clarke
SDCC-CCAP-201902-70	Padhraic Kennedy
SDCC-CCAP-201902-71	Darren McGovern
SDCC-CCAP-201902-72	Sinead Fallon
SDCC-CCAP-201902-73	Denise Tobin

Appendix B: Newspaper Notice

14 Feburary 2019 WEST ((DUBLIN GAZETTE 25



PUBLIC NOTICE OF SOUTH DUBLIN COUNTY COUNCIL DRAFT CLIMATE CHANGE ACTION PLAN 2019-2024

Notice is hereby given that South Dublin County Council has prepared a draft Climate Change Action Plan 2019-2024.

Climate Change Action Plan 2019-2024. The draft Climate Change Action Plan sets out how the Council will improve energy efficiency and reduce greenhouse gas emissions in its own buildings and operations, while making the County more adaptive to the impacts of climate change. The draft Plan includes a range of actions across five key action areas; Energy & Buildings, Transport, Flood Resilience, Nature Based Solutions and Resource Management.

The public consultation process will run from Monday 11 February to Monday 25 March 2019 inclusive, during which time South Dublin County Council draft Climate Change Action Plan 2019-2024, the Strategic Environmental Assessment (SEA) Environmental Report and Appropriate Assessment (AA) Natura Impact Assessment Report, will be available for inspection at the following locations:

South Dublin County Council, County Hall, Tallaght, Dublin 24	Mon -Thurs 9.00 - 17.00, Fri 9.00 - 16.30
South Dublin County Council, Clondalkin Office, Co. Dublin	Mon -Thurs 9.00 - 17.00, Fri 9.00 - 16.30
Lucan Library	Mon -Thurs 9.45 - 20.00, Fri - Sat 9.45 - 16.30
Ballyroan Library	Mon -Thurs 9.45 - 20.00, Fri - Sat 9.45 - 16.30
Tallaght Library	Mon -Thurs 9.45 - 20.00, Fri - Sat 9.45 - 16.30
Clondalkin Library	Mon -Thurs 9.45 - 20.00,Fri - Sat 9.45 - 16.30

The documents may also be viewed on the Council's Public Consultation Portal http://consult.sdublincoco.ie and at www.dublinclimatechange.ie

Public Information Events

Members of the public and interested groups are invited to attend the following Public Information Events which will be held by South Dublin County Council;

	Climate Change Action Plan 2019 - 20 Public Consultation Event Information	
Date	Venue	Time
19Feb19	County Hall, Tallaght - you can register now on Eventbrite ie for this event	18.00 - 21.00
26Feb19	Lucan Library - no registration required	09.00 - 13.00
27Feb19	Ballyroan Library - no registration required	09.00 - 13.00
OlMar19	Tallaght Library - no registration required	09.00 - 13.00

Submissions

Submissions or observations with respect to South Dublin County Council draft Climate Change Action Plan 2019-2024, Strategic Environmental Assessment (SEA) Environmental Report and Appropriate Assessment (AA) Natura Impact Assessment Report are invited from members of the public and other interested parties.

Submissions can be made as follows:

Online at http://consult.sdublincoco.ie

By email to climateaction@sdublincoco.ie
Or By post/ hard copy addressed to:

The Senior Executive Officer, Environment, Water and Climate Change Department, South Dublin County Council, County Hall, Tallaght, Dublin 24, D24 YNNS.

Submissions or observations will be accepted from Monday II February 2019 to Monday 25 March 2019 inclusive.

The closing date for receipt of submission is Monday 25 March 2019 Submissions or observations should state your name, address, and where relevant, the organisation, body etc. represented. Please make your submission by one medium only, i.e. post / hard copy or email or online submission.

All submissions or observations received during the above time period will be taken into consideration before the making of the South Dublin County Council Climate Change Action Plan 2019-2024.

If you use assistive technology (such as screen readers) and need a version of any document in an accessible format (such as Word), please email climateaction@scdubincoco.e and the document in the format requested shall be provided in so far as this is reasonably practicable.

PLEASE NOTE: YOU ARE STONGLY ADVISED TO MAKE YOUR SUBMISSION/ OBSERVATION AS EARLY AS POSSIBLE. LATE SUBMISSIONS/ OBSERVATIONS WILL NOT BE ACCEPTED.

It should be noted that the Freedom of Information Act applies to all records held by South Dublin County Council.

All advertised information, maps and drawings in relation to South Dublin County Council is available on our website 24 hours a day, seven days a w

Web: www.sdcc.le

Appendix C: SEA Screening Conclusion and Determination and AA Screening Conclusion and Determination

SEA Screening Conclusion and Determination

A Strategic Environmental Assessment (SEA) Screening determination has been made by South Dublin County Council regarding actions as recommended by the Chief Executive Report on submissions made on the Draft CCAP 2019-2012.

Section 9 (1) of the (2004) Regulations (S.I. No. 435) (as amended) states "subject to sub-article (2), an environmental assessment shall be carried out for all plans and programmes

- (a) which are prepared for agriculture, forestry, fisheries, energy, industry, transport, waste management, water management, telecommunications and tourism, and which set the framework for future development consent of projects listed in Annexes I and II to the Environmental Impact Assessment Directive, or
- (b) which are not directly connected with or necessary to the management of a European site but, either individually or in combination with other plans, are likely to have a significant effect on any such site."

As the screening assessment under Schedule 1 of SI 435 of 2004 above demonstrates, the scale, size and location of the CE Recommendations as they relate to actions to the CCAP on foot of public submissions is not identified as giving rise to adverse effects on the environment.

This is due to the nature of the new actions which overall are positive for a number of Strategic Environmental Objectives including Climate Change, Population and Human Health, Material Assets, cultural heritage and landscape. The existing measures included in the SEA ER, Natura Impact Statement of the South Dublin CCAP 2019-2023 are identified as sufficiently robust and subject to their full implementation, no likely significant effects on the environment are identified.

This assessment is further supported by the Screening Statement in support of Appropriate Assessment.

AA Screening Conclusion and Determination

All actions recommended by the Chief Executive Report have been subject to screening for Appropriate Assessment. All actions have been found not to have the potential, alone or in combination with other plans or projects, to result in likely significant effects to European Sites. The inclusion of these actions in the CCAP will not have the potential to result in negative effects to the Conservation Objectives of European Sites occurring within the zone of influence of the CCAP and an Appropriate Assessment of these actions is not required







STRATEGIC ENVIRONMENTAL ASSESSMENT ENVIRONMENTAL REPORT

SOUTH DUBLIN COUNTY COUNCIL

DRAFT CLIMATE CHANGE ACTION PLAN

2019-2024

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1.1 Purpose of the Non-Technical Summary

This is the Non-Technical Summary of the environmental report for the Strategic Environmental Assessment (SEA) of the South Dublin County Council Draft Climate Change Action Plan (CCAP) 2019-2024. The purpose of the SEA is to formally and systematically assess the likely significant effects of implementing a plan or programme, in this instance the above Climate Change Action Plan 2019-2024.

The Environmental Report identifies the significant environmental effects of the plan on the environment and where significant effects are identified, recommends appropriate measures to avoid or reduce such effects. As the plan is being prepared the SEA identifies and influences proposals, particularly through avoiding areas of greatest environmental sensitivity. This Environmental Report forms part of the SEA process, documents the SEA process and is the key consultation document in the SEA process as it facilitates interested parties to comment on the environmental issues associated with the plan itself. This Environmental Report has been prepared under the Planning and Development (Strategic Environmental Assessment) Regulations 2004 (S.I 435 of 2004).

1.2 BACKGROUND AND CONTEXT

For the first time, Dublin's four local authorities have joined together to develop Climate Change Action Plans as a collaborative response to the impact that climate change is having, and will continue to have, on the Dublin Region and its citizens. While each plan is unique to its functional area, they are unified in their approach to climate change adaptation and mitigation, and their commitment to lead by example in tackling this global issue.

These CCAPs follow on from the publication of A Strategy for Climate Change Action Plans for the Dublin Local Authorities (DLAs), which was published in January 2017. The strategy used a structured approach that focused on seven key areas (Citizen Engagement, Planning, Energy, Transport, Water, Waste, and Ecosystems & Biodiversity), and set out how the DLAs would develop the four climate change action plans. The action plans will be unique to each local authority area but synchronised in their methodology.

This plan concentrates on the two approaches required to tackle climate change. The first, mitigation, consists of actions that will reduce current and future GHG emissions; examples of these include reductions in energy use, switching to renewable energy sources and carbon sinks. The second approach, adaptation, consists of actions that will reduce the impacts that are already happening now from our changing climate and those that are projected to happen in the future.

The actions in this draft CCAP for South Dublin County Council will be continually monitored and updated by a dedicated climate action team working across all Council departments. They will be assisted by the newly established Dublin Metropolitan Climate Action Regional Office, which will ensure that the overall plan is fully updated every five years to reflect latest policy, technology and climate-related impacts. The new office will work with Codema, as technical support and research partner, to ensure that the plans continue to be informed by national and international best practice.

The actions in the CCAP are presented around a number of themes as follows:

- · Energy and Buildings
- Transport
- Flood Resilience
- Nature Based Solutions
- Resource Management.

Collectively, these address the four targets of this plan, which are:

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

2 CONTENTS OF SEA ENVIRONMENTAL REPORT

2.1 Approach to the SEA.

The SEA has been carried out alongside the CCAP preparation. Table 1 below sets out the stages in the SEA process and how these relate to the plan preparation so far.

Table 1 Stages in the SEA and Plan preparation process

Stage of SEA	Plan
Stage 1 Screening	Screening is the first stage of SEA to determine if the plan requires full SEA. A SEA and Screening for Appropriate Assessment were carried out in December 2018 and it was determined that the CCAP needed to progress to full SEA and Stage II Appropriate Assessment.
Stage 2 Scoping	The purpose of this stage is to work out what environmental topics and issues should be included in the SEA. The Scoping report was issued to statutory bodies including the EPA and National Parks and Wildlife Service to discuss the potential environmental issues, baseline information, and approach to the SEA.
Stage3	This is the current stage of the SEA and the CCAP 2019-2024. The Environmental
Environmental	Report tells the story of the CCAP and how environmental considerations have been
Report-Current	addressed and included during the draft plan preparation process.
Stage	The screening for appropriate assessment and Natura Impact Report is also discussed in the Environmental Report.
	This report is the main consultation document of the SEA process and hence is on
	display alongside the plan along with supporting reports.
	Following the public display period there may be changes to the plan and the SEA will
	also assess these and update the Environmental Report as required.
Stage 4	This stage is the final output of the SEA process and tells the story of the SEA
SEA Statement	process. It is prepared once the plan is finalised and adopted.

2.2 RELATIONSHIP TO OTHER RELEVANT PLANS AND PROGRAMMES.

Under the SEA Directive, the relationship between the plan and other relevant plans and programmes must be taken into account. A review of the relevant plans and programmes can be found in Appendix B of the SEA ER and a list of same is presented in Chapter 3 of the SEA ER.

The preparation of the plan must be considered within the context of a hierarchy of policies, plans and strategies which include international, national, regional and local level policy documents. These documents set the policy framework within which the plan will operate.

2.3 CURRENT ENVIRONMENTAL BASELINE.

2.3.1 POPULATION AND HUMAN HEALTH

This section provides information on the current population and demographic trends in South Dublin and more broadly at Regional Level. Impacts can arise on people's health and quality of life from a

range of environmental factors, often through a combination of environmental impacts such as landuse, water quality, air quality, noise and transport patterns. Many of these may be exacerbated from climate change effects and impacts.

When compared with their surrounding regions, urban areas are considered to be particularly vulnerable to these climatic changes. This is due to: the high concentrations of population, infrastructure and economic activities located in these areas, the exacerbation of climate impacts by urban-scale phenomena and dependency on surrounding regions for service provision¹.

Based on the Census 2016 data, population density varies throughout the county, with implications in terms of provision of services, ecological connectivity and maximising sustainable transport and landuse. In terms of broad trends however greater population densities are present in the east and southeast of the county, closer to Dublin city; whilst the more rural areas including the foothills of the Dublin Mountains and around Saggart reflect this rural landuse and lower population densities.

Human health can be adversely affected by a range of environmental factors and these include air quality with emissions from transport a particular issue; noise can also adversely affect human health.

2.3.2 BIODIVERSITY, FLORA AND FAUNA

Within the County there are habitats of high biodiversity and conservation value and a number of designated sites associated within the county which are designated as Special Areas of Conservation (SACs), Special Protection Areas (SPAs) and Natural Heritage Areas (NHAs).

As natural habitats become more fragmented as a result of human activity, habitat patches and corridors within a landscape mosaic become increasingly important for species to allow movement between populations. Within the plan area, ecological corridors can include in particular, roadside grassy verges and streams and other waterbodies. Hedgerows and treelines can also function as locally important corridors for a number of species. Hedgerows are also particularly important for facilitating movement through the landscape for flying insects including butterflies, and bees.

Stepping stones relate to small pockets of habitat can be used by species to shelter, rest or food provision. They can play an important role in facilitating longer distanced dispersal as well as refuges for species to breed in. These can provide important links between larger protected areas and corridors, in this context, this could include small areas of wet grassland, ponds, meadow grassland habitats, and treelines. Important ecological corridors include:

- the Liffey Valley, connecting Wicklow, Kildare, South Dublin, Fingal and Dublin City;
- the Dodder Valley and tributaries, connecting South Dublin, Dun Laoghaire-Rathdown and Dublin City, and the
- Grand Canal which connects the River Shannon to Dublin City, through South Dublin.

2.3.3. WATER RESOURCES

Water resources and their quality have a clear interaction and impacts with other environmental parameters, therefore its protection and enhancement is of particular importance.

¹ This paragraph is taken from the Urb Adapt Project Summary running till 2019 will use the Dublin Region as a case study that will allow for the integrated assessment and management of current and future climate vulnerabilities within the context of existing climate and non-climate pressures and spatial planning practices. https://urbadapt.com/

The Water Framework Directive is the key overarching water protection framework and it uses a catchment based approach. A catchment is an area where water is collected by the natural landscape and flows from source through river, lakes and groundwater to the sea. South Dublin is situated within the Liffey and Dublin Bay Catchment (code: 09). The area of this catchment covers 1,624,42km² and supports a total population density of 777 people per km².

A strategic flood risk assessment was undertaken as part of the South Dublin County Development Plan 2016-2022. South Dublin is particularly vulnerable to fluvial and pluvial flooding events which occur as a result of storm events. The Dodder River, due to the short, steep descent between its source in the Wicklow Mountains, and the point at which it flows through built up urban areas, has a history of severe flooding events.

2.3.4 SOIL AND GEOLOGY

The northern half of South Dublin is formed of Carboniferous Limestone rocks deposited in a deep marine basin. These rocks were formed around 340 million years ago and are faulted against the older rocks along the base of the Dublin Mountains. Over the past 2 million years the Ice Age had a big effect on the landscape, eroding the mountains, depositing glacial gravels in places and then rivers such as the Dodder and Liffey have been active in recent times, modifying the sediments at surface. Bedrock geology around the foothills and upper hills of the Dublin Mountains which comprise the southern part of the county are more varied in origin and formation.

South Dublin includes existing areas under agricultural landuse and it is important to both recognise and promote this role in terms of the carbon storage capacity of soil, potential biodiversity and water benefits (subject to agricultural practice) and food security. There are 425 council allotments at four locations across South Dublin, ranging in size from 50 square metres to 250 square metres. These are located at

- Tymon Park, Tallaght 13
- Corkagh Park, Clondalkin 39
- Friarstown, Bohernabreena 297
- Mill Lane, Palmerstown 76.

2.3.5 CULTURAL HERITAGE

The heritage assets which South Dublin possesses are a reminder of the predominantly rural history of the County. These structures and objects store the folk memory of the rural villages, such as Clondalkin, Lucan and Tallaght, now subsumed within the Dublin Metropolitan area. Additionally, preserved buildings, remnant agricultural farm buildings and ancient walls and field systems also help acknowledge the recent past in places such as Saggart, Newcastle and Rathcoole, which are now subject to urban development pressure. The built form, materials and construction methods of older buildings help to illustrate to inhabitants of South Dublin the continuity and adaptation of County both economically and socially.

2.3.6 LANDSCAPE

The landscape of the County is varied, ranging from alluvial river valleys, to fertile fields, ancient monastic settlement villages surrounded by suburban residential and office parks, to mixed farming and forestry in the mountainous uplands.

2.3.7 AIR QUALITY AND CLIMATIC FACTORS

The Air Quality Index for health (EPA) provides air quality information with health advice for both the general public and people sensitive to air pollution. The index is displayed on a colour-coded map, updated hourly. The index is based on information from monitoring instruments at representative locations in each region. South Dublin is located within the 'Dublin City' region. Air Quality is generally classified as 'good'.

Adaption and responding to climate change is a key objective the CCAP and the following baseline is taken from the SDCC CCAP. The adaptation baseline has identified that the effects of climate change are already impacting South Dublin at a significant rate and are very likely to increase in their frequency and intensity. The number of days with heavy rainfall has increased and the amount of extreme flooding events has also risen in the last 10 years. South Dublin has also experienced extreme temperatures, as witnessed recently in 2018, with Met Éireann issuing its first ever Status Red warning for snow in February, followed by one of the hottest summers on record during June and July. All these extreme weather events clearly highlight the need to reduce the impacts that climate change is having on the environment, the economy and the citizens of Dublin.

The mitigation baseline calculates the greenhouse gas emissions for the council's own activities and also for the entire County (including a breakdown of the residential, transport and commercial sectors). SDCC's emissions decreased from 14,230 tonnes of CO2 in 2009 to 11,800 tonnes of CO2 in 2017. This means that SDCC is now 3,270 tonnes of CO2 (23%) away from the 2030 target of a 40% emission reduction, from its baseline year.

The most recently-available information for total emissions in the entire South Dublin area is based on Census 2016 data. Therefore, using this data, Codema was able to calculate that the total GHG emissions for the South Dublin area amounted to 1,877,910 tonnes of CO2 equivalent in 2016. The sectors that produced the most emissions were the transport, commercial and residential sectors, accounting for 39%, 32% and 24% of the total emissions, respectively. South Dublin County Council's own emissions amounted to only 1% of this total, with social housing contributing another 2%. This highlights the need for collaboration and action from all stakeholders to tackle the remaining 97% of emissions from public and private sector sources in the County.

2.3.8 MATERIAL ASSETS

South Dublin is serviced by 847 km of Roads. Two national primary routes the N4 and N7 traverse the county, and the busiest stretch of road in the country - the M50 between the Red Cow junction and the junction with the N4 is also in the county. A critical issue is that much of the traffic on these arteries is passing through and not stopping in the county. Additional issues include a lack of connectivity within the County both for soft and hard transport methods.

The public transport options in the county include the Luas Red Line, the main Kildare-Dublin Railway Line as well as a number of buses including quality bus corridors. BusConnects will also address connectivity and enhance options for bus travel upon delivery.

Walking and cycling has also seen significant investment and the Greater Dublin Area (GDA) Cycle Network Plan was published in 2013. . SDCC was a central stakeholder in the cycle analysis for the Greater Dublin Area. The aim of the Plan was to identify and prioritise opportunities for investment in the cycle network.

Almost all of the waste water in South Dublin is currently treated in Ringsend Wastewater Treatment Works which discharges into Dublin Bay. The treated waters are treated to a Tertiary standard, which is in compliance with the Urban Wastewater Treatment Directive. The quality of the discharged waters is within the requirements of the Urban Waste Water Treatment Directive.

The Greater Dublin Drainage Scheme will represent a significant wastewater infrastructure development for the Greater Dublin Regional area which will allow for an underground orbital sewer and two pumping stations, a new wastewater treatment plan at Clonshaugh (in Fingal County) and an outfall pipe located 6km out to sea from Baldoyle Bay.

The Greater Dublin Water Supply Area (GDWSA) is served by 5 major water treatment plants, Ballymore Eustace, Srowland, Leixlip, Ballyboden and Vartry, and a number of smaller sources. The total capacity of current sources and treatment plants is 598ML/day and based on proposed capital investment between 2017 and 2024 this water available from existing sites will increase to 656ML/day. It is anticipated that Dublin will need a new major water source by 2025, based on projection of growth in the Greater Dublin Area. Irish Water is currently planning the development of a new major water source for the East and Midlands which will include supplying projected demand in the GDA water supply area. Irish Water is also currently implementing a major water conservation programme in order to maximise the availability of treated water from current sources.

The Regional Waste Management Plan 2015-2024 for the Eastern-Midlands Region encompasses the local authorities: Dublin City, Dún Laoghaire- Rathdown, Fingal, South Dublin, Kildare, Louth, Laois, Longford, Meath, Offaly, Westmeath and Wicklow. The regional plan provides the framework for waste management for the next six years and sets out a range of policies and actions in order to meet the specified mandatory and performance targets.

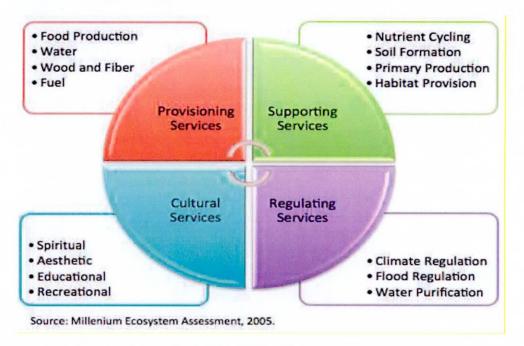
South Dublin County Council will be committing a certain amount of waste to the thermal treatment plant in Ringsend within Dublin City Councils administrative area, the construction and use of which forms a part of the waste management strategy for the Greater Dublin Area.

2.3.9 INTER-RELATIONSHIPS

ECOSYSTEM SERVICES

Awareness about the roles and functions of ecosystems has increased in recent years and it can be a useful means to highlight their importance and value services to society. The Economics of Ecosystem Services and Biodiversity (TEEB) study defines ecosystem services as: 'the benefits people receive from ecosystems'. Humans are ultimately dependant on the natural environment and ecosystem services highlight how these systems provide and interact to create the essential components for human well- being. Four key services are identified for ecosystems and are shown in the following Figure 1.

FIGURE 1 ECOSYSTEM SERVICES.

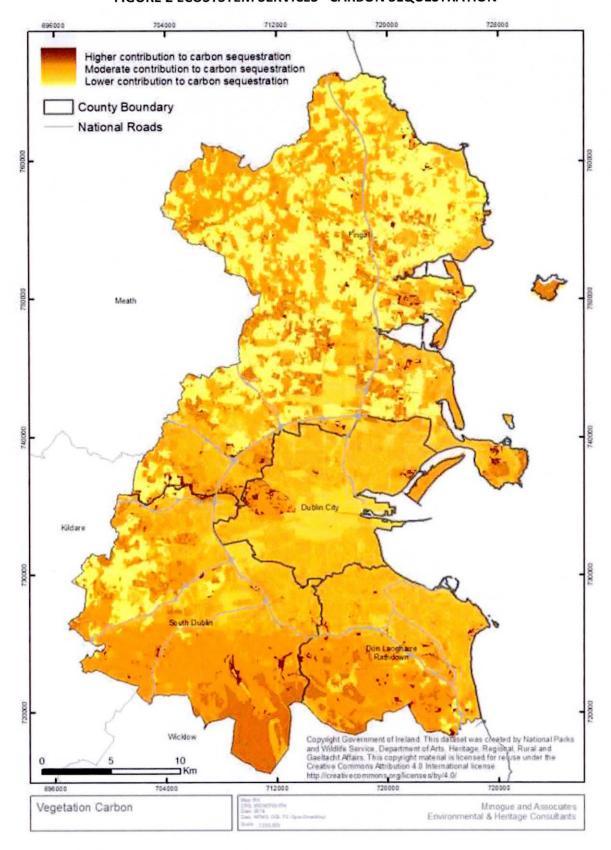


NATIONAL ECOSYSTEM AND ECOSYSTEM SERVICES MAPPING PILOT (NPWS)

The National Parks and Wildlife Service (NPWS) commissioned a short project for a National Ecosystem and Ecosystem Services mapping pilot for a suite of prioritised services based on available data. The project completed in 2016. Maps showing water filtration and storage are included in the SEA ER (chapter Seven) and the map (Figure 2)below shows carbon sequestration.

In the context of South Dublin, the above assessment demonstrates the importance of the foothills and uplands in terms of water storage, filtration and carbon sequestration. The agricultural lands in the lowlying western and southern parts of the county also fulfil an important role in water services.

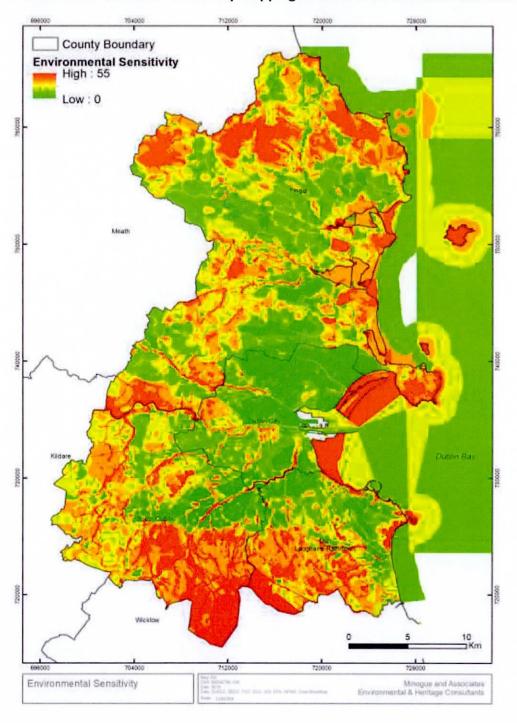
FIGURE 2 ECOSYSTEM SERVICES - CARBON SEQUESTRATION



2.3.10 ENVIRONMENTAL SENSITIVITY.

In accordance with the SEA Directive, the interrelationship between the environmental parameters above must be taken into account. Although all such parameters may be considered interrelated and may impact on each other at some level. The Figure below shows the overall environmental sensitivity for the plan area and sphere of influence, and follows the same approach (i.e.: ranking of environmental parameters) as that used in the SDCC CDP 2016-2022 SEA process.

FIGURE 3 Environmental sensitivity mapping of the four Dublin Local Authorities



3 STRATEGIC ENVIRONMENTAL OBJECTIVES AND CONSIDERATION OF **ALTERNATIVES**

3.1 STRATEGIC ENVIRONMENTAL OBJECTIVES

Climate

The purpose of the SEA Objectives is to ensure that the assessment process is transparent and robust and that the CCAP considers and addresses potential environmental effects. SEA Objectives have been set for each of the ten environmental topics identified at the Scoping Stage of the SEA process.

These objectives are derived from the principles identified through the plan, policy and programme review and align where possible with the SEOs developed for the SDCC Development Plan 2016-2022. Where they differ from the CDP 2016-2022 objectives, the text is shown in italic bold font. The results of this are summarised in a table, called an evaluation matrix (See Chapter Seven and Annex A of the SEA ER).

TABLE 2 STRATEGIC ENVIRONMENTAL OBJECTIVES

SEA Topic	Strategic Environmental Objectives
Biodiversity Flora and	To avoid loss of habitats, geological features, species or their sustaining resources in designated ecological sites
Fauna	
	To avoid significant adverse impacts, including direct, cumulative and indirect impacts, to habitats, geological features, species or their sustaining resources in designated ecological sites by development within or adjacent to these sites
	To sustain, enhance or - where relevant - prevent the loss of ecological networks or parts thereof which provide significant connectivity between areas of local biodiversity
Population and human health	To protect human health from hazards or nuisances arising from traffic and incompatible landuses.
Water	To maintain and improve, where possible, the quality of rivers, lakes and surface water.
	To prevent pollution and contamination of ground water
	To prevent development on lands which pose - or are likely to pose in the future – a significant flood risk
Air Quality and	To minimise increases in travel related greenhouse emissions to air



To reduce car dependency within the County by way of, inter alia, encouraging modal change from car to more sustainable forms of public transport and encouraging development which will not be dependent on private transport

Soil and Geology

To maximise the sustainable re-use of brownfield lands and the existing built environment, rather than developing greenfield lands



To minimise waste production and reduce the volume of waste to landfill and to operate sustainable waste management practices

Materia Assets

To maintain and improve the quality of drinking water supplies



To serve new development under the CDP with appropriate waste water treatment



To minimise waste production and reduce the volume of waste to landfill and to operate sustainable waste management practices.

To protect the archaeological heritage of South Dublin with regard to entries to the Record of Monuments and Places - including Zones of Archaeological Potential - and the context of the above within the surrounding landscape where relevant



To preserve and protect the special interest and character of South Dublin's architectural heritage with regard to entries to the Record of Protected Structures, Architectural Conservation Areas, and their context within the surrounding landscape where relevant



To protect and avoid significant adverse impacts on the landscape, landscape features and designated scenic routes; especially with regard to areas of high amenity, the Dublin Mountain Area, and the Liffey and Dodder Valleys.



Interrelationships

Maintain and improve the health of people, ecosystems and natural processes

Actively seek to integrate opportunities for environmental enhancement during adaptation to climate change

3.2 Consideration of Alternatives

One of the critical roles of the SEA is to facilitate an evaluation of the likely environmental consequences of a range of alternative development scenarios, in this case the SDCC CCAP 2019-2024. These alternative development scenarios should meet the following considerations:

- Take into account the geographical scope, hierarchy and objectives of the plan –be realistic
- Be based on socio-economic and environmental evidence be reasonable
- Be capable of being delivered within the plan timeframe and resources –be implementable
- Be technically and institutionally feasible be viable.

6.2 ALTERNATIVES CONSIDERED

In a Strategy Towards Climate Change Actions Plans for Dublin 2017, seven focus areas were identified as having the greatest potential to help the Dublin LAs move towards a zero-carbon society and adapt to the effects of climate change. These focus areas were as follows:

 Water, Waste, Planning, Transport, Energy, Ecosystems and Biodiversity and Citizen Engagement.

The focus areas can have predominately either mitigation or adaptation solutions, or both. For example, the Energy focus area mainly concerns mitigation (ie. reducing the use of fossil fuels and their associated CO2 emissions), while Water largely focuses on adapting to changes that are occurring or will occur in the near future due to climate change. Meanwhile, the Citizen & Stakeholder Engagement focus area concerns both mitigation and adaptation.

The aim of the CCAP is to work with the other Dublin local authorities in a co-ordinated manner to achieve the actions identified as being capable of implementing over a Five Year Period whilst also contributing to both mitigation and adapting to climate change. The following alternatives were considered:

- Alternative 1: Do-Nothing (rely CDP policies and objectives to address and adapt to climate change)
- Alternative 2: Prioritise largest greenhouse gas emission sectors –Energy and Transport
- Alternative 3: Approach the priority areas in a balanced manner to provide for both responses to climate change impacts (adaptation) and reduce greenhouse gas emissions mitigation).

In terms of all SEOs, Alternative 3 is identified as creating most positive interactions as it provides greater environmental performance overall and also allows for a greater environmental gains, than may be achieved through Alternatives 2 and 1. In addition, the multi- faceted approach contributes to greater co-benefits by providing for a wider range of environmental effects particularly around nature based solutions and resource management. The inclusion of measures for citizen engagement and awareness raising through the CCAP option is also positive for a number of SEOs.

4 ASSESSMENT OF SIGNIFICANT EFFECTS AND MITIGATION MEASURES

4.1 SIGNIFICANT EFFECTS

Population and Human health: Many of the actions identified in the CCAP give rise to long term positive effects on population and human health both by responding and adapting to the impacts of climate change, and also reducing greenhouse gas emissions through a series of measures.

Reflecting the opportunity for co-benefits of the CCAP, measures around energy efficiency and district heating opportunities can help address fuel poverty in relation to vulnerable individuals as well as the chance to reuse energy from within the local area, for example Energy: Action 11 deep retrofitting of housing stock

Biodiversity, Flora and Fauna: The promotion of a nature based measures and resource management in particular along with blue and green infrastructure actions all strengthen overall protection of biodiversity resources and the Biodiversity SEOS.

Mapping habitats, identification and control measures for invasive species, leaf composting, and tree canopy and hedgerow mapping are examples of actions that are long term positive and consistent with these SEOs..

Water Resources: The South Dublin CDP 2016-2022 already includes a range of provisions and measures to address and minimise adverse effects, including measures around green infrastructure, flood risk management and development control.

The CCAP however further enhances and strengthens these through the flood resilience actions and nature based solutions in particular. Additional tree planting and woodland strategy (Actions 12 to 15) provide for positive effects as they reduce soil run off and allow for water attenuation and filtration. Again this provides for longer, positive effects associated with linear habitat creation and ecological connectivity.

Soil and Geology: Soil quality and function may be enhanced through particular measures associated with flood resilience, nature based solutions and resource management in particular.

Awareness raising around illegal dumping and Action 18 leaf composting can generate positive effects on soil through enhancement of the resource and a more sustainable approach to enriching soil. A number of the measures relating to flood resilience including recognition of flood plains and production of Regional Flood Plain Management Guidelines (Action 5) indirectly benefit soil and geology SEOs.

Air Quality and Climate: Overall the CCAP will contribute positively to climate change adaptation through the following:

- Blue and green infrastructure giving rise to increased surface water storage and potential carbon sequestration
- Focus on energy efficiency and innovation as seen through the actions identified in the Energy Theme, examples include
- Action 4 and 5 provides for an evidence based climate change chapter in the County Development Plan and Local Area Plan for Tallaght, both of which will allow for policy responses and in the CDP context, landuse zoning responses based on the evidence prepared.

Key measures relating to behavioural change around transport and the increase in walking/cycling and public transport measures are essential in addressing transport emissions over the lifetime of the CCAP and beyond.

Recognising the ecosystems functions of soil, water and biodiversity is a key element in the Nature Based solutions theme and is an important acknowledgement that also provides for positive effects across a number of SEOs.

The CCAP includes targets relating to 40% reduction in the councils' Greenhouse Gas Emissions by 2030 (primarily through lighting and energy measures), a 33% improvement in the councils energy efficiency by 2020. However the CCAP also acknowledges that the council's outputs are relatively minor given the wider sectoral emissions in the county and this is why many of measures relate to the council leading on climate action, promoting behavioural change, facilitating sustainable transport options, promoting increased energy efficiency and supporting nature based solutions and citizen engagement.

Cultural Heritage: Archaeology and Built heritage features are present throughout the plan area, and in particular those archaeological or built heritage features associated with the rivers or floodplains may be particularly vulnerable to climate change effects.

Material Assets: Transport and Flood Resilience in particular provide for mitigation and adaptation with a view to minimising adverse effects of climate change on material assets, and also responding and facilitating behavioural and modal change in energy use and transport. Examples of these include the following:

- Masterplan for the Dublin Region, and Action 15: Replace 4,000 SOX lights with LED
- Transport: Action 11: Development of pedestrian/cycle greenways, Action 15: Cycle training programme for 6th Class students/ pedal power labs
- Flood Resilience: whilst most of the measures here mitigate and adapt to climate change, with accompanying positive effects on material assets SEOs, Actions 13 and 15 are recommended for mitigation to allow for the inclusion of 'environmental externalities' in any costing exercise, as well as promotion of natural flood measures as a priority in any updated guidelines or policies. Similarly with Action 21 awareness raising, the action is recommended for mitigation to help raise awareness and understanding of more nature based flood measures

Landscape: Long term positive effects are identified for the CCAP and landscape primarily through the nature based solutions, public realm enhancement, green and blue infrastructure, increased tree planting etc.

Many of the measures in the CCAP require a landscape level response such as Regional Flood Plain management guidelines, recognition of green and blue infrastructure and corridors and this an important approach to take when responding to climate change.

In combination and cumulative effects: Cumulatively and in combination, several of the CCAP Actions encourage a modal shift and in turn gives rise to indirect positive effects, for example by creating more physical activity in terms of travel to work and school, positively affecting air quality with accompanying benefits to both population and human health. In addition, this can create a reduction in emissions associated with Particulate Matter and Nitrogen Dioxide. This benefits both human health as well as Biodiversity, flora and fauna and surface water features.

The majority of the Flood Resilient measures are identified as being consistent and positive across all SEOs, in particular measures that promote natural based solutions such as tree planting and SUDs are all positive across all parameters and can provide multi-functional benefits in the landscape.

In combination and cumulative effects are particularly relevant to the Nature Based solutions actions which together create long term positive effects across Population, Landscape, Biodiversity, Soil and Geology, Water and Material Assets whilst responding to climate change effects.

The resource management is also a critical theme as it promotes reduction and reuse and measures around illegal dumping and leaf composting all interact to generate positive effects.

Threaded throughout the CCAP is the theme of citizen engagement and awareness raising and this is critical to both inform, educate and engage citizens in relation to responding to climate change, whilst also identifying positive measures. Many of the engagement actions should increase public awareness and a sense of responsibility, collective and individual action in addressing and adapting to climate change. Positive in combination effects are identified for human health around modal shifts, and green infrastructure, behavioural change, tree planting and responding to flood risk.

4.2 MITIGATION MEASURES

Although most of the actions are identified as being consistent with the SEOs, a small number of actions mainly around Transport and Flood Resilience were identified as meriting additional mitigation measures. These are provided in Table 2 below:

TABLE 2 MITIGATION MEASURES

	Mitigation Measure	Included	in	CCAP?	Yes/
		no			
	An integrated approach to decision making in relation to these climate change actions is recommended.				
	Transport Actions				
5	Strengthen traditional villages by improving the public realm through enhancement of green infrastructure measures and sustainable transport linkages				
	Flood Resilience				
13	Develop template to capture impacts, response and costs (including ecosystem services/natural capital costs) for all major climate events				
15	Update DLA urban drainage and flooding policies for current knowledge of flood risk and the latest best practice in drainage design promoting natural flood measures as a priority				
20	Minor flood schemes and general maintenance that are designed and implemented to promote nature based solutions where practical				
21	Communication and awareness campaigns on flood risk	Yes			

	management and natural flood management measures			
	Nature Based Solutions			
22	Include native species into local authority plans where Yes			
	appropriate as a key nature based measure where appropriate			

5 MONITORING

It is proposed, in accordance with Article 10 of the SEA Directive, to base monitoring on a series of indicators which measure changes in the environment, especially changes which are critical in terms of environmental quality, for example water pollution levels. Monitoring will focus on the aspects of the environment that are likely to be significantly impacted upon by the implementation of the CCAP 2019-2024.

The monitoring programme will consist of an assessment of the relevant indicators and targets against the data relating to each environmental component. Similarly, monitoring will be carried out frequently to ensure that any changes to the environment can be identified. This Climate Change Action Plan was developed through the Environment, Public Realm and Climate Change SPC of South Dublin County Council and approved by the full County Council. The Director of Environment, Water and Climate Change will report on progress to the SPC annually and the SPC will monitor progress towards the set targets. Every five years there will be a full review and revision of the plan taking into account demographic, technical and other changes that have occurred and any new targets that have been introduced.

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source	
Biodiversity Flora and Fauna	To avoid loss of habitats, geological features, species or their sustaining resources in designated ecological sites	Percentage of relevant habitats lost as a result of implementation of the CCAP	No losses of relevant habitats, species or their sustaining resources in designated ecological sites as a result of implementation of the CCAP	Designated ecologic sites mapping, CORINE Mapping, National Parks and Wildlife Service Records & Development Management Proce in SDCC.	
	To avoid significant adverse impacts, including direct, cumulative and indirect impacts, to habitats, geological features, species or their sustaining resources in designated ecological sites by development within or adjacent to these sites.	Number of significant adverse impacts, including direct, cumulative and indirect impacts, to relevant habitats, geological features, species or their sustaining resources in designated ecological sites	No significant adverse impacts, including direct, cumulative and indirect impacts, to relevant habitats, geological features, species or their sustaining resources in designated ecological sites by development	Designated ecological sites mapping, Development Management Proces in SDCC Council & Consultation with the National Parks and Wildlife Service Primary ecological corridors mapping, CORINE mapping and Development Management Proces in SDCC.	

EA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
		by development within or adjacent to these sites as a result of implementation of the CCAP	within or adjacent to these sites as a result of implementation of the CCAP	
	To sustain, enhance or - where relevant - prevent the loss of ecological networks or parts thereof which provide significant connectivity between areas of local biodiversity.	Area of Biodiversity Network (County's primary ecological corridors which has been lost without mitigation)	No ecological connectivity provided by the area's primary ecological corridors to be lost without mitigation as a result of implementation of the CCAP.	
		Percentage loss of functional connectivity without remediation resulting from development provided for in	No significant ecological networks or parts thereof which provide functional connectivity to be lost without remediation	

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
		the CCAP	resulting from development provided for in the CCAP	
Population and human health Noise	To protect human health from hazards or nuisances arising from traffic and incompatible landuses in particular noise and light pollution.	Number of occasions that PM ¹⁰ limits have been exceeded in at Air Monitoring stations closest to CCAP lands ² . Number of complaints from the CCAP re; noise, light and	Reduce number of people exposed to traffic noise and air quality levels which endanger health and quality of life.	South Dublin County Council, EPA
Air Quality and Noise	To minimise air, noise and light pollution where possible.	air quality. Number of air, noise and light pollution measures including in each phase (may be in conjunction	Air, noise and light pollution measures designed into CCAP	South Dublin County Council

² Currently air quality monitoring closest station is at Tallaght.

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
		with green infrastructure measures)		
Water	To maintain and improve, where possible, the quality of rivers, lakes and surface water.	Biotic Quality Rating (Q Value) and risk assessment.	To maintain a biotic quality rating of Q4, in line with the requirement to achieve good water status under the Water Framework Directive, by	Environmental Protection Agency.
			2027.	Environmental Protection Agency
			To improve biotic quality ratings, where possible, to Q5.	As noted under Section 2.3.1, data may not be available for this indicator when the monitoring evaluation is being prepared.
	To prevent pollution and contamination of ground water.	Groundwater Quality Standards and Threshold Values under	Compliance with Groundwater Quality Standards and	SDCC Irish Water EPA

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
		Directive 2006/118/EC.	Threshold Values under Directive 2006/118/EC.	
	To prevent development on lands which pose - or are likely to pose in the future – a significant flood risk	Implementation and monitoring of Strategic Flood Risk Assessment for CCAP	No significant flood events associated with development activities on CCAP.	Development Management Process in South Dublin County Council
Soil and Geology	To conserve soil resources where possible.	Area of greenfield land developed.	S1ii: To reduce the amount of Greenfield lands developed	Development Management Process in SDCC As above
		Number of contaminated sites identified and remediated.	subject to CCAP Objectives To meet national and EU targets on the	Environmental Services Dept. SDCC Annual Waste Arisings Report from Environmental
		Volume of waste recycled and volume of waste sent to landfill.	recycling of municipal waste and its diversion from landfill	Services Dept. SDCC
Material Assets	To maintain and improve the quality of drinking water supplies.	Drinking water quality standards,	To maintain and improve drinking water	SDCC Irish Water EPA

EA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
		(Microbiological, Chemical and Indicator parameters)	quality in South Dublin County to comply with requirements of the European Communities (Drinking Water) Regulations 2000	
	To serve new development under the CCAP with appropriate waste water treatment	Phasing Programme of CCAP	All new developments to require appropriate waste water systems.	SDCC Irish Water EPA
	To reduce car dependency within the CCAP by way of, inter alia, encouraging modal change from car to more sustainable forms of public transport and encouraging development which will not be dependent on private transport.	Extent of developments built within the CCAP lands of high quality public transport accessibility.	An increase in the percentage of the population within the County travelling to work or school	SDCC CSO Census
		Percentage of population within the CCAP	by public transport or non-mechanical	

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
		lands travelling to work or school by public transport or non-mechanical means	means. A decrease in the average distance travelled to work or school by the population of the County.	
	To minimise waste production and reduce the volume of waste to landfill and to operate sustainable waste management practices	Volume of waste recycled and volume of waste sent to landfill	To meet national and EU targets on the recycling of municipal waste and its diversion from landfill	Development Management Process in SDCC As above Environmental Services Dept. SDCC Annual Waste Arisings Report from Environmental Services Dept. SDCC
Cultural Heritage	To protect the archaeological heritage of South Dublin with regard to entries to the Record of Monuments and Places - including Zones of Archaeological Potential - and the context of the above within the surrounding landscape where relevant.	Percentage of entries to the Record of Monuments and Places - including Zones of Archaeological	Protect entries to the Record of Monuments and Places - including Zones of Archaeological Potential (and	SDCC Development Control

EA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
		Potential (and the context of the above within the surrounding landscape where relevant) - protected	their context of the above within the surrounding landscape where relevant)	
		Number of archaeological surveys required as part of planning applications	Protect unknown archaeological resources within CCAP area.	
		Conditions attached to permissions on archaeological monitoring during excavations.		
	To preserve and protect the special interest and character of the CCAP lands architectural heritage with regard to entries to	Percentage of entries to the Record of Protected	Protect entries to the Record of Protected Structures	SDCC

EA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
	the Record of Protected Structures, the Architectural Conservation Area and their context within the surrounding landscape where relevant.	Structures (and/or their context within the surrounding landscape where relevant) protected.	(and/or their context within the surrounding landscape where relevant)	
		Number of architectural condition surveys attached to planning applications.	reuse architectural heritage structures and features	
Landscape	To protect and avoid significant adverse impacts on the landscape, landscape features and designated scenic routes; especially with regard to areas of high amenity.	The creation of a sense of place and coherence/ appreciation for the overall setting and context of the CCAP.	Creation of sense of place with all phases of development associated with CCAP	SDCC
		Number of		

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
		development applications with landscape and habitat plans and Design Statements. Amount of land allocated to temporary greening		
Climate Change and energy	To integrate climate change adaptation to the CCAP process	Number of SUDs measures included and developed as part of CCAP	Integrated blue and green infrastructure through the CCAP	SDCC
		of additional tree planting as part of applications.		
	Interrelationships Maintain and improve the health of people, ecosystems and natural processes	Blue and Green Infrastructure measures implemented	Integration of blue and green infrastructure measures	SDCC

SEA Topic	Strategic Environmental Objectives	Indicator	Target	Data Source
	Actively seek to integrate opportunities for environmental enhancement during adaptation to climate change	over lifetime of plan Number of Blue infrastructure features included in development.	including in approved planning applications within South Dublin including SUDS, Integrated Wetlands, Hedgerows, Native tree planting scheme	

5.2 CONCLUSION

This SEA Environmental Report demonstrates how environmental parameters have been addressed in the plan preparation process. Consultation has been undertaken for the Scoping of this Environmental Report and further opportunity to comment on the CCAP will be possible over the forthcoming weeks.

The SEA and Appropriate Assessment processes have been undertaken in line with the Planning and Development (Strategic Environmental Assessment) Regulations 2004 to 2011 (as amended). Subject to the full and proper implementation of the mitigation measures outlined in this SEA Environmental Report and the Proposed CCAP, it is considered that significant adverse impacts on the environment will be avoided.

SOUTH DUBLIN COUNTY COUNCIL

Strategic Environmental Assessment Environmental Report- South Dublin County Council Climate Change Action Plan 2019-2024

Prepared under the Planning and Development (Strategic Environmental Assessment) Regulations 2004. (S.I. 435/2004)

Minogue and Associates February 2019 This report has been prepared by Minogue & Associates with all reasonable skill, care and diligence. Information report herein is based on the interpretation of data collected and has been accepted in good faith as being accurate and valid.

This report is prepared for South Dublin County Council and we accept no responsibility to third parties to whom this report, or any part thereof, is made known. Any such party relies on the report at their own risk.

Version

Prepared by

Reviewed

Draft 21.01.2019

R Minogue MCIEEM

Draft 2 05022019

RM

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1 INTRODUCTION

1.1 PURPOSE OF THIS SEA ENVIRONMENTAL REPORT

This Environmental Report has been prepared as part of the Strategic Environmental Assessment (SEA) of the Climate Change Action Plan 2019-2024 (CCAP) prepared by Codema, the Dublin Energy Agency and South Dublin County Council.

It sets out how the SEA has been undertaken and presents the findings of the assessment of the actions on the CCAP together with its' reasonable alternatives.

The Environmental Report complies with the requirements of the Directive 2001/42/EC on the assessment of the effects of certain plans and programmes on the environment (the SEA Directive) as implemented in Ireland through Statutory Instrument (SI) No.435 of 2004 European Communities (Environmental Assessment of Certain Plans and Programmes) Regulations 2004 (as amended).

These regulations are a statutory requirement for plans or programmes which could have significant environmental effects, and the assessment process aims to identify where there are potential effects and how any negative effects might be mitigated.

The Environmental Report is required to include information that may be reasonably required, taking into account the following:

- Current knowledge and methods of assessment;
- Content and level of detail in the draft CCAP;

- Stage of the proposed CCAP in the decision-making process and
- The extent to which certain matters are more appropriately assessed at different levels in the decision-making process in order to avoid duplication of environmental assessment.

It is important to note that many of the actions included in the CCAP for South Dublin are identified as generating positive effects across a number of SEA parameters. The SEA Screening report included in the SEA Scoping Report of December 2018 supported this assessment. A small number of actions, primarily around transport proposals were identified through the screening for Appropriate Assessment as potentially giving rise to likely significant effects in the absence of mitigation, and this therefore triggered the requirement for a Stage II Appropriate Assessment and full Strategic Environmental Assessment.

1.2 Scale, NATURE AND LOCATION OF SOUTH DUBLIN CCAP

For the first time, Dublin's four local authorities have joined together to develop Climate Change Action Plans as a collaborative response to the impact that climate change is having, and will continue to have, on the Dublin Region and its citizens. While each plan is unique to its functional area, they are unified in their approach to climate change adaptation and mitigation, and their commitment to lead by example in tackling this global issue.

These CCAPs follow on from the publication of A Strategy for Climate Change Action Plans for the Dublin Local Authorities (DLAs), which was published in January 2017. The strategy used a

structured approach that focused on seven key areas (Citizen Engagement, Planning, Energy, Transport, Water, Waste, and Ecosystems & Biodiversity), and set out how the DLAs would develop the four climate change action plans. The action plans will be unique to each local authority area but synchronised in their methodology.

This plan concentrates on the two approaches required to tackle climate change. The first, mitigation, consists of actions that will reduce current and future GHG emissions; examples of these include reductions in energy use, switching to renewable energy sources and carbon sinks. The second approach, adaptation, consists of actions that will reduce the impacts that are already happening now from our changing climate and those that are projected to happen in the future.

The actions in this draft CCAP for South Dublin will be continually monitored and updated by a dedicated climate action team working across all Council departments. They will be assisted by the newly established Dublin Metropolitan Climate Action Regional Office, which will ensure that the overall plan is fully updated every five years to reflect latest policy, technology and climate-related impacts. The new office will work with Codema, as technical support and research partner, to ensure that the plans continue to be informed by national and international best practice.

The actions in the CCAP are presented around a number of themes as follows:

- · Energy and Buildings
- Transport
- Flood Resilience
- Nature Based Solutions

· Resource Management.

Collectively, these collectively address the four targets of this plan, which are:

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

As such, this CCAP encompasses the functional and administrative area of South Dublin County.

1.3 STRATEGIC ENVIRONMENTAL ASSESSMENT

Under Directive 2001/42/EC - Assessment of Effects of Certain Plans and Programmes on the Environment, certain plans and programmes require an environmental assessment. This is known as the Strategic Environmental Assessment (SEA) Directive. Article 1 of this Directive states that its objective is:

'to provide for a high level of protection of the environment and to contribute to the integration of environmental considerations into the preparation and adoption of plans and programmes with a view to promoting sustainable development.'

1.3.1 Structure and Preparation of this Environmental Report

Regulations contained in Schedule 2B of Statutory Instrument (S.I.) 436 of 2004(as amended) details the information to be contained in an Environmental Report. The following Table 1 lists the information required and details where this information is contained in this Environmental Report.

TABLE 1 INFORMATION REQUIRED TO BE CONTAINED IN AN ENVIRONMENTAL REPORT.

Schedule 2B of Statutory Instrument 436 of 2004	Addressed in this SEA ER
(a) an outline of the contents and main objectives of the plan and relationship with other relevant plans	Chapter One Introduction and Chapter Two Methodology outlines contents and main objectives Chapter Three details the relationship with other relevant plans
(b) the relevant aspects of the current state of the environment and the likely evolution thereof without implementation of the plan	Chapter Four Baseline Environment provides this information
(c) the environmental characteristics of areas likely to be significantly affected	Chapter Four Baseline Environment provides this information
(d) any Issues and Threats problems which are relevant to the plan including, in particular, those relating to any areas of a particular environmental importance, such as areas designated pursuant to the Birds Directive or Habitats Directive	Chapter Four Baseline Environment provides this information
(e) the environmental protection objectives, established at international, European Union or national level, which are relevant to the plan and the way those objectives and any environmental	Chapter Five: SEA Objectives provides this information

considerations have been taken into
account during its preparation

(f) the likely significant effects on the environment, including on issues such as biodiversity, population, human health, fauna, flora, soil, water, air, climatic factors, material assets, cultural heritage including architectural and archaeological heritage, landscape and the interrelationship between the above factors

Chapter Seven, Significant Effects on the Environment provides this information

(g) the measures envisaged to prevent, reduce and as fully as possible offset any significant adverse effects on the environment of implementing the plan Chapter Eight, Mitigation Measures provides this information

(h) an outline of the reasons for selecting the alternatives dealt with, and a description of how the assessment was undertaken including any difficulties (such as technical deficiencies or lack of knowhow) encountered in compiling the required information

Chapter Six, Alternatives Considered provides this information and difficulties encountered are listed at the end of Chapter Two, Baseline Environment.

(i) a description of the measures envisaged concerning monitoring of the significant environmental effects of implementation of the plan

Chapter Nine, Monitoring provides this information

(j) a non-technical summary of the information provided under the above headings

This is provided as a separate document to this Environmental Report but is also available

1.4 REPORT PREPARATION

The SEA Team worked with the SDCC technical staff team and other specialists. The following consultants prepared this SEA ER:

 Ruth Minogue MCIEEM, AILI, (BSoc Sc) Social Anthropology, University of Manchester 1996, MA (Econ) Environment and Development, University of Manchester 1998, Dip Field Ecology, University College Cork 2003, ongoing CPD including certificate in Health Impact Assessment (2012) and diploma in Planning and Environmental Law (2017);

- Pat Doherty MCIEEM, MSc in Applied Environmental Science (Ecology), University College Dublin, 2003;BSc (Honours) in Environmental Earth Science, University of Wales, Aberystwyth, 2000; ongoing CDP including Habitat Assessment (NVC) and flora and fauna identification through IEEM, and
- Dr Ronan Hennessey, PhD Earth and Ocean Sciences, Higher Diploma in Remote Sensing and Geographical Information Systems, BSc Earth Sciences.

2 APPROACH TO STRATEGIC ENVIRONMENTAL ASSESSMENT

2.1 Introduction

This chapter presents the SEA methodology in detail and outlines the steps required for SEA. The methodology used to carry out the SEA of the plan reflects the requirements of the SEA regulations and available guidance on undertaking SEA in Ireland, including:

- SEA Methodologies for Plans and Programmes in Ireland – Synthesis Report Environmental Protection Agency (EPA), 2003;
- Implementation of SEA Directive (2001/42/EC) Assessment of the Effects of Certain Plans and Programmes on the Environment – Guidelines for Regional Authorities and Planning Authorities - published by the Department of the Environment, Heritage and Local Government, 2004;
- Planning and Development (Strategic Environmental Assessment) Regulations 2004 (SI 436 and SI 435 of 2004);
- Planning and Development (Strategic Environmental Assessment) Regulations 2011 (S.I. No. 201 of 2011);
- Planning and Development (Environmental Assessment of Certain Plans and Programmes) (S.I No 200 of 2011);
- SEA Process Checklist Consultation Draft 2008, EPA 2008;
- Circular Letter PSSP 6/2011 Further Transposition of EU Directive 2001/42/EC on Strategic Environmental Assessment;
- Guidance on integrating climate change and biodiversity into

- Strategic Environmental Assessment European Union 2013;
- SEA Resource Manual for Local and Regional Authorities, Draft Version, 2013;
- Integrating Climate Change into Strategic Environmental Assessment in Ireland – A Guidance Note, EPA, 2015;
- Developing and assessing alternatives in Strategic Environmental Assessment, EPA, 2015 and
- SEA of Local Authority Land Use Plans - EPA Recommendations and Resources (Version May 2018).

2.2 STAGES IN THE SEA PROCESS

The steps involved in SEA are as follows:

- Screening (determining whether or not SEA is required).
- Scoping (determining the range of environmental issues to be covered by the SEA).
- The preparation of an Environmental Report (current stage)
- The carrying out of consultations.
- The integration of environmental considerations into the Plan or Programme.
- The publication of information on the decision (SEA Statement).

2.2.1 SCREENING

The SEA Regulations state that SEA is mandatory for certain plans while screening for SEA is required for other plans. A Screening assessment was undertaken and it determined the requirement to progress to full SEA. In conjunction with the SEA Screening, a screening under Article 6 (3) of the EU Habitats Directive has also been prepared and should be read in conjunction with the CCAP and this SEA ER.

2.2.2 SCOPING

The purpose of the SEA Scoping report is to identify the scope of the SEA and ensure that relevant data and environmental topics are included in the SEA. The Scoping report was issued to the

and the Plan.

statutory environmental authorities consultees in December 2018 for comment. The table below summarises the main issues raised by consultees and the SEA response to same.

TABLE 2 SCOPING SUBMISSIONS-Scientific Officer, SEA Section Office of Evidence and Assessment. Environmental Protection Agency, Regional Inspectorate, Inniscarra, County Cork We welcome the preparation of the Plan, which Noted sets out a clear set of actions to be taken by South Dublin County Council, in collaboration with other key stakeholders, over the next five years. The inclusion of clear targets will facilitate monitoring and reporting on the Plan implementation, which should in turn help to drive delivery. We recognise the fundamental importance of Noted, the SEA and AA have ensuring that the National Transition Objective helped to inform plan preparation is underpinned by a clean, healthy and welland please see Chapter 8 protected environment. Considering this, it is Mitigation in particular important to develop and implement the Plan within the context of a wider and more integrated approach to environmental protection. The SEA should play a key role in ensuring that this is achieved and should inform decision-making around assessment and selection of actions and measures. The SEA should also assist in identifying ways to Noted, in particular certain actions maximise the potential co-benefits of climatein each theme already provide corelated measures for air quality, human health, benefits and the SEA has provided biodiversity, water quality and other additional mitigation to further enhance certain actions please interrelated areas (i.e. win-win solutions). see CCAP and Chapter 8 Mitigation of this SEA ER A key role of SEA is in assessing and informing the selection and refinement of actions and measures that maximise the co-benefits of climate actions for the wider environment and society, should be highlighted in the SEA Report

Relevant Plans and Programmes

You should ensure that the Plan aligns with national commitments on climate change mitigation and adaptation. Actions and measures proposed should be consistent with the National Policy Position on Climate Action and Low Carbon Development, the National Mitigation Plan and the National Adaptation Framework, as well as considering any relevant sectoral and regional adaption plans.

We recommend including a flow diagram or/ schematic, illustrating where the Plan fits within the hierarchy of land-use, climate and related plans Noted and agreed, in response to this comment the SEA ER included a table that highlights consistency with these plans and programmes and also provides a preliminary schematic to illustrate the hierarchy of plans and programmes.

Please see Chapter 3.

It would be useful to explain the relevance of the various plans listed in section 2 of the SEA Scoping Report to the CCAP, for example by way of an additional column. Reference to the Draft Regional Spatial Economic Strategy, currently at consultation, should be included. Noted and agreed. Chapter 3 has been amended to provide this and a more detailed overview of key relevant plans and programmes is provided in Annex B of this SEA ER.

Greenhouse Gas Emissions

In preparing the Plan and SEA, the direct and indirect impacts of the Plan on greenhouse gas emissions and removals should be assessed. The Agency's most recent projections report Ireland's Greenhouse Gas Emissions Projections for 2017-2035 (EPA, 2018) should be taken into account.

Noted.

With support from the Sustainable Energy Authority of Ireland (SEAI), Codema developed an energy and emissions baseline, which shows the current level of emissions and energy efficiency for both SDCC's own operations and emissions for the whole of South Dublin. Consideration of significant effects in Chapter Seven of this SEA ER discusses this point.

The National Mitigation Plan (NMP) identifies 106 actions to decarbonise electricity generation, the built environment and transport and to move towards carbon neutrality for agriculture, forest and land use sectors. The Plan should integrate and align with the relevant actions in the NMP, as appropriate.

Noted, this SEA ER addresses this in Table XX and shows where the South Dublin CCAP actions are consistent with the National Mitigation Plan. Please note that many of the actions in the National Mitigation Plan are identified at central government level rather than local authority.

Adaptation

Codema carried out an adaptation risk assessment on behalf of SDCC,

In preparing the Plan and SEA, you should consider how the impacts of climate change, individually and in combination, are likely to influence the implementation of the Plan.

The Plan should look to improve resilience of existing and planned critical infrastructure, systems and procedures to the effects and variability of climate change. Recent extreme weather events could be useful to assist in identifying areas where for further work is needed to improve resilience, e.g. the resilience of critical water service infrastructure to flooding and drought.

The Plan should include appropriate adaptation measures that can be implemented either directly or through relevant land use plans and/or specific plans e.g. Flood Risk Management Plans, Integrated Coastal Zone Management Plans etc. The Plan will also help inform local authority land use and transport planning within the county.

Additional aspects to consider may include changes in native species and habitats and the spread of invasive species, pests and pathogens.

EPA State of the Environment Report 2016

The EPA published our most recent State of the Environment Report in 2016 'Ireland's Environment – An Assessment (EPA, 2016). The recommendations, key issues and challenges described within this report should be considered, as relevant and appropriate to the Plan area in preparing the Draft CCAP and associated SEA. This report can be consulted at: http://www.epa.ie/irelandsenvironment/stateof theenvironmentreport/

Air quality

We welcome that the Plan will take into account the Draft National Clean Air Strategy (DCCAE), due to be finalised in 2019. Recent EPA reports on air quality should also be considered, in preparing the Plan and SEA. This includes the Air Quality in Ireland 2017 Report (EPA, 2018) which sets out the most recent status in each of

which identifies and assesses the current climate change risks facing South Dublin. Research into people's attitudes and awareness was used in order to inform the stakeholder engagement actions of the plan.

A key principle and stage of the CCAP relates to adaptation and responses to same.

Noted, this is highlighted in Chapter 4 Baseline as a key issue for biodiversity and human health

Noted and utilised in this SEA ER. Please see Chapter 3.

Noted this is used in Chapter 4
Baseline Environment

the four air quality zones in Ireland.

Data on levels of atmospheric pollutants from the EPA's national ambient air quality monitoring network (http://www.epa.ie/air/quality/monitor/), should also integrated as appropriate. The pollutants of most concern are traffic-related, including Particulate Matter and Nitrogen Dioxide

Noise The Plan should take into consideration available noise action plans prepared within and adjacent to the Plan area. Noise action plans are designed to act as a means of managing environmental noise through land use planning, traffic management and control of noise sources. The third round of noise mapping is currently underway in Ireland and will be completed in 2018. http://noise.eionet.europa.eu/help.html.

Noted and included in Chapter Four.

Available Guidance & Resources Climate

The EPA has published guidelines to support Local Authorities in developing local climate adaptation strategies (EPA, 2016). The DCCAE have incorporated this EPA guidance into national level Guidelines, to also assist local authorities prepare adaptation strategies. (DCCAE, 20185).

The 'Climate Ireland' website provides information, support and advice to help local authorities, sectors and government departments to adapt to climate change and includes a Local Authority Adaptation Support Wizard. It can be consulted at http://www.climateireland.ie/#/

Renewable Energy The recently published Interim Guidelines for Planning Authorities on Statutory Plans, Renewable Energy and Climate Change (DHPCLG, 2017) should be taken into account, where relevant.

Water Quality Our WFD Application provides a single point of access to water quality and catchment data from the national WFD

monitoring programme. The Application is accessed through EDEN https://wfd.edenireland.ie/ and is available to public agencies. Publicly available data can be accessed via the Catchments.ie website

SEA Our website contains SEA resources and guidance, including: - SEA process guidance and checklists - list of relevant spatial datasets - topic specific SEA guidance, such as consideration of alternatives in SEA. You can access these resources at: http://www.epa.ie/pubs/advice/ea/

Noted and used where appropriate in this SEA.

Best practice guidance on Integrated Biodiversity Impact Assessment is also available at:

http://www.epa.ie/pubs/reports/research/biodiversity/strivereportno90.html

SEA WebGIS Search and Reporting Tool

The EPA SEA WebGIS Search and Reporting Tool is a GIS based web application that allows users to explore, interrogate and produce an indicative report on key aspects of the environment in specific geographic areas. These reports are indicative and will provide an overview of key aspects of the environment within a specific plan area. This may be used to inform the SEA screening and scoping stages for Plans and Programmes with reference in the first instance to the land use sector, though it is also applicable to other sector plans. It may be accessed via www.edenireland.ie

Considered at SEA Screening stage of this CCAP.

State of the Environment Report – Ireland's Environment 2016 In preparing the Plan and SEA, the recommendations, key issues and challenges described within our State of the Environment Report Ireland's Environment – An Assessment 2016 (EPA, 2016) should be considered, as relevant and appropriate to the Plan.

Opportunities for selecting 'win-win' solutions when developing climate-related measures, to address multiple environmental challenges (air,

Noted, please see Chapter 3 for review of this and how the SEA and CCAP relates to the State of the Environment Report.

Noted, and agreed, where possible the preparation of the CCAP and SEA have sought to prioritize "win-win" actions.

2.3 BASELINE DATA

The baseline data assists in describing the current state of the environment, facilitating the identification, evaluation and subsequent monitoring of the effects of the plan. It helps identify Issues and Threats problems in and around the plan area and in turn these can be quantified (for certain environmental parameters) or qualified. This highlights the environmental issues relevant to each SEA parameter and ensures that the plan implementation does not exacerbate such problems. Conversely this information can also be used to promote good environmental practices and opportunities for environmental enhancement, thereby improving environmental quality where possible.

Baseline data was gathered for all parameters. Other data was gathered from the SEA ER of the South Dublin County Council Development Plan 2016-2022, Irish Water, the EPA, Met Eireann and other sources as appropriate. Project level environmental assessments where available in relation to transport proposals and/or flood risk management proposals were also reviewed. Footnotes throughout the document, particularly in Chapter Four present the reference and source.

The SEA has also used a Geographical Information System (GIS) in the following ways:

- To provide baseline information on a range of environmental parameters;
- To assist in assessment of alternatives;
- To help assess in-combination or cumulative impacts, and

- To provide maps to illustrate environmental parameters in the SEA Environmental Report.
- 2.4 APPROACH TO ASSESSMENT OF SIGNIFICANT ENVIRONMENTAL IMPACTS

The principal component of the SEA involves a broad environmental assessment of the objectives/actions of the CCAP. A methodology that uses the concept of expert judgement, public consultation, GIS and matrices, both to assess the environmental impact and to present the conclusions has been adopted in this SEA.

Key to assessing the above is setting a specific set of environmental objectives for each of the environmental topics. The objectives are provided in Chapter Five and include all aspects of the environment such as Cultural Heritage, Population and Human health, and Biodiversity, Flora and Fauna.

The assessment described within this Environmental Report aims to highlight the potential conflicts, if they are present, between the aims and proposals contained in this South Dublin CCAP with the Strategic Environmental Objectives. Furthermore the assessment examines the potential impact arising from the plan's implementation on sensitive environmental receptors.

The SEA Directive requires that information be focused upon *relevant* aspects of the environmental characteristics of the area likely to be significantly affected by the plan and the likely change, both positive and negative, where applicable.

Chapter Seven provides a discussion, where relevant, on the significance and

type of the identified impact in accordance with current guidelines.

The SEA legislation and guidelines highlight the importance of the integration between the preparation of the CCAP and the SEA and AA processes. The iterative nature of the SEA process is such that the CCAP is informed by environmental considerations throughout the preparation of the CCAP and development of actions as relevant. The Screening Statement in support of Appropriate Assessment Report and Natura Impact Report are separate documents to the Environmental Report both of which accompany this South Dublin CCAP 2019-2024.

2.5 MITIGATION

Section (g) of Schedule 2B of the SEA Regulations requires information on the mitigation measures that will be put in place to minimise/eliminate any significant adverse impacts due to the implementation of the CCAP. Chapter Eight of this SEA ER highlights the mitigation measures that will be put in place to counter identified significant adverse impacts due to the CCAPs implementation.

The CCAP has been prepared having regard to the environmental protection objectives contained within the South Dublin County Council Development Plan 2016-2022. However, some unavoidable residual issues may remain and therefore mitigation measures are required. Chapter Eight details the mitigation measures necessary to prevent, reduce and, as fully as possible, offset any significant adverse impacts on the environment of implementing the CCAP.

2.6 MONITORING

Article 10 of the SEA Directive sets out the requirement that monitoring is to be carried out of the significant environmental effects of the implementation of the CCAP in order to identify at an early stage any unforeseen adverse effects and to be able to undertake appropriate remedial action. Chapter Nine presents the monitoring requirements for the plan, aligned where possible with those of the SEA of the South Dublin County Council Development Plan 2016-2022.

2.7 STRATEGIC FLOOD RISK ASSESSMENT

The Planning System and Flood Risk Management Guidelines (DoEHLG 2009) provide a methodology to incorporate flood risk identification and management into land use strategies. It also requires the alignment and integration of flood risk into the SEA process. The core objectives of the Guidelines are to:

- Avoid inappropriate development in areas at risk of flooding;
- Avoid new developments increasing flood risk elsewhere, including that which may arise from surface water run-off;
- Ensure effective management of residual risks for development permitted in floodplains;
- Avoid unnecessary restriction of national, regional or local economic and social growth;
- Improve the understanding of flood risk among relevant stakeholders;
 and
- Ensure that the requirements of EU and national law in relation to the natural environment and nature conservation are complied with at all stages of flood risk management.

 The Strategic Flood Risk Assessment of the South Dublin CDP 2016-2022 has been used in this SEA ER as well as an

assessment of any flood related actions and proposals. These findings have been integrated into the CCAP and this SEA ER (See Chapters Four and Seven in particular).

2.8 DATA GAPS

Data gaps are present in terms of human health and population at county level.

3 RELATIONSHIP TO RELEVANT PLANS AND PROGRAMMES

3.1 Introduction

Under the SEA Directive, the relationship between the CCAP and other relevant plans and programmes must be taken into account. A review of the relevant plans and programmes has been prepared as part of the SEA ER. The preparation of the CCAP must be considered within the context of a hierarchy of policies, plans and strategies which include international, national, regional and local level policy documents. These documents set the policy framework within which the proposed CCAP will operate.

The South Dublin County Development Plan 2016-2022 (CDP) operates as the primary land use framework for the county and as such, key policies/objectives and environmental protective objectives and policies of the CDP will be applied during CCAP implementation stage.

A list of the key relevant international, national, regional and county policies included in the review are listed below in Sections 3.2 to 3.4. Please see Annex B for a summary of these plans and programmes and their relevance to the CCAP and SEA.

Section 3.5 of this Chapter provides a focused consistency check between Actions in the National Mitigation Plan and key policies of the Eastern Regional and Economic Spatial Strategies that are considered to be particularly relevant to this CCAP¹.

¹ This table was prepared on foot of the EPA Scoping submission which recommended aligning actions in the CCAP with those of the National Mitigation Plan. This opportunity was also used to Finally, Section 3.6 identifies key principles that will inform the SEA process arising from this review.

The plans and programmes of particular relevance to this CCAP are highlighted in the review of plans and programmes which can be found in Annex B of this SEA ER².

3.2 INTERNATIONAL

- UN Convention of Biological Diversity, 1992
- The Convention on Wetlands of International Importance (The Ramsar Convention) 1971 and subsequent amendments
- EU Environmental Action Programme to 2020
- SEA Directive Assessment of the effects of certain plans and programmes on the Environment, (2001/42/EC) 2001
- Environmental Impact Assessment Directive (85/337/EEC) (97/11/EC), 1985 and
 - Environmental Impact Assessment Directive (2014/52/EC)
- EU Biodiversity Strategy to 2020
- EU Directive on the Conservation of Wild Birds, (2009/147/EC) 1979.
 Known as the Birds Directive
- EU Directive on the Conservation of Natural Habitats and of Wild Flora and Fauna, (92/43/EEC), 1992 known as the Habitats Directive
- European Communities (Birds and Natural Habitats) Regulations 2011
- EU Green Infrastructure Strategy
 2013

check consistency with relevant policies/objectives of the Draft Eastern Regional Economic and Spatial Strategy

² Annex B was amended to reflect a recommendation by the EPA at Scoping Stage to provide a means to highlight relevance of plans to the CCAP.

- The Stockholm Convention 2001
- EU Soil Thematic Strategy
- Water Framework Directive
 (2000/60/EC) as amended
- Floods Directive (2007/60/EC)
- The Drinking Water Directive (DWD), (98/83/EC) 1998
- Groundwater Directive, (2006/118/EC) 2006
- EC Bathing Water Quality Directive, (2006/7/EC) 2006
- Paris (Climate Change) Agreement
- Kyoto Protocol
- The Ambient Air Quality and Cleaner Air for Europe (CAFE) Directive
- EU Directive on Waste, (2006/12/EC), 2006
- EU Directive on Waste (2008/98/EC), 2008
- EU Urban Waste Water Treatment Directive (91/271/EEC), 1991
- Directive 2009/28/EC on the promotion of the use of energy from renewable sources
- European Convention on the Protection of the Archaeological Heritage,
- 1992 (The Valletta Convention)
- Convention for the Protection of the Architectural Heritage of Europe, 1985 (Granada Convention)
- The European Landscape Convention 2000
- Convention 2000
- The Aarhus ConventionEnvironmental Liability Directive
- 2004/35/EC

3.2.2 NATIONAL

- National Planning Framework 2018
- National Adaptation Framework 2018
- Water Framework Directive River Basin Management Plans 2018
- National Mitigation Plan
- Sectoral Climate Adaptation Plans 2018
- Local Authority Adaptation
 Strategy Development Guidelines,
 EPA 2016
- Our Sustainable Future A framework for sustainable development in Ireland (2012)
- The National Spatial Strategy 2002
 -2020
- National Landscape Strategy (2015-2025)
- 3rd National Biodiversity Action Plan, 2017-2024
- The Wildlife Acts 1976 to 2012
- National Heritage Plan (2002)- to be replaced by Heritage Ireland 2030 (issues paper out now)
- All-Ireland Pollinator Plan 2015-2020
- European Union (Invasive Alien Species) (Freshwater Crayfish) Regulations 2018
- Irish Water's Capital Investment Programme
- Guidelines for Planning Authorities on Sustainable Residential Development in Urban Areas (Cities, Towns & Villages) (2009)
- Geological Heritage Sites
 Designation (under the Wildlife

 Amendment Act 2000)
- Water Services Act (2007)
- Water Services (Amendment) Act (2012)
- Irish Water Services Strategic Plan SEA and AA (2015)

- Irish Water Capital Investment Programme (2017-2024) including forthcoming planning application for Ringsend WWTP upgrade.
- Waterways Ireland Heritage Plan 2014-2020
- The Planning System and Flood Risk Management Guidelines (and Technical Appendices) for Planning Authorities (DoEHLG, OPW), 2009
- National Climate Change Strategy (2007-2012)
- Review of Ireland's climate change policy and Climate Action and Low Carbon Bill 2013
- Smarter Travel, A Sustainable
 Transport Future, A New Transport
 Policy for Ireland 2009-2020
- Spatial Planning and National Roads Guidelines
- National Transport Strategy for Greater Dublin Area 2016-2023³
- Design Manual for Urban Roads and Streets (DMURS)
- Electric Vehicle Grant Scheme and VRT Relief
- National Monuments Act 1930 with subsequent amendments
- Architectural Heritage Protection -Guidelines for Planning Authorities (2011)
- National Inventory of Architectural Heritage (NIAH)
- Draft Landscape and Landscape Assessment Guidelines, (2000)
- Planning and Development Act 2000 (as amended).
- Planning Policy Statement, 2015
- Green Low Carbon Agriculture
 Environment Scheme (GLAS)
- National Cycle Policy Framework 2009-2020

National Transport Authority's
 Public Transport Act 2016
 Permeability Best Practice Guide

3.2.3 REGIONAL AND COUNTY

- A Strategy towards a Climate Change Action Plan for Dublin 2017
- Eastern and Midland Assembly (Draft) Regional Spatial and Economic Strategy (2018)
- Eastern-Midlands Regional Waste Management Plan 2015
- Greater Dublin Area Transport Strategy 2016-2035
- South Dublin County Council Development Plan 2016-2022
- South Dublin Local Economic and Community Plan 2016
- South Dublin Local Biodiversity Action Plan 2010 2015 (replacement plan in preparation).
- Catchment-Based Flood Risk Management Plans (CFRMP)
- Eastern Catchment Flood Risk Assessment and Management (CFRAM) Study 2011-2016
- Greater Dublin Strategic Drainage Study
- Living with Trees South Dublin County Council's Tree Management Policy 2015-2020

3.4 Summary of Key Actions from the National Mitigation Plan and Policies from the Draft Regional Economic and Spatial Strategies that are relevant to this CCAP.

TABLE 3 CONSISTENCY WITH ACTIONS IN THE NATIONAL MITIGATION PLAN RELEVANT TO THIS CCAP.

	National Mitigation Plan 2017	Climate Change Action Plan 2019-2024
Action 9	Develop proposals to establish regional climate action offices to coordinate Local Authority response to climate action.	Established and has co-ordinated CCAP for each of the Dublin Local authorities
Action 10	Ensure climate considerations are fully addressed in new National Planning Framework.	Indirectly through the Regional Spatial and Economic Strategy once adopted and requirement for Variations to CDP to incorporate the RSES.
Action 30	Housing Assistance Package – Local Authorities signed up to participate and scheme operational.	Yes but awaiting budget Action 11 of the Energy Section Expand housing assistance programme to include tenant energy awareness
Action 31	Warmth & Wellbeing Scheme – 1,500 homes will be upgraded for occupants who qualify for the scheme	Recommended as a Mitigation Measure in this SEA ER as follows: Promote and highlight the Warmth and Wellbeing Scheme in conjunction with HSE
Action 51	Investment in infrastructure and behavioural change interventions to encourage and support a shift to sustainable modes of transport.	Actions 1 to 14 of the Transport section identify a comprehensive range of actions to encourage and support modal shifts
Action 89	Continue to support climate and land based research at national and international levels	The role of the Dublin Metropolitan CARO (which will oversee implementation of the CCAP) is to: • Assist the local authorities within the region in preparing their own Climate Change Action Plan • Develop education and awareness initiatives for the public, schools, NGOs and other agencies engaged in driving the climate change agenda and contributing to the National Dialogue on Climate Action on a local and regional basis • Link with third-level institutions in developing a centre of excellence for specific risks — in the case of the Metropolitan Region this will be for urban climate effects • Liaise and interact with the Dublin energy agency Codema

	National Mitigation Plan 2017	Climate Change Action Plan 2019-2024
105	Analyse the barriers to the diversification of	Existing CDP promotes Farm diversification:
	farm incomes related to supply of materials and residues for renewable energy and adoption of AD.	Proposals for farm diversification that involves the development of sustainable business initiatives that are subsidiary to, and directly linked to the primary use of a property for agriculture will generally be favourably considered County Development Plan 2016-2022

TABLE 4 RELEVANT POLICY OBJECTIVES FROM THE DRAFT REGIONAL SPATIAL AND ECONOMIC STRATEGY EASTERN AND MIDLANDS REGION

Please note the Regional Spatial and Economic Strategy is currently in draft form so the Regional Policies Objectives listed below may be subject to change prior to adoption.

	y Objectives from the Draft Regional Spatial and Econor		
Low Carbon Economy RPO 6.20	Support enterprise development agencies and LEOs on the development of industries that create and employ green technologies and take measures to accelerate the transition towards a low carbon economy and circular economy.	In partnership with Enterprise Ireland, Smart Dublin runs Small Business Innovation Research (SBIR) competitions, which challenge smart technology providers, researchers and citizens to come up with solutions that will improve the operation and resilience of the Dublin Region.	
RPO 7.15:	Local Authorities shall take opportunities to enhance biodiversity and amenities and to ensure the protection of environmentally sensitive sites and habitats, including where flood risk management measures are planned.	nhance Actions 8,9, 10 and 11 under Flood Resilience are consistent with thi RPO and 8: Tree planting for water attenuation	
RPO 7.17	: Facilitate cross boundary co-ordination between Local Authorities and the relevant agencies in the Region to provide clear governance arrangements and coordination mechanisms to support the development of ecological networks and enhanced	Actions including Actions 1,2,3 and 5 in Nature Based Solutions are consistent with this as follows: 1. Establish regional working group to identify areas and priorities for actions 2 Establish a cross- departmental Trees and SUDS Working Group to	

	connectivity between protected sites whilst also addressing the need for management of alien	promote and pilot water- sensitive urban design (WSUD) incorporating
	invasive species and the conservation of native species.	3 Workshop to develop Dublin Risk Assessment for nature and climate change
	Species.	2018 Multi-departmental Workshop conducted, assessment developed
		5 Produce regional floodplain management guidelines - use Santry River as a demonstration
REGIONAL POLICY OBJECTIVES: Green	Local authority Development Plan and Local Area Plans, shall identify, protect, enhance, provide and manage Green Infrastructure in an integrated and coherent manner and should also have regard to the	SDCC County Development Plan 2016-2022 includes a large number of GI policy and objectives such as ET6; G2; G4; HCL8; HCL9; HCL10; HCL17.
Infrastructure RPO 7.21	required targets in relation to the conservation of European sites, other nature conservation sites,	Actions in the Nature Based Solutions theme include a number of Gl actions such as Actions 7,8,9 and 10 for example:
	ecological networks, and protected species.	7 Develop Green Infrastructure Strategy that identifies areas and priorities for green infrastructure and investment
		8 Develop Public Open Space and Parks Strategy that incorporates climate change mitigation and adaptation
RPO 7.22	:Support the further development of Green Infrastructure policies and coordinate the mapping of strategic Green Infrastructure in the Region.	See Action 7 above
Greenways, Blueways and Peatways RPO 7.23:	Promote the development of a sustainable Strategic Greenway Network of national and regional routes, with a number of high capacity flagship routes that can be extended and /or linked with local Greenways and other cycling and walking infrastructure.	See Action 11 in Active Travel under Transport Theme
Climate Change RPO 7.28	Within 1 year of the adoption of the RSES, the EMRA shall seek with other stakeholders to carry out an assessment of transport emissions in the Region to identify GHG forecasting and to analyse the emissions impacts of development in the Region.	This can be supported through the baseline study of Greenhouse Gas Emissions for the local authority undertaken for 2016 by Codema with support from SEAI.

RPO 7.31:	cy Objectives from the Draft Regional Spatial and Econom	
KPU 7.31:	Local Authorities shall develop, adopt and implement local climate action strategies which shall assess local vulnerability to climate risks, quantify the emissions produced within their jurisdictions, and identify, cost and prioritise adaptation actions in accordance with the guiding principles of the National Adaptation Framework	The CCAP is the draft action plan that will meet this objective.
RPO 7.32:	Climate Action Regional Offices shall provide guidelines and support to the Local Authorities on the development, adoption and implementation of local climate action strategies (both mitigation and adaption). These guidelines shall include the specific actions and obligations and timescales for same that must be undertaken by the Local Authorities to comply with national policy.	As above, this Draft Climate Change Action Plan has been prepared by the Dublin energy agency Codema, in partnership with the Environment, Public Realm and Climate Change Policy Committee and the Elected Members of South Dublin County Council. The Draft Action Plan was also prepared having regard to A Strategy towards Climate Change Action Plans for the Dublin Local Authorities, published in 2017.
RPO 7.33:	EMRA supports the National Policy Statement on Bioeconomy (2018) and supports the exploration of opportunities in the circular resource-efficient economy including undertaking a bio-economy feasibility study for the Region to identify the area of potential growth in the Region to inform investment in line with the national transition objective to a low carbon climate resilient economy.	Action 18 in Energy: Assess feasibility of additional low carbon district heating networks: Clonburris and Grange Castle
Building Standards RPO 7.38:	Local Authorities shall report annually on energy usage in all public buildings and will achieve a target of 33% improvement in energy efficiency in all buildings in line with the requirements of the National Energy Efficiency Action Plan (NEEAP).	Stated target of the CCAP is a 33% improvement in council's energy efficiency by 2020. Baseline section of the CCAP provides a bre
RPO 7.39:	Local Authorities shall include policies in statutory land use plans to promote high levels of energy conservation, energy efficiency and the use of renewable energy sources in existing buildings,	

Relevant Policy Objectives from the Draft Regional Spatial and Economic Strategy Eastern and Midlands Region

including retro fitting of energy efficiency measures in the existing building stock and energy efficiency in traditional buildings. All new buildings within the Region will be required to achieve the Nearly ZeroEnergy Buildings (NZEB) standard in line with the Energy Performance of Buildings Directive (EPBD).

RPO 7.40:

Support and promote structural materials in the construction industry that have low to zero embodied energy & CO2 emissions.

Decarbonising Transport

RPO 7.41

Local Authorities shall include proposals in statutory land use plans to facilitate and encourage an increase in electric vehicle use, including measure for more recharging facilities and prioritisation of parking for EVs in central locations.

3.3 KEY PRINCIPLES IDENTIFIED FROM REVIEW.

Following the review of the relationship between the above plans, policies and programmes the following key principles have been identified and this have been considered through the SEA and helped to inform the CCAP development.

Table 5 Principles from plan, policy and programme review.

SEA Topic	Principles/Implications for the CCAP and SEA	EPA State of Irelands Environment 2016 Key Issues	CCAP 2019-2024 Relevant Theme
Biodiversity, Flora and Fauna	 Conserve and enhance biodiversity at all levels Avoid and minimise effects on nationally and internationally rare and threatened species and habitats through sensitive design and consultation, recognising ecological connectivity where possible Facilitate species and habitat adaption to climate change Avoid and minimise habitat fragmentation and seek opportunities to improve habitat connectivity Ensure careful consideration of non-native invasive and alien species issues 	Implementation of legislation Climate change Environment and health and well being Nature and wild places	Nature Based Solutions Citizen Engagement and Awareness Flood Resilience Resource management
Population and Human Health	 Provide for sustainable communities with key services Energy efficiency in buildings and model transport shift A high quality environment to live, work 	Environment and health and well being Implementation of legislation Climate change Community engagement	Energy Transport Nature Based Solutions Resource Management Citizen engagement

SEA Topic	Principles/Implications for the CCAP and SEA	EPA State of Irelands Environment 2016 Key Issues	CCAP 2019-2024 Relevant Theme
	 and play in Avoid pollution and environmental health impacts (noise and air quality) through mitigation and design Awareness raising 	Sustainable economic activities	
Water	 Maintain and improve water quality Avoid and minimise effects on natural processes, particularly natural flood management and catchment processes through sensitive design and consultation Adapt and improve resilience to the effects of climate change Minimise water consumption/ abstractions Design SUDS to facilitate ecological improvement/ enhancement where possible 	Restore and protect water quality Implementation of legislation Climate change Environment and health and well being	Nature Based Solutions Resource Management Citizen engagement and awareness
Soil and Geology	 Conserve soil resources where possible and avoid waste of soil resources Maintain productive capacity and prevent erosion of soils Ensure careful consideration of non-native invasive and alien species issues 	Climate change Environment and health and well being Sustainable economic activities	Resource Management Nature Based Solutions Citizen engagement and awareness
Material Assets	 Avoid and minimise waste generation Maximise re-use of material resources and use of recycled materials Minimise energy consumption and encourage use of renewable energy 	Restore and protect water quality Implementation of legislation Climate change Environment and health and well	Nature Based Solutions Resource Management Citizen engagement and awareness Flood Resilience

SEA Topic	Principles/Implications for the CCAP and SEA	EPA State of Irelands Environment 2016 Key Issues	CCAP 2019-2024 Relevant Theme
	 Promote sustainable transport patterns and modes where possible. Plan and provide for sustainable water management and wastewater treatment Modal shifts and sustainable transport Awareness raising 	being Sustainable economic activities	Energy Transport
Air Quality and Climate	 Adapt and improve resilience to the effects of climate change Encourage reduction in greenhouse gases through transport, energy, built development. Minimise adverse impacts associated with air and noise quality 	Climate change Implementation of legislation Environment and health and well being	Energy Transport Resource Management Nature based solutions Citizen Engagement
Cultural Heritage	 Conserve, preserve and record architectural and archaeological heritage Avoid and minimise effects on historic environment features through sensitive design and consultation 	Environment and health and well being Sustainable economic activities	Nature based solutions Citizen engagement Transport
Landscape	 Integrate green and blue infrastructure considerations Improve landscape connectivity to surrounding areas 	Environment and health and well being Nature and wild places	Nature based solutions Flood resilience Citizen Engagement Resource Management
Climate change and sustainability	 Adapt and improve resilience to the effects of climate change Promote local/ sustainable sourcing of materials 	Environment and health and well being Sustainable economic activities Climate change Implementation of legislation	Nature based solutions Flood resilience Citizen Engagement Resource Management Energy

SEA Topic	Principles/Implications for the CCAP and SEA	EPA State of Irelands Environment 2016 Key Issues	CCAP 2019-2024 Relevant Theme
8045891 59 y 11 24 1 26 1 26 1 2 2 1 2 1 1 1 1 1 1 1 1 1 1	Promote sustainable design and innovation to reduce material consumption		Transport
Inter- relationships	 Maintain and improve the health of people, ecosystems and natural processes Adapt and improve resilience to climate change and extreme weather events Actively seek to integrate opportunities for environmental enhancement 	Environment and health and well being Sustainable economic activities Climate change Implementation of legislation Nature and wild places Restore and protect water quality Community engagement	Nature based solutions Flood resilience Citizen Engagement Resource Management Energy Transport