

# CLIMATE ACTION PLAN 2021

Annex of Actions



Rialtas na hÉireann  
Government of Ireland





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## Glossary of Acronyms

AA	Appropriate Assessment
ACA	Agricultural Consultants Association
AFIR	Alternative Fuels Infrastructure Regulation
AHI	Animal Health Ireland
AR4	IPCC Assessment Report 4
AR5	IPCC Assessment Report 5
BAI	Broadcasting Authority of Ireland
BAU	Business as Usual
BASE Ireland	Biodiversity Agriculture Soil Environment Ireland
BER	Building Energy Rating
CARO	Climate Action Regional Office CAF – Climate Action Fund
CAP	Climate Action Plan
CAP	Common Agricultural Policy
CCF	Continuous Cover Forestry
CSP	Common Agricultural Policy Strategic Plan
CCAC	Climate Change Advisory Council
CCAP	Community Climate Action Programme
CCMA	County and City Management Association
CCS	Carbon Capture and Storage
CCSAP	Climate Change Sectoral Adaptation Plan
CFMCA	Coalition of Finance Ministers for Climate Action
CFRAMS	Catchment Flood Risk Assessment and Management
CIF	Construction Industry Federation
CIL	Commissioners of Irish Lights
CIRI	Construction Industry Register Ireland
CLT	Cross Laminated Timber
CNG	Compressed Natural Gas
CO2	Carbon Dioxide
COFORD	Council for Forest Research and Development
CPD	Continuous Professional Development
CEG	Community Energy Grant
CRU	Commission for the Regulation of Utilities
CSO	Central Statistics Office
CVI	Coastal Vulnerability Index
DAERA	Department of Agriculture, Environment and Rural Affairs
DART	Dublin Area Rapid Transit
DAFM	Department of Agriculture, Food and Marine
DECC	Department of the Environment, Climate and Communications
DEDP's	Destination Experience Development Plans
DCEDIY	Department of Children, Equality, Disability, Integration and Youth
D/Education	Department of Education
DETE	Department of Enterprise Trade and Employment
DFA	Department of Foreign Affairs

## Glossary of Acronyms

DFHERIS	Department of Further and Higher Education, Research, Innovation and Science
DFIN	Department of Finance
DHLGH	Department of Housing Planning and Local Government
D/Transport	Department of Transport
DMAP	Designated Marine Area Plan
DPER	Department of Public Expenditure and Reform
DRCD	Department of Rural and Community Development
DRS	Deposit Return Scheme
DSM	Dutch State Mines
DSP	Department of Social Protection
DS3	Delivering a Secure Sustainable Electricity System
D/Taoiseach	Department of the Taoiseach
DTCAGSM	Department of Tourism, Culture, Arts, Gaeltacht, Sport and Media
EC	European Commission
EDDR	Enhanced Decommissioning, Rehabilitation and Restoration
EEOS	Energy Efficiency Obligation Scheme
EGFSN	Expert Group on Future Skills Needs
EI	Enterprise Ireland
EIB	European Investment Bank
EIP	European Innovation Partnership
eNGO	Environmental Non-Governmental Organisation
EPA	Environmental Protection Agency
EPC	Energy Performance Contracting
EPV	Extra Personal Vacation
ESB	Electricity Supply Board
ESBN	Electricity Supply Board Networks
ESD	Education for Sustainable Development
ESRI	Economic, Social Research Institute
ETB	Education and Training Board
ETS	Emissions Trading System
EU DG	European Union Directorates General
EU	European Union
EU LIFE	L'Instrument Financier pour l'Environnement
EU TEN-E	Trans-European Energy Networks
EV	Electric Vehicle
EVPP	Electric Vehicle Policy Pathway
EXEED	Excellence in Energy Efficient Design
FFP	Fresh Food Producers
GAA	Gaelic Athletic Association
GDP	Gross Domestic Product
GHG	Greenhouse Gas
GNI	Gas Networks Ireland
GRA	Global Research Alliance
GSI	Geological Survey Ireland
GTF	Government Task force
GW	Gigawatt
GWP	Global Warming Potential

## Glossary of Acronyms

Ha	Hectare
HEA	Higher Education Authority
HEI	Higher Education Institutions
HGV	Heavy Goods Vehicle
HES	Health Service Executive
HLI	Heat Loss Indicator
IAA	Irish Aviation Authority
IBR	Infectious Bovine Rhinotracheitis
ICA	Irish Countrywomen's Association
ICE	Internal Combustion Engine
IBEC	Irish Business and Employers Confederation
ICBF	Irish Cattle Breeding Federation
IDA	Industrial Development Agency
IFA	Irish Farmers Association
IFS	International Financial Services
IGBC	Irish Green Building Council
IT	Information Technology
IDWG	Interdepartmental Working Group
IPCC	Intergovernmental Panel on Climate Change
IPCSS	Irish Coastal Protection Strategy Study
ISIF	Irish Strategic Investment Fund
ITGA	Irish Timber Growers Association
JD	Johnes Disease
JTF	Just Transition Fund
KPI	Key Point Indicator
kW	Kilowatt
LA	Local Authority
LARES	Local Authority Renewable Energy Strategies
LDA	Land Development Agency
LED	Light Emitting Diode
LEUs	Large Energy Users
LEV	Low Emitting Vehicles
LECP	Local Economic and Community Plan
LEEF	Labour Employer Economic Forum
LEO	Local Enterprise Office
LPG	Liquified Petroleum Gas
LULUCF	Land Use, Land Use Change and Forestry
LSP	Local Sports Partnership
MAB	Man and the Biosphere Programme
MAP	Maritime Area Planning Bill
MDB	Multilateral Development Bank
MI	Marine Institute
MPA	Marine Protected Area
M&R	Monitoring and Reporting
MRTT	Midlands Regional Transition Team
MR&I	Marine Research & Innovation Strategy
MREP	Midlands Regional Enterprise Plan

## Glossary of Acronyms

MSO	Marine Survey Office
MSP	Marine Spatial Planning
MSS	Microgeneration Support Scheme
Mt CO <sub>2</sub> eq.	Million Tonnes of carbon dioxide equivalent
MARA	Marine Area Regulatory Authority
MW	Megawatt
N <sub>2</sub> O EF	Nitrous Oxide Emission Factors
NAIDEA	National Artificial Intelligent Dairy Energy Application
NAF	National Adaptation Framework
NASCO	North Atlantic Salmon Conservation Organization
NbCMS	Nature-based Catchment Management Solutions
NBDC	National Biodiversity Data Centre
NBP	National Broadband Plan
NCCAAP	National Council for Curriculum Assessment Action Plan
NCSE	National Council for Special Education
NDCA	National Dialogue on Climate Action
NDFA	National Development Finance Agency
NDP	National Development Plan
NESC	National Economic and Social Council
NewERA	New Economy and Recovery Authority
NGB	National Governing Body
NGO	Non-Governmental Organisation
NIE	Northern Ireland Executive
NMP	Nutrient Management Planning
NMPF	National Marine Planning Framework
NORA	National Oil Reserves Agency
NPF	National Planning Framework
NPWS	National Parks and Wildlife Service
NRRP	National Recovery and Resilience Plan
NSCSF	National Climate Stakeholder Forum
NSAI	National Standards Authority of Ireland
NTA	National Transport Authority
NTMA	National Treasury Management Agency
NUIG	National University of Ireland Galway
NWP	Numerical Weather Prediction
NZEB	Nearly Zero Energy Building
OECD	Organisation for Economic Co-operation and Development
OEP	Office of Emergency Planning
OLEV	Office for Low Emissions Vehicles
OPC	Office of the Parliamentary Counsel
OPW	Office of Public Works
OPR	Office of the Planning Regulator
ORE	Offshore Renewable Energy
ORESS	Offshore Wind under the Renewable Electricity Support Scheme
OREDPA II	Offshore Renewable Energy Development Plan
OSI	Ordinance Survey Ireland
OSS	One-Stop-Shop

## Glossary of Acronyms

PEF	Primary Energy Factor
PHEV	Plugin Hybrid Electric Vehicle
PV	Photo Voltaic
PSO	Public Service Obligation
PPN's	Public Participation Network
QQI	Quality and Qualifications Ireland
RBMP	River Basin Management Plan
RD&D	Research Development and Deployment
RED	Renewable Energy Directive
RESS	Renewable Electricity Support Scheme
REPS-2	Rural Environmental Protection Scheme 2
RRDF	Rural Regeneration and Development Fund
SAC	Special Area of Conservation
SAR	Search and Rescue
SBCI	Strategic Banking Corporation of Ireland
SBLAS	Sustainable Beef and Lamb Assurance Scheme
SCC	Somatic Cell Count
SDGs	Sustainable Development Goals
SDAS	Sustainable Dairy Assurance Scheme
SEAS	Sustainable Egg Assurance Scheme
SEAI	Sustainable Energy Authority of Ireland
SECs	Sustainable Energy Communities
SICAP	Social Inclusion and Community Activation Programme
SEA	Strategic Environmental Assessment
SeQUEsTER project	Scenarios Quantifying Land Use & Emissions Transitions Towards Equilibrium with Removals
SFI	Science Foundation Ireland
SIM	Straw Incorporation Measure
SME	Small and Medium Enterprise
SOLAS	An tSeirbhís Oideachais Leanúnaigh agus Scileanna, 'Further Education and Skills Service'
SONI	System Operator for Northern Ireland
SPC	Strategic Policy Committees
SRR	Strategic Rail Review
SSC	Small-Scale Generation
SSRH	Support Scheme for Renewable Heat
SUP	Single Use Plastics
TCO	Total Cost of Ownership
TII	Transport Infrastructure Ireland
TSG	Tax Strategy Group
TWh	Terawatt-hour
UCD	University College Dublin
UL	University of Limerick
UNCLOS	United Nations Convention on the Law of the Sea
UNECE	United Nations Economic Commission for Europe
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNFCCC	United Nations Framework Convention on Climate Change
URDF	Urban Regeneration and Development Fund



## Glossary of Acronyms

USDA	United States Department of Agriculture
YCA	Youth Climate Assembly
YRE	Young Reporters for the Environment
WSI	Wetlands Surveys Ireland

## Where We Stand

Action	1	Finalise Ireland's long-term climate strategy		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action	Strategy	Q1 2022	DECC	Government Departments

## Policy to Date and Expected Impact of Planned Policies

Action	2	Conduct a review of greenhouse gas emissions on a consumption basis, with a goal of ensuring that Irish and EU action to reduce emissions supports emission reductions globally, as well as on our own territories			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Review	Q2 2023	DECC	EPA

## Governance of the Challenge

Action	3	Streamline the reporting process to distinguish to between key actions that deliver significant emissions abatement, and supporting actions, to allow for greater transparency on progress towards decarbonisation		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action	Streamlined Annex	Q1 2022	DECC	D/Taoiseach, All Departments
Review approach to annual update of Climate Action Plan and reporting arrangements and propose improvements, where appropriate	Improvements identified	Q2 2022	DECC	D/Taoiseach, All Climate Action Units of Government Departments
Hold quarterly meetings of the Climate Action Delivery Board	Meetings held	Quarterly	D/Taoiseach	DECC
Publish progress report each quarter	Report	Quarterly	D/Taoiseach	All Government Departments

Action	4	Activate a process, incorporated in Cabinet procedures, to ensure that all Government memoranda and major investment decisions are subject to a climate mitigation and adaptation evaluation		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Enhance Cabinet procedures to ensure that all Government Memoranda are considered against their carbon impact and mitigation potential	Guidance issued and training events held with Departments	Q1 2022	D/Taoiseach	DECC
Identify and put in place appropriate support to assist Departments on the inclusion of climate impact in Memoranda	Supports in place	Q2 2022	DECC	D/Taoiseach



Action	5	Undertake a capacity review across all departments to ensure that both the people and systems are configured to deliver on climate action			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish Climate Action Unit network and scope governance work programme		Network and work programme established	Q1 2022	D/Taoiseach	All Climate Action Units of Government Departments
As per headline action		Review	Q1 2022	All Departments	
Convene an Interdepartmental Working Group to explore the skills deficit and existing climate change expertise and training		Interdepartmental Working Group set up and work programme agreed	Q2 2022	DECC	DPER, D/Taoiseach, EPA
Host events to facilitate collaboration and peer learning across all Units		Events held	Q3 2022	D/Taoiseach	DECC, All Climate Action Units of Government Departments
Engage with appropriate Departments and Agencies to prepare gap analysis in climate training across civil service		Gap analysis	Q3 2022	DECC	DPER, DFHERIS, CCMA, DHLGH
Procure Training Provider(s) for design and delivery of new civil service training courses		Contract signed with new Provider(s)	Q3 2022	DPER	DECC, OGP
Develop and roll out new civil service training courses		Training courses established	Q3 2023	DPER	DECC

Action	6	Complete the statutory process for the legal adoption of economy-wide carbon budgets and sectoral ceilings			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Propose initial multi-annual carbon budget programme for 2021-2035		Advice to Minister	Q4 2021	Climate Change Advisory Council	DECC
Finalise Carbon Budgets and sectoral ceilings		Carbon Budgets and sectoral ceilings finalised	Q2 2022	DECC	

Action	7	Prepare Climate Action Plan 2022 to fully reflect the legally adopted carbon budgets and sectoral ceilings			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		CAP 2022	Q4 2022	DECC	

Action	8	Consult on how individual sectors could bear any compliance costs for the State arising from failure to reach sectoral targets			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop a consultation paper on potential methodologies for apportioning any cost of compliance across Government Departments		A consultation paper will be developed for Government Departments and Agencies to consider	Q2 2022	DPER	

Action	9	Identify common challenges to climate action implementation within the Civil Service and develop a proposal to address any challenges identified			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Conduct a review across the civil service to establish common challenges to climate action implementation		Review completed	Q2 2022	D/Taoiseach	DPER, DECC
Develop options to enhance delivery and tackle key implementation challenges		Options developed	Q3 2022	D/Taoiseach	DPER, DECC

## Ensuring a Just Transition to a Climate Neutral Ireland

Action	10	Establish a Just Transition Commission		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Approval of policy approach on establishment of Just Transition Commission	Government Decision	Q2 2022	DECC	
Approval of General Scheme of legislation to establish Just Transition Commission	Government Decision	Q4 2022	DECC	

Action	11	Integrate just transition considerations into sectoral policy development through the Climate Action Plan		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Integrate just transition considerations into sectoral policy development through the annual Climate Action Plan	Just transition considerations reflected as appropriate in annual Climate Action Plan, National Dialogue on Climate Action, and relevant sectoral policy statements	Every Q4	DECC	All relevant Government Departments



## Ensuring a Just Transition to a Climate Neutral Ireland

Action	12	Support the provision of strategic advice and research on just transition in Ireland, including future priorities and spatial and sectoral impacts		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Undertake research to explore place-based opportunities for policy and practice in transition through rural case studies	Publication of Research Report	Q1 2022	NESC	DECC, UCD
Explore rural resilience and a just transition	Council Report on Shared Island Research (Climate and Biodiversity Challenges and Opportunities)	Q1 2022	NESC, D/Taoiseach	
Establish a Just Transition Working Group to coordinate the provision of strategic advice and research to the proposed Just Transition Commission	Working Group established	Q2 2022	DECC	
Develop a suite of suitable indicators, for endorsement by Just Transition Commission and adoption by Government, to monitor progress in delivering a just climate transition	Indicators adopted by Government	Q3 2023	Just Transition Working Group	

## Ensuring a Just Transition to a Climate Neutral Ireland

Action	13	Deliver the Programme for Government commitment to develop a Green Further Education and Skills Development Plan			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Launch of the SOLAS Green Skills Action programme	Q1 2022	SOLAS	DFHERIS
Education and training opportunities offered under the SOLAS Green Skills Action Programme		4,550 places provided, plus 60,000 modules made available to learners	Q4 2022	SOLAS	DFHERIS, Regional Skills Fora, ETB's

Action	14	Promote the implementation of the study "Skills for Zero Carbon - The Demand for Renewable Energy, Residential Retrofit and Electric Vehicle Deployment Skills to 2030"			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
EGFSN to disseminate findings and explore with stakeholders how to advance these recommendations with a view to delivering on identified skills needs		Dissemination of findings to wider stakeholders	Q4 2021	DETE	EGFSN

## Ensuring a Just Transition to a Climate Neutral Ireland

Action	15	Include climate action and just transition as themes for stakeholder consultation as part of the refresh of the nine Regional Enterprise Plans			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Include transition to a low carbon economy as one of the key themes in each of the nine regions' consultation process for drafting the Regional Enterprise Plans to 2024, ensuring just transition principles are considered		Finalisation of Regional Enterprise Plans to 2024	Q4 2021	DETE	Regional Enterprise Steering Committees and wider regional stakeholders

Action	16	Promote timely and tailored activation and training responses for workers whose jobs are at risk by the decarbonisation process			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Encourage early engagement from employers where business decisions regarding decarbonisation may result in job losses through the promotion of DSP services in conjunction with the Education & Training Boards		Tailored activation and training support in place	Q4 2022 and ongoing	DSP	Relevant Employers, ETB's
Engage with jobseekers through Intreo Activation services to make them aware of the option for retraining and reskilling through a work placement scheme. Encourage employers to avail of new scheme through local and national employer engagement channels		Mentoring of participants by host organisations in new employment sector and provision of sectoral training. Additional training modules by ETBs	Q4 2023	DSP	

## Ensuring a Just Transition to a Climate Neutral Ireland

Action	17	Create additional community workplaces and supported workplaces in green sectors for people who are economically inactive, long-term unemployed, and/or with severe needs			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Provide additional places on State Employment Schemes to provide employment opportunities for those from disadvantaged and marginalised backgrounds and other persons facing barriers to work		Provide an additional 3,000 State Employment Scheme opportunities	Q4 2022	DSP	

Action	18	In line with the Programme for Government, ensure that targeted social welfare measures are put in place to prevent fuel poverty and support a just transition			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continue currently available welfare supports i.e., Household Benefit Package and Fuel Allowance, electricity and gas allowance under the Household Benefit Scheme, the Supplementary Welfare Allowance to financially support disadvantaged groups		Social welfare supports to prevent fuel poverty	Every Q4	DSP	
Channel carbon tax revenues to appropriate social welfare schemes		Report on application of carbon tax revenues	Q4 2023	DSP	



## A Just Transition Implementation Plan for the Midlands Region

Action	19	Support the work of the Just Transition Commissioner in the Midlands region for the successful implementation of just transition measures			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Provide support to the work of Just Transition Commissioner		Final report of the Just Transition Commissioner	Q4 2021	DECC	Just Transition Commissioner, MRTT

Action	20	Develop and coordinate regional and local strategic partnerships in the Midlands region to address the specific challenges posed by the transition to a low-carbon economy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Coordinate Local Authorities, State Agencies, and other relevant stakeholders in the Midlands region to ensure an integrated approach		Regional stakeholders provide integrated approach	Q4 2022	MRTT	DECC, Local Authorities
Represent the wider Midlands region in the EU Just Transition Platform		Region represented in the EU Just Transition Platform	Q4 2022	MRTT	DECC
Develop Local Authority Climate Action Plans in the relevant counties in line with statutory timeframe provided by Climate Action and Low Carbon Development (Amendment) Act 2021		Local Climate Action Plans developed	Q4 2022	Local Authorities	DECC, Regional Assemblies, CAROs
Support the development of Community Energy Master Plans		30 Midlands Community Energy Master Plans	Q4 2024	SEAI	

## A Just Transition Implementation Plan for the Midlands Region

Action	21	Deliver the NPWS/DHLGH Peatlands Restoration Programme for the raised bog habitat within the Special Area of Conservation and Natural Heritage Area networks			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implement restoration plans		NPWS/DHLGH restoration programme 2021 - 2025 delivered	Every Q4	DHLGH	DECC, landowners, local communities

Action	22	Deliver the EU LIFE Peatlands and People Project			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Deliver the EU LIFE Peatlands and People project by 2027		EU LIFE Peatlands and People project delivered	Every Q4	Bord na Mona	NPWS/DHLGH, DAFM, EPA, NUIG, ERINN Innovation Ltd.

Action	23	Deliver the European Innovation Partnership projects in the Midlands			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implementation of Wetlands Surveys Ireland – Midlands.		Delivery of WSI project	Q4 2023	DAFM	Local landowners, local farmers
Implementation of Green Restoration Ireland project		Delivery of GRI project	Q4 2023	DAFM	Local landowners, local farmers
Implementation of Danú Farming Group project		Delivery of Danú Farming Group project	Q4 2023	DAFM	Local landowners, local farmers

## A Just Transition Implementation Plan for the Midlands Region

Action	24	Support feasibility studies on biomass and anaerobic digestion in Midlands region through the Just Transition Fund		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Deliver biomass and anaerobic digestion feasibility studies in the Midlands with support through the Just Transition Fund	Feasibility studies completed	Q2 2024	JTF Grantees	DECC, Local Authorities

Action	25	Investigate and evaluate potential geological resources in the Midlands to provide supporting information for just transition and climate mitigation planning		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Evaluate the potential for communities and local economies to use groundwater, geothermal energy, sand and gravel deposits and mineral resources	Feasibility reports completed	Q4 2022	GSI	DECC, BnM, Local Authorities, SEAI

## A Just Transition Implementation Plan for the Midlands Region

Action	26	Support delivery of projects under the Just Transition Fund			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Issue funding agreements to successful projects and finalise arrangements for delegated management of the Fund	Funding and administrative agreements in place	Q1 2022	DECC	Grantees, Offaly County Council	
MRTT Working Groups to provide assistance to Grantees for project implementation	Grantees assisted with projects	Every Q4	MRTT	Grantees	
Undertake evaluation of the Just Transition Fund to inform potential future requirements	JTF evaluation completed	Q4 2023	DECC	Offaly County Council, MRTT, Grantees	

Action	27	Develop the EU Just Transition Fund with a focus on the most impacted territories in the Midlands region			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Prepare the Territorial Just Transition Plan and Operational Programme and submit to European Commission for approval		Plan submitted to European Commission	Q2 2022	DECC	DPER, European Commission, Regional Assemblies



## A Just Transition Implementation Plan for the Midlands Region

Action	28	Support enterprise development in the Midlands region, centred on the role of the new Regional Enterprise Plans to 2024		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Prepare and launch Midlands Regional Enterprise Plan to 2024	New plan launched	Q4 2021	Midlands Regional Enterprise Plan Steering Committee	Regional stakeholders
Improve access for industry to business sites through National Just Transition Fund projects	New Enterprise Parks established/existing parks expanded	Q2 2024	JTF Grantees	Local Authorities, IDA, MRTT
Develop a digital marketing Destination Midlands Strategy, supported by the Just Transition Fund	Destination Midlands Strategy completed	Q1 2024	Laois County Council	Longford, Westmeath, Offaly Local Authorities, MREP Steering Committee

## A Just Transition Implementation Plan for the Midlands Region

Action	29	Enhance delivery of further and higher education in the Midlands region to equip people for future employment opportunities in green growth sectors		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Education and Training Boards to offer deep retrofit training provision and renewable energy courses	Training completed	Q4 2022	ETBs	Affected employees, learners, BnM
Education and Training Boards to provide Bog Rewetting Programme Traineeship and the Sustainable Agriculture Traineeship	Training completed	Q4 2022	ETBs	Affected employees, learners, BnM
Education and Training Boards will undertake skills audits	Skills audits undertaken	Q4 2022	ETBs	Affected employees, learners, BnM

Action	30	Develop and expand enterprise hubs and remote working hub infrastructure in the region		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Deliver remote working and enterprise hub projects with support through the Just Transition Fund	Remote working and enterprise hubs completed	Q2 2024	JTF Grantees	DECC, Local Authorities, MRTT

## A Just Transition Implementation Plan for the Midlands Region

Action	31	Examine opportunities to further develop tourism, outdoor and recreation amenities/facilities for the Midlands region			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Examine ways in which to develop tourism in the Midlands through reviewing areas such as a network of trails, green positioning, and peatlands heritage		Feasibility / options assessment completed	Q4 2021	Failte Ireland	Bord na Mona
Deliver tourism, outdoor and recreation projects with support through the Just Transition Fund		Tourism and outdoor recreation projects completed	Q2 2024	JTF Grantees	DECC, Local Authorities, Failte Ireland, MRTT

Action	32	Develop the potential for renewable energy hubs in the Midlands through existing and planned investments by State Owned Entities and support from the Just Transition Fund			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Deliver research and integration projects exploring options for development of renewable energy hubs in Midlands Region		Research and integration projects completed	Q2 2024	JTF Grantees	DECC, Local Authorities, MRTT

Action	33	Deliver the Enhanced Decommissioning, Rehabilitation and Restoration (EDRR) Scheme for Bord Na Móna peatlands			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Restore 33,000 hectares of peatlands across 81 bogs owned by Bord na Móna that have been industrially extracted for energy production		EDRR Scheme delivered by 2026, annual reports for the duration of the Scheme	Every Q 4	Bord na Móna	DECC, EPA, NPWS/DHLGH

## Citizen Engagement

Action	34	Advance coordinated climate action communications from the centre of Government		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Maintenance and update of gov.ie/climate action	Communications	Quarterly	D/Taoiseach	
Establish Civil Service wide climate change communications structure, with dedicated support from Government Information Services (GIS)	Structure in place	Q1 2022	D/Taoiseach	DECC, All Departments
Develop a climate communications strategy	Strategy	Q2 2022	D/Taoiseach	All Departments
Commence roll-out of centralised communications through GIS	Communications	Q3 2022	D/Taoiseach	All Departments

Action	35	Provide support for the development of relevant media content, including in the independent production sector		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Collate and synthesise findings from research and engagement activities to establish an evidence base to inform communications	Short report on research findings, core policy and communications priorities	Q3 2022	DECC	EPA

## Citizen Engagement

Action	36	Build Climate Literacy through primary and secondary curriculum			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Commence roll out of actions set out in the 'Educational Sustainable Development (ESD) to 2030' implementation plan		Actions from implementation plan are rolled out	Q2 2022	D/Education, DFHERIS	HEA, HEIs, Schools, Youth, Local Authorities, Civil Society organisations
Develop communications strategy to mark, celebrate and communicate climate action in our schools		Climate action school's communications strategy	Q4 2022	D/Education	

Action	37	Support, through the education system, the required initiatives to support the development of a climate neutral economy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Ensure all learners acquire knowledge and skills needed to promote sustainable development, including among others through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship, and appreciation of cultural diversity and of culture’s contribution to sustainable development		Publish a second National Strategy for Education for Sustainable Development (ESD) to 2030 and accompanying implementation plan	Q1 2022	D/Education /DFHERIS	DFHERIS, HEA, HEIs, Schools, Youth, Local Authorities, Civil Society organisations
		Issue a quarterly ESD Newsletter to Stakeholders	Quarterly	D/Education	D/Education

Action	38	Deliver the National Climate Change Action and Awareness Programme to support the international Foundation for Environmental Education programmes through Green-Schools, Green-Campus and Young Reporters for the Environment			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Organise Climate Action Week as an opportunity to support actions and communications across Green-Schools, Green-Campus and Young Reporter for the Environment (YRE)		Climate Action Week events	Q4 2021	An Taisce	DECC
Fund and support the Climate Ambassador Programme by providing Training, Network Events, Public Outreach, Podcast, and Climate Ambassador Awards		Climate Ambassadors trained, events held, public outreach materials, and awards ceremony	Q3 2022	An Taisce	DECC
Continue to promote the Extra Personal Vacation Online Climate Action Teacher Training course for primary teachers		Teacher Training Course	Q3 2022	An Taisce	DECC
Develop further resources and supports for teachers and schools including a "We want our park back" animated video to support the Junior Primary Storybook		Video and further schools' resources	Q3 2022	An Taisce	DECC
Commence Senior Primary Climate Action Resource and accompanying lesson plans		Lesson plans	Q3 2022	An Taisce	DECC
Identify and promote the connections and benefits which the Green Schools programme brings in terms of measurable and actionable climate action through staff survey, policy		Research on impact of NCCAAP	Q3 2022	An Taisce	DECC

## Citizen Engagement

research, participation in submit.com working group meetings, employing NDCA research				
Continue to expand the Green-Campus network programme increasing the number of those awarded green flag status from 15/39 to 23/39	8 new Green Campuses across the network	Q3 2022	An Taisce	DECC
Expand the Young Reporters for the Environment (YRE) Pilot, focus on SDG's and key climate themes (e.g., water, travel, biodiversity) through additional training, webinars, the Green Campus Programme, and support through an YRE Award	Increased number of YREs	Q3 2022	An Taisce	DECC



Action	39	Support initiatives and activities that deliver practical and innovative solutions to address climate change at local level		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Identify core themes from CAP and other policy priority areas to be examined in NDCA activities including Just Transition, energy, waste, built environment, transport, and agriculture	Core themes identified	Q4 2021	DECC	DCRD, DCEDIY, EPA, LA's, CAROs, PPNs, Comhairle Na Nog
Build the capacity of the Social Inclusion and Community Activation Programme (SICAP) stakeholders at local level to engage with Climate Change agenda	SICAP events relating to climate change	Q4 2021	Pobal	DECC, DRCD
Launch the Community Climate Action Programme – 'Building Low Carbon Communities' and 'Learning by Doing' under the Climate Action Fund	Launch programme via local authorities and Pobal	Q4 2021	DECC	DRDC, LA's CAROs, Pobal,
Complete PPN structural review, including a focus on ensuring PPNs are fit for purpose for climate action	Review and report completed	Q1 2022	DRCD	DECC
Continued support for the development of PPN Community Wellbeing Statements via structured consultation process with PPN members	Community Wellbeing Statements (including environmental component) in place across all 31 PPNs	Q4 2022	DRCD	DECC

Action	40	Build a new national and local citizen engagement model through the National Dialogue on Climate Action			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop and launch an Implementation Plan for the NDCA to define roadmap for national and local citizen and stakeholder engagement		NDCA Implementation Plan	Q4 2021	DECC	EPA, DCEDIY, Local Authorities, D/T
Reconvene and expand Inter-departmental Working Group (IDWG) chaired by the DECC to support implementation of NDCA		Working group, revised ToR, meeting schedule etc	Q4 2021	DECC	DCEDIY, DRCD, D/T, DTCAGSM, EPA, Local Authorities, SEAI
Organise a climate lecture series and a climate conference to bring together policy makers, academics, practitioners, and NGOs to discuss key issues relating to climate action		Climate Conference and two climate lectures	Q4 2021	EPA	DECC
Organise and host a National Climate Stakeholder Forum		Report on outputs from engagements	Q1 2022	DECC	EPA, DRCD, Local Authorities
Organise and host a Youth Climate Assembly		Youth Assembly hosted	Q2 2022	DCEDIY	DECC, Comhairle na nÓg, EPA
Organise and host a National Climate Conversation Event focusing on national and local priorities		Report on outputs from engagements	Q2 2022	DECC	DRCD, EPA, Local Authorities

Action	41	Design and conduct annual Climate Conversations and Public Consultation on the Climate Action Plan			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Consult with stakeholders to ensure content and questions included in the public consultation are consistent with their policies in the current Climate Action Plan		Stakeholder Event	Q1 2022	DECC	IDWG
Design a call for evidence to seek expert views from organisations and citizens to feed into the design of the Climate Action Plan		Call for evidence drafted	Q1 2022	DECC	IDWG
Launch public consultation seeking citizen and expert views to inform the design of policies, measures, and actions as part of the Climate Action Plan		Engagement Activity	Q2 2022	DECC	IDWG
Organise and host Broad Online Conversations		Report on outputs from conversations	Q2 2022	DECC	EPA LA's, CAROs, PPNs, Comhairle Na Nog, DRCD
Facilitate consultation with communities on climate policy through the Public Participation Networks		PPN consultation and development of consultation skills at local level	Q2 2022	DECC	DRCD
Engage with relevant sectors to ensure citizen feedback is incorporated in the Climate Action Plan		Engagement Activity	Q3 2022	DECC	D/Taoiseach, SEAI, EPA
Publish report outlining citizen views and submissions received as part of the Climate Action Plan consultation demonstrating how the consultation shaped the Plan		Published Report	Q4 2022	DECC	EPA

Action	42	Continue to support the delivery of projects approved for funding as part of the first round of support from the Climate Action Fund			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continue to support the delivery of the projects funded through the Creative Climate Action Fund		Reporting on project progress	Q1 2022	DTCAGSM	DECC

Action	43	Support the provision of training and capacity building in relation to climate change to community development and local development organisations			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Determine the scope for supporting the provision of training and capacity building in relation to climate change to, community development and local development organisations including under the Climate Action Fund.		Scope for support determined	Q4 2021	DRCD	DECC

Action	44	Employ the latest research to provide an evidence base to support work of the NDCA, communications and the Inter-departmental Working Group, drive sectoral demand shifts and behavioural change, and provide input into policy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish a National Climate Change Behavioural Insights and Implementation Unit		New Unit established and key staff in place	Q4 2021	EPA	EPA
Establish a National Social and Behavioural Advisory Group on Climate Action		Formal governance structure	Q4 2021	DECC	EPA, SEAI
Organise and host at least 2 meetings per year of the National Social and Behavioural Advisory Group on Climate Action to consolidate key research and identify where they can support delivering on the Climate Action Plan		Synthesis report on key literature/studies in social and behavioural science on climate change	Q4 2022	DECC	EPA, SEAI
Conduct a national baseline study Climate Change in the Irish Mind examining Irish behaviours and attitudes around climate change awareness, engagement, and activation of public		Research Report	Q4 2021	EPA	IDWG, LA's, EPA, SEAI, SFI, ESRI, An Taisce, EU DG Research, Academics
Conduct ad hoc qualitative research studies exploring specific policy priorities		Research reports	Q3 2022	EPA	IDWG, LA's, EPA, SEAI, SFI, ESRI, An Taisce, EU DG Research, Academics
Design a plan of further studies informed by the findings of the Climate Change in the Irish Mind Report and associated outputs		Research reports	Q3 2022	EPA	IDWG, LA's, EPA, SEAI, SFI, ESRI, An Taisce, EU DG Research, Academics

## Citizen Engagement

Capture insights from research studies funded through the Climate Action Fund and Creative Ireland	Collated findings from projects funded under CAF	Q3 2022	DECC	Creative Ireland
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Action	45	Design and implement a robust project management system to monitor NDCA progress		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Collate, and analyse social and behavioural research insights by key themes and sectors including Just Transition, energy, waste, transport, built environment and agriculture	Short report on social and behavioural research insights including key findings by sector	Quarterly	DECC	EPA
Analyse outputs from short reports on Engagement and Research into consolidated report providing insight by sector and an evaluation of the engagement activity to provide evidence base for Government and the next Climate Action Plan	Formal output to CAP and Summary Report on NDCA for Policy Makers / Minister	Q3 2022	DECC	EPA

Action	46	Provide funding to the Broadcasting Authority of Ireland for a round of the Sound and Vision Scheme with the core theme of Climate Change and Climate Action		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Issue a call for a specific round of the Sound and Vision Scheme to support the development of programmes for broadcast media addressing the issue of Climate Change	Sound and Vision Scheme Funded	Q2 2022	DECC	DTCAGSM, BAI
Capture media metrics and indicators relevant to the Sound and Vision round and to inform the delivery of the NDCA and the CAP	Short report on Metrics and Indicators	Q2 2023	DECC	DTCAGSM, BAI

## Citizen Engagement

Action	47	Promote sustainable destination management			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Ensure that the guiding principles for sustainable tourism development are embedded in Fáilte Ireland's Destination Experience Development Plans (DEDPs)		New DEDP's take full account of guiding principles	Q1 2022	Fáilte Ireland	Tourism industry
Develop and promote a sustainability pledge for both inbound and domestic tourists and tour operators to support Ireland's efforts to help preserve the environment and act in a responsible and sustainable manner		Pledge developed and promoted	Q1 2022	Sustainable Tourism Working Group	Tourists, Fáilte Ireland, Tourism Ireland
Evaluate the benefits of introducing a national tourism enterprise sustainability programme along the lines of 'Origin Green'		Evaluation carried out	Q2 2022	Sustainable Tourism Working Group	Tourists, Fáilte Ireland, Tourism Ireland
Organise workshops with local stakeholders including community groups/farmers etc. to maximise the potential of nature-based solutions in local tourism		Workshops held	Q2 2022	Fáilte Ireland	Local tourism stakeholders

Action	48	Further develop and embed a comprehensive well-being framework for Ireland, with a strong focus on sustainability			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish initial Well-being Dashboard		Dashboard published	Q4 2021	D/Taoi seach	CSO
Conduct public conversation to further develop the Well-being Framework		Engagement activity	Q1 2022	D/Taoi seach	
Complete a second follow-on report on the Well-being Framework for Ireland		Report published	Q2 2022	D/Taoi seach	



## Citizen Engagement

Action	49	Progress the establishment of a Citizens' Assembly on Biodiversity			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Conclude and analyse youth engagement on scope of Assembly		Review	Q1 2022	D/Taoi seach	
Scope ToR for Citizens' Assembly incorporating results of consultation		Scope completed	Q3 2022	D/Taoi seach	

## Citizen Engagement

Action	50	Supporting Climate and Biodiversity progress through relevant strategic advice to enhance evidence-based decision-making			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Provide advice on ‘how-to’ progress strategic or challenging projects (which may be identified during the current planning, modelling and bottom-up process)		Publish Strategic Reviews	Q1 2022	NESC	D/Taoiseach

Action	51	Examine national and international sources of funding that could be used to support the transition to a low-carbon economy and society			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Identify relevant sources and provide an assessment of the opportunity for funding at EU level across line Departments		Funding sources identified and assessment undertaken	Q4 2022	DECC	

Action	52	Prioritise the development of supply chain opportunities through appropriately designed and complementary energy and enterprise policies and measures of priority			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review 'sector maps' in the 2014 report 'Ireland's Sustainable Energy Supply Chain Opportunity' with a view to updating if necessary with recent insights on supply chain		Review undertaken	Q2 2023	SEAI	DECC

## Public Sector Leading by Example

Action	53	Develop a strategy to achieve at least a 51% reduction in GHG emissions and a 50% improvement in public sector energy efficiency by 2030			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Communicate measurement and systems to all Public Sector Bodies	Communications roll-out		Q1 2022	DECC	SEAI, D/Taoiseach
Seek Government approval and publish new Public Sector Strategy for delivery	Public Sector Strategy		Q1 2022	DECC	SEAI
Large Public Bodies will prepare comprehensive Climate Action Roadmaps to be coordinated and monitored at Departmental Group level	Climate Action Roadmaps		Q4 2022	SEAI	DECC, SEAI, All Government Departments

Action	54	Expand the successful public sector energy efficiency monitoring and reporting programme to incorporate GHG emissions reduction			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Develop the public sector energy and reporting programme to incorporate greenhouse gas emissions reduction including emissions recording and compliance monitoring	Updated monitoring and reporting system		Q4 2022	SEAI	DECC

## Public Sector Leading By Example

Action	55	Introduce Climate Action Mandate for every public body		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop framework for commercial semi-state sector to address climate action objectives	Framework completed	Q4 2021	DECC	NewERA, DPER
Issue a policy direction or equivalent to all public bodies requiring a public body to adopt mandate and notify Climate Action Delivery Board	Direction and communication	Q4 2021	DECC	SEAI, DPER, D/Taoiseach
Publish School Sector Climate Action Mandate	Mandate published	Q4 2022	D/Education	

Action	56	Strengthen supports to enable Climate and Sustainability Champions to deliver on public sector targets		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Support Climate and Sustainability Champions by requiring public sector bodies to comply with requirements for Display Energy Certificates including getting SEAI to establish an online register of DEC's so compliance can be assessed	Online Register of DEC's Established	Q4 2022	SEAI	DECC

Action	57	Support the retrofit of public sector buildings		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Examine how and when fossil-fuel heating systems could be phased-out of public buildings, including disallowing the installation of any new fossil-fuel heating systems	Identification of recommendations	Q4 2021	OPW	DECC, DHLGH, DPER, SEAI

## Public Sector Leading By Example

Develop the Public Sector Pathfinders capital programme to support the retrofit of public buildings with a focus on greenhouse gas emissions reduction	Expanded Public Sector Pathfinders capital support programme	Q4 2021	SEAI	DECC
Develop an approach to cost-effectively retrofitting the public sector building stock to 2030 based on completed research including establishing the role of energy performance contracting	Approach developed	Q2 2022	DECC	DPER, SEAI, OPW, NTMA

Action	58	Mandate the inclusion of green criteria in all procurements using public funds, introducing requirements on a phased basis, and providing appropriate support to procurers		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Report on Green Public Procurement activity during 2020	Report on Government Green Public Procurement	Q2 2022	EPA	DECC
Up skill programme to enable suppliers to respond to green criteria within public procurement	Training and guidance provided	Q4 2021	EPA	DECC

Action	59	Devise a revised mileage rate structure that reflects changing driving patterns including increased use of EVs and hybrids		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Devise and agree revised mileage rate structure that reflects changing driving patterns including increased use of EVs and Hybrids	Structure devised and agreed with staff side representatives	Q2 2022	DPER	Staff Side representatives

## Public Sector Leading By Example

Action	60	Enhance communications on Climate Agenda in schools' sector with a particular focus on pilot deep energy retrofit projects delivered under Pathfinder Programme in partnership with SEAI		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Individual areas of work/projects identified and showcased in national media	Work showcased in national media	Quarterly	D/Education	DECC, SEAI

Action	61	Set a trajectory for commencing and implementing a deep energy retrofit programme for the higher and further education sectors		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Map the technical and administrative capacity required to design, deliver, and oversee a deep energy retrofit programme for the higher and further education sectors	Report setting out capacity requirements complete	Q1 2022	DFHERIS	ETBs, HEA, HEIs, SOLAS
Progress implementation of the Energy Efficiency and Decarbonisation Pathfinder Programme	Projects selected in 2020 proceed to site. Lesson-sharing process implemented. Pathfinder extended to include new projects	Q3 2022	DFHERIS	HEA, HEIs, SEAI
Establish principles, including with regard to the prioritisation and sequencing of capital investments that will inform the development of individual campus decarbonisation strategies	Principles established in consultation with sector	Q4 2022	DFHERIS	SEAI, HEA, SOLAS, HEIs, ETBs
Complete Phase 1 of schools energy inventory survey	Schools Energy Inventory: Completion of 586 school surveys	Q4 2022	D/Education	
Confirm decarbonisation pathway trajectory to meet 2030 and 2050 targets for the schools sector	Decarbonisation pathway trajectory to meet 2030 and 2050 targets for the schools sector published	Q4 2022	D/Education	
Developing and resourcing a scalable model of energy efficiency retrofits in the school sector to commence in 2023 for energy upgrades of schools built before 2008	Scalable model for energy retrofits in the school sector developed	Q4 2023	D/Education	



Action	62	Establish an appropriately resourced Climate Action Unit in every Government Department to ensure Climate considerations are at the core of policy development			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Units established	Q2 2021	All Departments	

Action	63	Understand the effects of climate change on telecoms networks			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Conduct a study on the impact climate change and adaptation have on telecom networks in Ireland		Report	Q2 2022	ComReg	DECC

Action	64	Understand the potential role that regulators of electronic communications sectors can play in decarbonisation			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Examine the impact of operator and Public Authorities' decisions on the environmental impact of the telecommunications sector		Draft report for consultation	Q1 2021	ComReg	DECC

## Carbon Pricing and Cross-Cutting Policies

Action	65	Continue to work with all Departments to ensure that the central policies adopted in relation to expenditure and taxation are conducive to the achievement of the Government's climate objectives		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop and implement a Blended Working Policy Framework for Civil Service Organisations	Publication of Framework	Q1 2022	DPER	

Action	66	Monitor and review successive carbon tax increases as legislated in the 2020 Finance Act		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action	Tax Strategy Group (TSG) papers, and annual Budget	Every Q3 (TSG Paper) and Q4 (Budget)	DFIN	
The allocation of carbon tax revenues to be included in the Budget	Decisions made on the allocation of carbon tax revenues and paper explaining allocations published	Every Q4 (Budget)	DPER	DECC, DSP, ESRI
Contract the ESRI to undertake research under the Joint Research Programme Paper on sectoral and household impacts of carbon tax trajectory	Working paper published	Q4 2021	DFIN	ESRI

Action	67	Ongoing examination of environmental taxation measures across all relevant tax heads as part of the annual budgetary process		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Consideration of a number of reforms to the taxation system under relevant tax heads from an environmental perspective	Examination of environmental taxation measures	Every Q3 (TSG Paper) and Q4 (Budget)	DFIN	DECC, D/Transport

## Carbon Pricing and Cross-Cutting Policies

Action	68	Continue to reform budgetary process and procedures to provide transparency on the Government's financial commitments to the climate change agenda		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop and publish a methodology to identify expenditures that are having a negative impact on emissions and identify these expenditures through the budgetary process on an ongoing basis	Identification of climate harmful spending and fossil fuel subsidies in budgetary documentation	Q4 2021	DPER	
Refine and apply methodologies to assess impact of Government spending on climate and environmental outcomes in line with international best practice and emerging evidence	Undertake pilot project to apply alternative methodology	Q4 2022	DPER	
Develop a new Performance Budgeting Framework encompassing climate as one of the criteria to be assessed	Implementation of a new Performance Budget Framework	Q3 2023	DPER	

Action	69	Keep the Public Spending Code under ongoing review in line with international best practice to ensure that it includes tools to evaluate the climate and environmental consequences of investments		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Publish a new iteration of the Common Appraisal Framework for Transport Projects and Programmes, reflecting developments in the Public Spending Code and transport since 2016	Updated Appraisal Guidance for Transport Investment	Q2 2022	D/Transport	

## Carbon Pricing and Cross-Cutting Policies

Revise shadow price of carbon in light of enhanced climate ambition in the Climate Act 2021 and informed by updated research on marginal abatement cost of reaching these higher targets	A new shadow price of carbon will be applied to all Government investment appraisal via Circular	Q2 2022	DPER	DECC
Review treatment of environment and climate impacts in infrastructure investment appraisal under Public Spending Code	Publish study that determines whether the climate and environmental treatment of infrastructure emissions is appropriate in the PSC and implement any reforms deemed necessary	Q4 2022	DPER	
Incorporate methodology for assessing climate risk and uncertainty into the Public Spending Code	Published methodology	Q4 2022	DPER	
Review compatibility of Public Spending Code with climate neutrality objective in Climate Act 2021	Publish an assessment on the suitability of existing PSC appraisal methodologies in light of 2050 statutory target	Q4 2023	DPER	

Action	70	Engage to ensure best environmental outcomes in EU negotiations on revisions to Energy Tax Directive and on new Carbon Border Adjustment Mechanism proposal as part of Fit for 55 package		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Bring forward proposals to transpose EU Green Deal-related decisions in a timely manner	Draft legislation, subject to progression of negotiations	Q3 2022	DFIN	DECC
As per headline action	Ireland's contribution to the progression of these tax files	Q4 2022	DFIN	DECC

## Carbon Pricing and Cross-Cutting Policies

Action	71	Examine Green Budgeting practices from a tax perspective			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Undertake analysis and research on Green Budgeting		Publication of paper alongside Budget 2022	Q4 2021	DFIN	

Action	72	Support sustainable State infrastructure projects through the National Development Finance Agency			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Prepare a green procurement plan detailing climate action and sustainability initiatives being undertaken, including appropriate formal environmental assessment, sustainability scoring in tender assessment and the use of digital technologies for design, construction, and operation to facilitate better resource efficiency		Green Procurement Plans for each project	From November 2021 onwards, before procurement commences for each project	NDFA	DFIN, DPER and other relevant Departments/Agencies

Action	73	Use the mandate of the New Economy and Recovery Authority (NewERA) to support the mobilisation of private finance for climate-related investment			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
NewERA will work with the commercial State companies, the Ireland Strategic Investment Fund, the Strategic Banking Corporation of Ireland, and other public bodies to mobilise private investment towards assisting in meeting our climate objectives		6-monthly updates to DFIN to include relevant sustainable finance developments	Every Q1 and Q3	NewERA	DFIN, DPER, DECC
NewERA will monitor implementation by the commercial State companies of the commitments set out in the framework for the sector to address climate action objectives		6-monthly updates to DECC	Q3 2022 and every Q1 and Q3 thereafter	DECC	DECC, DPER, All Shareholding Departments

Action	74	Explore opportunities for financing mitigation in agriculture and food sectors through the Ireland Strategic Investment Fund			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Support the development of a pilot cluster of anaerobic digesters (and subsequently scale up) producing biomethane to decarbonise heat requirements of the dairy processing and drink sector		Pilot cluster established	Q4 2024	DAFM	ISIF

Action	75	Promote the further development of the sustainable finance sector to facilitate increased investment in zero-emission sectors in Ireland		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Implement the Actions set out in Ireland's Sustainable Finance Roadmap so that Ireland becomes a world leader in Sustainable Finance by 2025	Quarterly Progress Reports	Quarterly	DFIN	
Engagement on the sustainable finance agenda at EU and international level, including through the work programme of the Coalition of Finance Ministers for Climate Action	Participation in Member State Expert Group on sustainable finance	Every Q4	DFIN	

Action	76	Consider opportunities for issuance of new Irish Sovereign Green Bonds, and monitor allocation and impact of funds raised through existing Irish Sovereign Green Bonds		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Monitor market developments and consider opportunities for issuance of new Irish Sovereign Green Bonds to complement the State's eligible green projects	Potential further issuance of Irish Sovereign Green Bonds	Ongoing	NTMA	
Produce annual Allocation Report and biennial Impact Report in respect of funds raised through existing Irish Sovereign Green Bonds	Publication of Allocation Report and Impact Report	Q3 2022	Irish Sovereign Green Bonds Working Group	DFIN, DPER, DECC

## Carbon Pricing and Cross-Cutting Policies

Action	77	Promote opportunities for EIB investment in relevant climate projects in Ireland through EIB Financing Ireland			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Oversight of EIB Financing Ireland subgroups, of which climate is a cross cutting theme		Working Group structure to be managed that will provide a mechanism for engagement on EIB financial and advisory support	Every Q4	DFIN	

Action	78	Implement the National Planning Framework			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Deliver National Policy Objectives for compact growth with regard to targets for development within the existing built footprint of settlements, supported by the Project Ireland 2040 funds, and policy measures that integrate land use and transport planning in terms of the spatial patterns, urban forms of development and sustainable mode share and to accelerate transition to a low carbon and climate resilient society		Annual reporting on implementation of National Planning Framework	Every Q4	DHLGH	Whole of Government, Regional Assemblies, Local Authorities



## Carbon Pricing and Cross-Cutting Policies

Provide that LAs consider GHG emissions, in the context of LA Climate Action Plan as part of the City/County Development Plan process	Finalise Section 28 Development Planning Guidelines for Local Authorities, subject to any environmental screening requirements necessary which will also provide that climate adaptation and climate action plans should be taken account of in the preparation of County Development Plans	Q4 2021	DHGLH	
Establish a working group to examine implementation of climate actions in the National Planning Framework	Working Group established	Q4 2021	DHLGH	DECC
Develop state assets database to assist identification of relevant sites to optimise the use of relevant public land	Publication of state assets database	Q4 2021	LDA	Local Authorities
Develop indicators and timelines to achieve NPF targets for residential development on vacant/redevelopment sites to minimise sprawl	National tracking system to monitor on the ground development trends compared to NPF brownfield targets; investment in urban regeneration activities (e.g., URDF/RRDF and LDA)	Q3 2022	DHLGH	OPR
Plan for and progress the regeneration and development of underutilised and centrally located sites to provide compact sustainable development, jobs, amenities, and services	Strategic Areas Framework / Masterplans developed, consulted on, and published	Q4 2022	LDA	DECC, Local Authorities

## Carbon Pricing and Cross-Cutting Policies

Support and promote a modal shift towards healthy active and sustainable mobility in the design and delivery of our developments. Plan to reduce travel by private car and design to optimise connectivity and access to sustainable and active travel. Promote mobility management planning and e-mobility as well as options for car sharing/clubs	LDA Sustainable Design Strategy publication and design approach for key schemes supporting modal shift	Q4 2022	LDA	DECC, Local Authorities
Develop metrics on development pipeline across relevant LDA projects on underutilised sites in the urban centres	Publish progress report	Q4 2022	LDA	DECC, Local Authorities
Implement a strategic approach to town centre regeneration by utilising existing buildings and unused lands for new development and promote residential occupancy in our rural towns and villages using the National Planning Framework as a template	Publish Town Centre First Framework, which will encompass short, medium, and long-term actions	Q4 2021	DHLGH, DRCD	

Action	79	Develop and include a module on climate change into the Guidelines for the development of new Local Economic and Community Plans (LECPs)		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop and publish LECPs guidelines that will include climate action in collaboration with relevant stakeholders	Guidelines published	Q4 2021	DRCD	

Action	80	Support, monitor and assess Local Authority Climate Action		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Conduct a review of Strategic Policy Committees (SPCs) to consider establishment of climate action SPCs in each Local Authority	Stakeholder group to commence review	Q4 2021	DHLGH	
Each Local Authority will identify and develop plans for one “Decarbonising Zone”	31 Local Authority Plans	Q4 2021	DHLGH	
Deliver, and support training and education to Local Authorities with specific programmes relating to planning and climate change	Learning and Development Plan for Local Government Sector	Q3 2022	DHLGH	OPR
Scope out a practical framework assessing the climate action performance of local authorities to be incorporated into statutory guidelines on Local Authority Climate Action Plans	Framework developed including analysis of CO2 per capita emissions by differing spatial development options	Q4 2022	EPA	DECC, DHLGH, CCMA, Local Authorities, CAROs, SEAI, OPR
Incorporate guidelines for implementation of Decarbonising Zones into statutory guidelines on Local Authority Climate Action Plans	Statutory guidelines published	Q4 2022	DECC	DHLGH, CCMA, Local Authority National Climate Action Steering Group, CAROs, SEAI, EPA
Proposed changes to SPCs to be implemented after Local Elections in 2024	Implementation of changes to SPCs commenced	Q4 2024	DHLGH	
Publish Climate Action KPIs for Local authorities	Publish Annual Performance Indicators	Every Q3	NOAC (National Audit and Oversight Commission)	DHLGH, Local Authorities, SEAI

## Carbon Pricing and Cross-Cutting Policies

Action	81	Enhance the energy efficiency of community infrastructure in the Gaeltacht			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Support local communities to include energy efficiency measures in funding applications for new and upgraded community facilities across the Gaeltacht	Update funding conditions and application forms		Q4 2022	DTCAGSM	Local Communities

Action	82	Strengthen our delivery of public funding for basic and applied research to meet climate action objectives			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Implement EPA research strategy to 2030	Publish annual climate research report		Annually in Q2	EPA	DECC, Climate Research Coordination Group (relevant Departments and research funders)
Research potential for Blue Carbon Sequestration	Report on the potential of blue carbon sequestration in marine environment		Q4 2021	MI	DECC, DAFM, EPA
Articulate and support co-ordination and collaboration of climate-related research across relevant Government Departments and Agencies in the next national Research and Innovation Strategy	Publication of the National Research and Innovation Strategy to 2027 and first Work Programme		Q1 2022	DFHERIS	DECC and other climate research funding Government departments and agencies
Pursue a strategic approach to investment in research infrastructure for climate action	Agree a reserve list of climate action research infrastructures that could be funded if additional budget becomes available		Q4 2022	SFI	DFHERIS, DECC, DETE, research funding agencies

## Carbon Pricing and Cross-Cutting Policies

Examine climate research classification and climate research metrics to support delivery of the next National Research & Innovation Strategy	Agree climate research classification to be included in a standardised public research classification system and agree relevant climate research metrics	Q4 2022	EPA	DFHERIS, Climate Research Coordination Group
Deliver Grand Challenge funding in areas relevant to Climate under the new National Grand Challenges Programme	Call launched; teams funded	Q4 2022	DFHERIS	SFI
Explore mechanisms to drive coherence and collaboration across existing and new investments in Climate Research	Inclusion of a climate research stream in Spokes programme for cross centre collaboration	Q2 2023	SFI	DFHERIS, DECC and other relevant Departments
Prioritise public funding for energy, climate action and sustainability, aligned with the refreshed national Research Priority Areas 2018 to 2023	Establishment of strong academic / industrial partnerships. Pursue funding of a new all-island SFI Research Centre and a Centre for Research Training (PhD Programme)	Q4 2023	SFI	DFHERIS and other relevant departments
Publish 5 Year Climate Assessment Report	Report published	Q4 2023	EPA	

Action	83	Support climate and biodiversity progress through relevant strategic advice to enhance evidence-based decision-making		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Provide advice on natural capital (nature) accounting frameworks	NESC Report	Q2 2022	NESC	D/Taoiseach

Action	84	Continue to provide research funding and to coordinate national initiatives for the delivery and continuous improvement of national predictive capability and capacity in the areas of weather, climate, and hydrology		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Initiate the coordination of Ireland's national scientific and technical engagement with the European Commission's DestinE activity in consultation with stakeholders	Kick-off meeting	Q1 2022	DHLGH - Met Éireann	
Initiate the coordination of Ireland's National Framework for Climate Services (NFCS) in consultation with stakeholders	Kick-off meeting	Q1 2022	DHLGH - Met Éireann	
Implement the coordination of Ireland's WMO Integrated Global Observing System (WIGOS) activities	WIGOS Governance Committee established	Q1 2022	DHLGH - Met Éireann	
Continue to provide competitive project funding in support of national predictive capability and capacity in the areas of weather, climate, and hydrology	New Multiannual Research Call for Proposals, individual funding, and research funding partnerships	Q3 2022	DHLGH - Met Éireann	research funding organisations
Contribute to assessing national talent and skills capacity building in support of national predictive capability and capacity in the areas of weather, climate, and hydrology in consultation with stakeholders	Talent and skills capacity gap analysis and action list	Q3 2022	DHLGH - Met Éireann	DFHERIS
Continue to lead Ireland's Global Climate Observing System (GCOS) activities to increase national capability in earth, ocean, and atmosphere observations	GCOS-Ireland Annual Report 2021/2022, co-chair the WMO GCOS Surface Reference Network Task Team (2021-2024)	Q4 2022	DHLGH - Met Éireann	EPA, MI, Teagasc, Academia, WMO

## Carbon Pricing and Cross-Cutting Policies

Maintenance of the National AC3 carbon and atmospheric observation infrastructure at Carnsore, Mace and Oak Park.	Annual report on network observations and trends	Q4 2023	EPA	ME, NUIG
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Action	85	Implement and monitor the National Remote Work Strategy to ensure optimal alignment with climate action objectives		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Raise awareness of the hub facilities and the beneficial network effects of the hub ecosystem to support remote working across Ireland	Dedicated Marketing Campaign	Q4 2021	DRCD	DETE, EI, IDA
Monitor progress of the actions contained in the National Remote Work strategy	Progress reports	Q4 2021	DETE	

Action	86	Apply sector-specific climate appraisal methodology to programmes, schemes and projects funded by DTCAGSM		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Sector-specific climate appraisal methodology finalised	Methodology applied	Q4 2022	DTCAGSM	

Action	87	Create a national Sustainable Tourism Policy		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Undertake public consultation on new national sustainable tourism policy	Public consultation held	Q2 2022	DTCAGSM	Tourism industry, public
Publish new national tourism policy	New policy published	Q2 2023	DTCAGSM	Whole of Government

## Carbon Pricing and Cross-Cutting Policies

Action	88	Improve evidence base for sustainable tourism		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Utilise Destination Experience Development Plans to measure environmental impacts at key tourism destinations	Tourism impact measured via DEPD's	Q4 2021	Fáilte Ireland	Tourism industry
Commence a process to establish a benchmark CO <sub>2</sub> value for Irish Tourism	Identify process to establish benchmark	Q1 2022	Fáilte Ireland	Tourism industry
Develop a mechanism that allows Industry to report on carbon reduction and off-setting measures	Method of reporting developed	Q1 2022	Fáilte Ireland	Tourism industry

Action	89	Minimise negative environmental impact of tourism		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Carry out a feasibility study on the infrastructure required to be able to travel and tour Ireland's experience regions by sustainable modes of transport	Feasibility study carried out	Q4 2021	Fáilte Ireland	Tourism industry, Transport industry
Initiate the development of carbon calculators which will allow tourists and tourism businesses to evaluate the impact of their carbon footprint on the environment	Development commenced	Q1 2022	Fáilte Ireland	Tourism industry, Tourists
Undertake research and analysis to investigate options for tourists within Ireland, to minimise and offset their carbon emissions	Analysis carried out	Q1 2022	Fáilte Ireland	Tourism industry, Tourists



## Carbon Pricing and Cross-Cutting Policies

Action	90	Grow the awareness and understanding of sustainability in tourism			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Incorporate the guiding principles for sustainable tourism development in business support programmes		Support programmes delivered taking account of the guiding principles	Q4 2021	Fáilte Ireland	DTCAGSM
Encourage applications from the tourism sector for the next Sustainable Development Goals Champions Programme		Application from tourism sector submitted for next SDG Champions Programme	Q3 2022	Sustainable Tourism Working Group	DTCAGSM

Action	91	Develop a Major Sports Events Policy and Strategy that includes sustainability as a key part of the assessment of potential events			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Open Major Sports Events Policy up for public consultation		Major Sports Events Policy	Q4 2022	DTCAGSM	Sport Ireland, National Governing Bodies of Sport

Action	92	Support the modification of sports facilities in order to reduce energy consumption		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Development of a new sustainability strategy for the Sport Ireland Campus	Sport Ireland Campus Sustainability Strategy developed	Q2 2022	Sport Ireland	
Development of a new sustainability strategy for the Sport Ireland Campus	Sport Ireland Campus Sustainability Strategy developed	Q2 2022	Sport Ireland	
Embed sustainability in the planning, design, construction, and operation of all new infrastructure projects at the Sport Ireland Campus	Sport Ireland Campus Sustainability Strategy applied to new projects	Q3 2022	Sport Ireland	
Make funding available through the Sports Capital and Equipment Programme to reduce energy consumption in sports facilities	Grants available to upgrade sports facilities	Q4 2022	DTCAGSM	Sports Clubs and Community Groups

Action	93	Support environmentally friendly initiatives through the Action Plan for the Irish Language			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Assess climate parameters to be included in the applications funding under the Action Plan for the Irish Language	Tools to measure climate-related impacts identified for use in grant schemes and programmes		Q4 2022	DTCAGSM	Local Lead Organisations
Ensure that climate-related assessments are integrated into capital and current funding provided under Action Plan for the Irish Language	Climate impact assessment tools used in the evaluation of funding applications under the Community and Language Supports Programme, capital investment in Irish language centres and current funding provided under Action Plan for the Irish Language		Q4 2022	DTCAGSM	Local Lead Organisations

Action	94	Enhance the sustainability of Screen Ireland			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Implement sustainability strategy for Screen Ireland	Screen Ireland operates on a carbon neutral basis		Q4 2025	Screen Ireland	

## Carbon Pricing and Cross-Cutting Policies

Action	95	Facilitate the development of sustainable practices in the wider media sector and the increased production of climate and sustainability related programming		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Consider statutory provision to confer the Media Commission with functions to promote the development of sustainable practices and the production of climate and sustainability related programming	Evaluation carried out	Q4 2022	DTCAGSM	Broadcasting and Media Sector, Broadcasting Authority of Ireland, Media Commission

Action	96	Improve environmental performance of Ireland's Creative and Cultural Sector		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Continue capital funding to support Arts and Culture organisations' efforts to reduce their carbon footprints	New capital funding schemes developed	Q4 2022	DTCAGSM	Local Authorities, Arts Council
Deliver Greening Arts Centres to reduce CO2 emissions in arts centres	7 Arts Venues provided with sustainability and capacity building support to reduce their carbon footprint	Q4 2022	Arts Council	Theatre Forum, Arts Venues
Initiate the development of a Creative Green Programme through a review of current actions and international research and consideration of certification schemes	Review of current actions, international research and assessment of certification schemes completed	Q4 2022	DTCAGSM	Arts Council, Screen Ireland, Theatre Forum, Arts Venues, Creative and Cultural Stakeholders
Review and expand Greening Arts Centres to include more venues nationally	Develop and deliver programme to include more venues nationally	Q3 2023	DTCAGSM	Arts Council, Theatre Forum, Arts Venues

Action	97	Invest in developing our outdoor tourism offering, including outdoor activities, that enhances Ireland's international reputation of being a green, clean, and sustainable destination			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Progress and deliver priority outdoor projects in line with Project Ireland 2040/NDP priorities and Fáilte Ireland's Platforms for Growth programme		New and enhanced outdoor tourism experiences	Q4 2022	Fáilte Ireland	Grantees, Local Authorities
Through targeted Fáilte Ireland schemes and strategic partnerships, leverage State owned assets for the benefit of outdoor amenity, a sustainable tourism offering and the sustainability of the asset itself		Enhanced tourism and amenity offering at State-owned sites and properties	Q4 2030	Fáilte Ireland	Coillte, OPW, Waterways Ireland, NPWS/DHLGH
Develop Ireland's outdoor activity, including on State-owned assets, tourism offering, particularly walking, cycling and water-experiences		World-class outdoor activity tourism offering – including greenways, blueways and walking trails	Q4 2030	Fáilte Ireland	D/RCD, Waterways Ireland, Local Authorities

Action	98	Increase nature connectedness and promote pro-environmental behaviours by developing outdoor recreation			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Raise awareness of responsible outdoor recreation and minimise its impact on nature through the Leave no Trace Programme		Leave No Trace Programme supported and promoted	Every Q4	Sport Ireland	Fáilte Ireland, Waterways Ireland, Government Departments, Local Authorities
Development of a sustainable outdoors events charter		Sustainable outdoors events charter launched	Q4 2022	Fáilte Ireland	Sport Ireland, Comhairle na Tuaithe
Expand and develop new opportunities for people to engage with and participate in sport and active recreation in the outdoors		Interactive map of outdoor sports facilities launched	Q3 2023	Sport Ireland	NGBs, LSPs, Local Authorities

## Electricity

Action	99	Review the policy context for Large Energy Users (including Data Centres), ensuring alignment of enterprise policy and wider regulatory environment with electricity emission targets and security of supply			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish High Level Roadmap on Corporate Power Purchase Agreements		Publish Roadmap	Q1 2022	DECC	SEAI, DETE, DPER, CRU, EirGrid
Review the Government Statement on the role of Data Centres in Enterprise Policy, ensuring alignment with revised renewable electricity targets and sectoral emissions ceilings		Policy Statement review	Q2 2022	DETE	DECC, IDA, LEUs, CRU, EirGrid
Consider further regulatory levers to manage demand from large energy users in the context of emissions, future network needs and evolving national climate and enterprise policies		Regulatory Review	Q3 2022	CRU	IDA, EI, LEUs, DECC, DETE, EirGrid
Facilitate and promote links between LEUs, including data centres, and the renewable energy sector to align with and contribute towards emissions targets and future network needs		Engagement	Q4 2022	IDA	Renewable Energy Ireland, SEAI, DECC, DETE, EirGrid,
Develop an enhanced reporting framework and implementation plan for electricity emissions for LEU's to facilitate reduced carbon intensity across their demand profile and promote grid efficiency		Report and implementation plan	Q4 2022	SEAI	CRU, IDA, EI, EirGrid DECC, DETE, ESBN

Action	100	Publish and implement a new Demand Side Strategy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish a consultation on a 2030 Electricity Demand Side Strategy		Consultation	Q3 2022	CRU	EirGrid, ESBN, market participants
Deliver a 2030 Demand Side Strategy		Publication of 2030 Demand Side Strategy	Q4 2022	CRU	EirGrid, ESBN, market participants

Action	101	Enable and incentivise demand side flexibility			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop operational and market technology delivery plan for national flexibility rollout		NDCC Control Systems and Market Systems	Q2 2022	ESBN	CRU, SEAI, EirGrid
Develop ‘flexibility dashboards’ delivery plan for local, regional and community-specific information including renewables and electricity carbon intensity		Deliver Plan for online consumer and community dashboards	Q2 2022	ESBN	SEAI, DECC, CRU
Define standard control and monitoring requirements for consumer energy technologies to be ‘flexibility ready’		Standard technology requirements	Q4 2022	ESBN	NSAI, SEAI, DHLGH, EirGrid
Introduce local markets for flexibility services that align with whole of system approach		Local market pilots going live	Q4 2022	ESBN	DECC, EirGrid
Develop programme of consumer communications based on research relevant to demand side flexibility		Research and communications campaigns	Q4 2022	ESBN	CRU, SEAI
Develop tools and supports to enable community energy participation in flexibility		Publish suite of tools, supports and implementation plan	Q1 2023	ESBN	SEAI, CRU, DECC
Introduce modalities enabling distributed flexible customers to participate in wholesale and system services markets		Technical modalities	Q4 2024	ESBN	CRU, EirGrid
Enhance visibility of the local electricity network to enable demand side flexibility		50% of network monitored from National Distribution Control Centre (NDCC)	Q4 2025	ESBN	CRU, SEA



Action	102	Ensure supportive spatial planning framework for onshore renewable electricity generation development			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish a steering group to oversee LARES, the framework for onshore renewable electricity development and Regional Renewable Electricity Strategies		Steering group	Q1 2022	DECC	Regional Assemblies, SEAI, DHLGH
Designate a single contact point to guide applicants through and facilitate the entire permit granting process for renewable electricity installations		Single Contact Point	Q2 2022	DECC	DHLGH, ESNB, EirGrid, CRU, SEAI
Review and publish a revised Methodology for Local Authority Renewable Energy Strategies		Guidance published	Q3 2022	SEAI	DHLGH, DECC, CCMA
Publish a framework to set out targets for onshore renewable electricity development to inform spatial plans		Policy Framework	Q4 2022	DECC	DHLGH, SEAI, Regional Assemblies
Publish a Roadmap for the development of the Regional Renewable Electricity Strategies		Roadmap	Q4 2022	Regional Assemblies	DECC, SEAI, DHLGH
Publish new Wind Energy Development Guidelines		Planning Guidelines	Q2 2023	DHLGH	DECC

Action	103	Transpose Internal Market for Electricity Directive (EU) 2019/944			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop Statutory Instruments transposing remaining articles in Directive		One or more Statutory Instruments signed by the Minister	Q2 2022	DECC	Commission, CRU, Electricity Industry, Industry representative bodies, OPC
Submit completed correlation table and notify transposition measures to the European Commission		Notification of table and measures to the European Commission	Q2 2022	DECC	Commission, CRU, Electricity Industry, Industry representative bodies, OPC

Action	104	Deliver regular Onshore Renewable Electricity Support Scheme auctions that aligns with spatial and planning policy and efficient use of the network			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish indicative forward RESS auction calendar		Information paper	Q4 2021	DECC	CRU, EirGrid
Complete RESS 2 Auction		Auction completed	Q2 2022	DECC	CRU, EirGrid
Commence RESS 3 Auction		Auction process commenced	Q4 2022	DECC	CRU, EirGrid

Action	105	Deliver a Microgeneration Policy Framework			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Finalise design of a compensation framework for export for all renewable-self consumers		Clean Export Guarantee compensation design complete	Q4 2021	CRU	DECC, ESNB
Develop and trial a streamlined grid connection pathway for installation sizes up to 50 kW		Commence Application process trial for 12-50kW	Q4 2021	CRU	DECC, ESNB
Publish the final High-Level Design for a Microgeneration Support Scheme (MSS)		Published scheme	Q1 2022	DECC	CRU, SEAI, ESNB
Commence transition of existing Solar PV domestic grant scheme to MSS grant scheme		MSS grant scheme for domestic solar PV	Q2 2022	SEAI	DECC, ESNB
Complete the implementation of interim micro-generation system & market change solution		Interim micro-generation scheme	Q2 2022	CRU	DECC, SEAI
Consult on an Implementation Plan for a support tariff for new micro-generators between 6 kW and 50 kW		MSS Clean Export Premium tariff	Q3 2022	CRU	DECC, ESNB, SEAI

Action	106	Ensure communities benefit from renewable energy projects in RESS – benefit funds and ownership			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Launch Community Enabling Framework Grants		Grants application process launched	Q4 2021	SEAI	DECC
Establish Community Enabling Framework Trusted Advisor Framework		Trusted advisory Framework in place	Q2 2022	SEAI	DECC
Progress reporting on status of Community Enabling Framework		SEAI to present to RESS Communities Steering Board	Quarterly	SEAI	DECC & RESS Communities Steering Board
Plan Online Renewable Energy Training Programme		Appoint Professional Institute lead	Q4 2022	SEAI	DECC & RESS Communities Steering Board
Activate Community Benefit Fund Register		National register records first funds dispersed to community initiatives	Q1 2023	SEAI	DECC
Ensure a pipeline of community projects for each RESS auction to contribute to 500 MW of community renewable energy by 2030		100MWs of community energy supported by end of third onshore RESS auction	Q4 2023	DECC	CRU/ ESBN/ SEAI/ EirGrid

Action	107	Conclude the review of the current planning exemptions relating to solar panels, to ensure that households, schools, and communities can be strong champions of climate action			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Introduce interim regulations amending solar panel planning exemptions, with defined exclusion zones around airports and aerodromes for solar installations		Legislation	Q1 2022	DHLGH	DECC, IAA
Develop necessary aviation safeguarding maps in conjunction with external consultants and introduce final regulations concerning solar panel planning exemptions, incorporating said maps		Legislation	Q2 2022	DHLGH	Vendor(s)

Action	108	Deliver a Solar and Small-Scale Generation Policy Framework		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Publish a draft Small-Scale Generation (SSG) scheme for consultation to support the deployment of rooftop and ground-mounted solar PV in cohorts that are not as suited to measures such as the Microgeneration Support Scheme and RESS	Consultation published	Q2 2022	DECC	CRU, SEAI, ESNB
Develop and trial a streamlined grid connection pathway for export connections for renewables self-consumers from 51kW to 200kW	Commence Application process trial for 51-200kW	Q3 2022	CRU	DECC, ESNB
Determine an appropriate settlement mechanism for small-scale generators between 51 kW and 500 kW	SSG Premium tariff	Q4 2022	CRU	DECC, ESNB, SEAI
Publish final Small-Scale Generation high-level design to support the deployment of rooftop and ground-mounted solar PV in cohorts that are not as suited to measures such as the Micro-generation Support Scheme and RESS.	Published high level design	Q1 2023	DECC	CRU, SEAI, ESNB

Action	109	Ensure security of electricity supply		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Undertake all necessary steps to ensure secure and reliable supplies of electricity to all consumers	Secure supplies of electricity as evaluated in EirGrid's annual Generation Capacity Statement	Every Q2	CRU	DECC, EirGrid

## Electricity

Action	110	Update the Interconnection Policy to reflect the amendment to the EU TEN-E Regulation, Brexit challenges and the increased significance of hybrid interconnectors			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Update the CRU Policy for Electricity Interconnectors		Interconnector Regulatory Policy published	Q3 2023	CRU	EirGrid, DECC
Update the 2018 National Policy on Electricity Interconnection		Interconnection Policy published	Q4 2022	DECC	CRU, Eirgrid

Action	111	Review the existing electricity transmission and distribution network tariff structures to assess what changes may be necessary to deliver equitable, cost reflective and transparent charges that facilitate investment in our low carbon transition and the new ways in which the network will be used in the future			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Evaluate and consult on potential structural changes to the network tariffs and issue a decision		Publish Decision Paper	Q4 2022	CRU	ESB networks and Eirgrid; Industry and consumers

Action	112	Assess the network development required to integrate higher levels of RES-E and develop a high-level network development plan to (and beyond) 2030			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
North-South Interconnector: 1. Landowner engagement to progress access for surveys 2. Carry out surveys 3. Landowner engagement to progress land access for construction 4. Progress project procurement activities		Landowner engagement, survey completion, project procurement activities progressed	Q4 2021	EirGrid	Various
Celtic Interconnector: Progress project procurement activities for a new interconnector connecting the electricity grid of Ireland and France		Progress Report	Q4 2021	EirGrid	In partnership with Réseau de Transport d'Électricité
Completion of the North-South Interconnector: a new interconnector connecting the electricity grids of Ireland and Northern Ireland		Completion of the new interconnector	Q4 2025	EirGrid	ESBN, (working with SONI, NIE)

Action	113	Facilitate very high penetration of variable renewable electricity through system services and market arrangements			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete the remaining deliverables under the DS3 Programme to enable 75% of the demand on the system to be met from variable renewable generation		Changes to operational practices	Q1 2022	EirGrid	CRU, DECC
Detailed design of new market arrangements for the evolution of System Services to enable renewable electricity targets and zero carbon system services		Publication for consultation on detailed design of new system services arrangements	Q2 2022	CRU	CRU, DECC
Implementation of new DS3 System Services market design		Launch of new system services arrangements	Q3 2023	EirGrid	CRU, DECC



## Electricity

Action	114	Develop the onshore electricity grid to support renewable energy targets			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continue to deliver regular rounds of grid connection offers in line with RES-E targets (from ESNB and Eirgrid)		Offers made	Q3 2022	EirGrid	CRU, ESNB, Electricity generation project developers

Action	115	Review the policy position on the development of private networks/direct lines			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Draft and publish consultation paper on policy options on Private Wires		Public Consultation Paper published on website	Q1 2022	DECC	Consumers, CRU, EirGrid, Industry, ESNB
Assess/analyse consultation responses and submit decision paper on preferred option(s) to Minister		Decision paper on preferred option(s) submitted to Minister	Q3 2022	DECC	CRU, EirGrid, ESNB

Action	116	Develop a new Offshore Renewable Energy Development Plan (ORED II)			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Establish an OREDP steering group, agree structure and terms of reference for the project, encompassing a comprehensive assessment of marine biodiversity using Observe 2 and other relevant datasets	Steering group established, terms of reference and conditions and work programme signed off	Q4 2021	DECC	DHLGH, SEAI	
ORED II and associated Strategic Environmental Assessment completed and published	Reports published	Q4 2022	DECC	DHLGH, SEAI	
ORED II relevant digital map database and model for area planning developed	Database built and model developed and subsequent Resource Potential Model	Q4 2022	GSI	DECC, DHLGH	

Action	117	Facilitate the development of offshore wind, including the connection of at least 5 GW of offshore wind, based on competitive auctions, to the grid by 2030			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continued analysis of onshore transmission system capacity to integrate 5GW of offshore wind, including any necessary reinforcements		Regular Updates to be provided to DECC	Quarterly	EirGrid	
Develop a digital portal which allows the public and planners to interrogate the marine planning map of Ireland and the relevant policies on a sectoral basis		National Marine Planning Framework Digital Portal launched	Q1 2022	DHLGH	DECC, MI, SEAI

## Electricity

Action	118	Develop a clear Offshore Renewable Energy Grid Connection Policy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop a grid connection policy for First Offshore Renewable Energy Auction following Government decision on grid policy		Grid Connection Policy Published	Q2 2022	CRU	DECC, Eirgrid, ESBN

Action	119	Complete the mapping of all Irish offshore waters through the INFOMAR Programme to support all marine activities including climate effect monitoring and site selection for offshore energy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Mapping completed and informar.ie regularly updated	Q4 2026	GSI	DECC Marine Institute, D/Transport (MSO), DAFM (Aquaculture), DHPH (MSP, MPA), SEAI, BIM, OPW

Action	120	Ensure offshore renewable energy requirements are delivered in the Maritime Area Planning Bill			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Enact Maritime Area Planning Bill which provides a comprehensive regulatory basis for development of offshore renewable energy		Maritime Area Planning Bill enacted	Q4 2021	DHLGH	DECC
Finalise ORE specific secondary legislation and Regulations within 4 months of the MAP Bill being enacted		Secondary legislation and regulations	Q2 2022	DECC	DHLGH

Action	121	Develop a new consenting system for offshore renewable energy post Maritime Area Planning Bill enactment			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop process and guidance for Maritime Area Consent applications for Offshore Renewable Energy under the new MAP legislation		Minister of ECC enabled to invite MAC applications for ORE relevant maritime usage	Q2 2022	DECC	DHLGH
Establish a new State Agency - The Maritime Area Regulatory Authority (MARA) - to grant and manage all future MACs beyond initial batch 1 projects, as Ireland moves towards a plan-led consenting regime for ORE		MARA established. Consenting processes handed over from Minister of EEC to MARA	Q1 2023	DHLGH	

Action	122	Finalise design and rollout of dedicated offshore RESS auction			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop terms and conditions for dedicated offshore RESS auction		Finalised auction terms and conditions	Q2 2022	DECC	CRU, Eirgrid,
Commence dedicated offshore RESS auction		RESS auction process commenced	Q4 2022	DECC	CRU, Eirgrid

Action	123	Support the offshore and ocean energy research, development and demonstration pathway for technologies and associated test infrastructure			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Provide ORE research funding to industry and academia, and facilitate provision of ORE test infrastructure		SEAI RD&D Programme ORE projects funded, and test facilities utilised	Q1 2022	SEAI	
Undertake review, including economic analysis of the case for developing beyond 5GW of Offshore and Ocean Renewable Energy Research, Development and Deployment support mechanisms		Publish 2030+ roadmap to determine pathways to deploy offshore/ocean technology including the potential to develop external energy markets	Q4 2022	SEAI	
Implement Roadmap funding recommendations to advance technology development & deployment		Roadmap funding recommendations implemented	Q2 2023	SEAI	

Action	124	Develop a storage policy framework that supports the achievement of electricity emissions targets			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Consult on a policy framework for electricity based on electricity system needs		Consultation	Q2 2022	DECC	CRU, EirGrid, ESBN
Publish a policy framework for electricity storage based on electricity system needs		Policy Framework published	Q1 2023	DECC	CRU, EirGrid, ESBN
Review the regulatory treatment of storage including licensing, charging and market incentives		Regulatory review	Q4 2023	CRU	EirGrid, ESBN, Market Participants

Action	125	Facilitate the connection of hybrid technologies that minimise grid reinforcement			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Determine contractual framework approach to accommodate Multiple Legal Entities behind a single connection point		Decision	Q1 2022	CRU	EirGrid, ESBN, Market Participants
Scoping of Work Package for trading of Maximum Export Capacity (MEC) in Ireland		Internal Review	Q1 2022	EirGrid	ESBN
Issue System Operators recommendations to CRU on proposed changes to Over Install policy (ESBN and Eirgrid)		Recommendation	Q2 2022	EirGrid,	ESBN
Conclude review of the existing Over-Install Policy		Decision	Q4 2022	CRU	
Technical assessment of options for trading of MEC behind a single connection point		Technical analysis	Q4 2022	EirGrid	ESBN
Determine policy for trading of Maximum Export Capacity (MEC) behind a single connection point that enables Hybrid connections		Decision	Q1 2023	CRU	

Action	126	Examine and oversee the feasibility of the utilisation of Carbon Capture and Storage in Ireland			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish a framework for analysis of the potential for CCS deployment for Ireland including assessment of the environmental, technical, and financial factors		A framework for analysis of CCS potential for Ireland, including feasibility in electricity and cement sectors	Q4 2022	DECC	EPA, SEAI, DETE

## Electricity

Action	127	Carry out power system modelling required to meet renewable energy and electricity emissions targets and analysis to underpin a Net Zero Roadmap			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish final 'Shaping our Electricity Future'		Report	Q4 2021	EirGrid	Various
Further grid, operational and market studies to facilitate renewable electricity up-to 80% annual share		Analysis	Q4 2023	EirGrid	ESBN, CRU
National distribution system analyses identifying technical requirements to achieve up 80% renewables and electrification of heat and transport		Analysis	Q4 2023	ESBN	EirGrid, CRU
Carry out analysis to assess pathway to Net Zero emission in electricity to underpin Net Zero Roadmap		Analysis	Q4 2023	EirGrid	EirGrid, ESBN, CRU, DECC
Deliver Net Zero Roadmap for electricity sector		Roadmap	Q2 2024	DECC	EirGrid, ESBN



Action	128	Establish Cross-Departmental Offshore Renewable Energy Team			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Cross Department Group established	Q2 2022	DECC	DETE, DTTAS

Action	129	Make time-of-use tariffs and smart bills available to electricity consumers			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
CRU to progress Smart Metering Programme and Billing for Electricity (formats, etc.)		Smart Metering Programme and Billing for Electricity	Q4 2022	CRU	DECC
Roll out of smart metering services (new products and services to enable consumer to shift some of consumption to off peak times when electricity is cheaper)		Introduction of new services	Q4 2022	ESBN	DECC

## Enterprise

Action	130	Develop an online climate action portal for enterprises with relevant tools and content to include a carbon calculator, template action plan and signposting to relevant agency programmes			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Undertake a communications campaign to promote the launch of the Climate Action hub "(Climate Toolkit for Business)" for businesses		Launch and communications plan	Q4 2021	DETE	Dept of the Taoiseach, DECC, EI, IDA, SEAI, IBEC, Chambers Irl
Develop a communications plan for the Climate Action Hub "(Climate Toolkit for Business)" in 2022		Report of Toolkit analytics, level of engagement and proposed communications plan for 2022	Q1 2022	DETE	Dept of the Taoiseach, DECC, EI, IDA, SEAI, IBEC, Chambers Irl

Action	131	Develop networks in key industry sectors and a roadmap of actions to support decarbonisation of large industry			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop networks in key industry sectors and a roadmap of actions to support decarbonisation of large industry		Network and Roadmap of actions developed	Q4 2022	SEAI	DECC

Action	134	Establish a focus group comprised of the relevant stakeholders to develop the actions required to achieve the Climate Action Plan target of a “10% (and up to 60%) decrease in embodied carbon in construction materials” including low carbon cement.			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish Membership of Focus Group and set meeting schedule and work programme		Meetings scheduled and work programme in place	Q1 2022	DETE	DHLGH, DECC, EPA, NSAI, OGP, DPER, SEAI, Irish Green Building Council, Construction Sector Group
Circulate Actions for Sign-off		Cap 22 Actions	Q3 2022	DETE	DHLGH, DECC, EPA, NSAI, OGP, DPER, SEAI, Irish Green Building Council, Construction Sector Group

Action	135	Continue to develop and support its Offshore Wind Industry Cluster which comprises over 50 Irish supply chain companies			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Promote the strengths of the Irish supply chain with a focus on major offshore wind developers, tier one industry contractors, Original Equipment Manufacturers, trade associations, government agencies and ports through a programme of events	Programme of events	Q4 2021	EI		
Hold the Enterprise Ireland Offshore Wind Showcase Event, convening delegates from across the Irish and UK offshore wind industry	Event held	Q1 2022	EI		

Action	136	Assist SEAI through registration of insulation installers for retrofit of buildings			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Certify insulation installers		Registered installers	Q2 2022	NSAI	

Action	137	Adapt national structural design codes for physical infrastructure to take account of changes in climate			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Consult with key stakeholders and experts on the most appropriate way to introduce climate change coverage in Irish National Annexes when assessing the actions of wind, snow, and temperature on a structure's design life		Develop guidance for designers on how to account for climate change	Q1 2025	NSAI	DHLGH
Finalise and publish Irish National Annexes in support of the "Eurocode 1 – Actions on structures" standard & its parts		Publication of National Annexes	Q3 2027	NSAI	

Action	138	Publish a standard recommendation for the design, installation, and commissioning of solar PV panels in new and existing dwellings			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Public consultation on draft deliverable Standard Recommendation in line with standards regulations and principles	Public consultation on committee draft	Q4 2021	NSAI	SEAI, and, other industry stakeholders, etc.	
Finalise and publish deliverable Standard Recommendation	Production of a standard recommendation	Q1 2022	NSAI	SEAI, and, other industry stakeholders, etc.	
Promotion of Standard	PR campaign	Q2 2022	NSAI	SEAI, and, other industry stakeholders, etc.	

Action	139	Adopt the international technical standard - "ISO TS 14092:2020" - to provide guidance for local governments and communities in planning for adaptation for climate change (e.g., sea level rise, coastal erosion, and flooding)			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Seek approval from NSAI board to adopt ISO TS 14092 regarding adaptation to climate change as an Irish Standard Recommendation		New Irish Standard Recommendation adopted	Q1 2022	NSAI	
Promotion of Standard to local authorities		PR campaign	Q2 2022	NSAI	

Action	140	Define and develop inspection methodology and regulations for compliance of electric charging meters for charging electric vehicles			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete scoping of current inspection approaches and regulations in EU		Summary of findings which will inform Legal Metrology	Q2 2022	NSAI	
Develop the inspection processes and enforcement structure		Inspection procedure and risk-based enforcement plan	Q4 2023	NSAI	
Develop Regulations		Draft Regulations	Q4 2024	D/Trans port/ DECC	
Implement enforcement structure and promote legal responsibilities for stakeholders		Statutory Inspections in place	Q2 2025	NSAI	

Action	141	Offer the certification scheme “ISO14064:2019 – <i>Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals</i> to assist enterprises to quantify and report their Greenhouse Gas Emissions			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Recruit and train staff to roll out certification scheme		Certification	Q2 2022	NSAI	

Action	142	Develop a certification scheme for SR54 Energy Efficient Retrofit of Dwellings			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Recruit and train staff		Develop certification Scheme and related PR campaign	Q2 2023	NSAI	DECC, DETE

Action	143	Update the Eco-design Regulations for energy efficient products			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Continue to engage with the EU Commission and other Member States on development of new and existing product regulations under the Ecodesign Regulation	EU policy development and regulations		Q3 2022	EI	DETE

Action	144	Negotiate and implement the revised EU Corporate Sustainability Reporting Directive which includes environmental information			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop Ireland’s negotiating position on the draft EU Instrument		Ireland’s position finalised	Q4 2021	DETE	
Analyse responses from public consultation		Responses from public consultation analysed	Q4 2021	DETE	
Continue supportive engagement in the EU negotiations throughout transposition period and finalise transposition into Irish law		Engagement with key stakeholders and transposition of Corporate Sustainability Reporting Directive into Irish law	Q4 2022	DETE	

Action	145	Promote a focus on CO2 reduction / sustainability credentials across venture capital funds delivered under the EI Seed & Venture Capital programme			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Explore the feasibility of attracting funds with a focus on CO2 reduction / sustainability		EI to deliver an assessment of the funding needs of early-stage companies with business models relevant to the low carbon transition	Q4 2021	EI	DETE

Action	146	Deliver the programmes to decarbonise enterprise outlined in the NDP and Resilience and Recovery Fund Submissions			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Deliver the Carbon Reduction Fund		Launch the Fund	Q1 2022	EI/IDA	DECC, SEAI
Launch and deliver on the Enterprise Ireland Climate Enterprise Action Fund		Provide the numbers of companies that received grant support under the Climate Enterprise Action Fund	Q3 2022	EI	DETE
Deliver the programmes to decarbonise enterprise outlined in the NDP and projects due to be funded in the Resilience and Recovery Fund Submissions		Programmes complete	Q4 2025	DETE	EI, IDA, DECC & SEAI

Action	147	Promote the potential of innovation and applied research in Artificial Intelligence, Machine Learning and Data Analytics to solve complex challenges related to sustainability and the low carbon transition			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Submit proposals relating to the application of AI in renewable energy		Engage in 2 large climate action demonstrator projects (Machine Learning for Green Energy & AI Bill Reduce) and other 'one to one' project with 25 companies	Q4 2021	IDA	EI, DETE
Increase the number of companies engaged in applied research projects related to AI and sustainability		Evidence of increase	Q4 2022	EI/IDA	

Action	148	Build a Pilot Technology Gateway in the North East Region to harness the expertise of Dundalk IoT in terms of Energy Efficient and Energy Optimisation of products			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Collaborate with DkIT and companies in the region to promote DkIT as a provider of expertise to regional (and national) companies		Assist companies with 8 projects	Q4 2021	EI	Technology Gateway Network

Action	149	Perform research and encourage Irish researchers to contribute to the EU Green Deal research programme with respect to metrological assistance for the development of clean energy technologies			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop proposals and contribute to research consortia in response to research calls under the Green Deal		Irish researchers contributing to Green Deal related Joint Research Projects	Q3 2023	NSAI	



Action	150	Promote the benefits of adapting to low carbon technologies and processes to SMEs through a new Low Carbon Business Award within the existing Seedcorn Investor Readiness Competition			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Provide a dedicated award for businesses that best present a low carbon offering in the investor readiness competition		Dedicated award provided	Q4 2022	Intertrade Ireland	

Action	151	Incorporate measurement of climate-related impacts into capital grant decisions by the enterprise agencies			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assess climate parameters to be included in the Economic Appraisal Model and understand the potential to use data captured for the agency Economic Appraisal Model		Research paper	Q4 2021	DETE	EI, IDA & Udaras na Gaeltachta, DPER
Develop the climate-related parameters and include in agencies' appraisal system		Economic Appraisal Model amended, or alternative assessment developed	Q2 2022	DETE	EI, IDA & Udaras na gaeltachta, DPER
Collect additional climate data from enterprise agency clients through their annual surveys		Data collected from agency clients that complement the annual business surveys	Q3 2022	DETE	EI, IDA & Udaras na gaeltachta
Assess agency grants through the Economic Appraisal Model for their Climate impact		Agencies begin using amended Economic Appraisal Model or alternative assessment	Q3 2022	DETE	EI, IDA & Udaras na gaeltachta, DPER

Action	152	Enterprise Ireland to develop and publish their new corporate strategy 2022-2025, including a focus on climate action and sustainability			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Set out actions to embed sustainability and climate action as a fundamental part of its approach to company development and engagement with client companies	Strategy including relevant targets for Climate Action developed	Q4 2021	EI		

Action	153	Align Enterprise Ireland and IDA grant funding and supports with progress towards achieving the carbon abatement targets for enterprise, ensuring resilience in the transition to a low carbon economy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Revise relevant policies governing EI and IDA financial supports to enterprises, including equity funding and research, development, and innovation		Update provided on the internal policy revisions and their implementation	Q1 2022	DETE	EI & IDA
Revise policy and develop proportionate approach to due diligence to include decarbonisation requirement so that EI and IDA will direct State investments to projects which will deliver economic value consistent with the transition to a low carbon economy		Produce in writing an agreed proportionate approach with DETE	Q1 2022	DETE	EI & IDA
Establish the sector specific funding requirements of clients in high-impact sectors such as Food & Drink, Cement, Construction, Engineering, Pharma, and other Manufacturing		Sector specific approach and agency activities identified and detailed for the high impact sectors	Q1 2022	DETE	EI & IDA
Implement the revised policy for new funding applications to Future-proof company growth plans and accelerate the low-carbon transition		Provide an update of the implantation of the new policy/offers and the number of companies receiving funding from EI	Q3 2022	DETE	EI & IDA

Action	154	Put in place training and educational programmes on sustainability and climate action for IDA executives			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implement training and educational programmes on best practice in sustainability, climate action and decarbonisation		Training delivered	Q4 2021	IDA	

Action	155	Experiment with initiatives to incorporate new content or modules relating to climate and sustainability into Client Management Development programmes			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assess existing EI programme of courses for 2021 to identify where new content will fit best		Provide feedback and required additional agency actions from initial initiatives	Q1 2022	EI	SEAI

Action	156	Develop a strategy specifying optimum sustainability solutions and additional carbon abatement opportunities in IDA’s property portfolio			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Identify various climate action options and select optimum solutions		New strategy and plan of action to further decarbonise IDA’s property portfolio	Q3 2022	IDA	

Action	157	Introduce pilot biodiversity measures in one of IDA's Business Parks			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Select Business Park and determine piloting programme		A biodiversity programme underway in one of IDA's Business Parks	Q4 2021	IDA	

Action	158	Enable the preparation of detailed firm-level decarbonisation implementation strategies by large food & drink businesses			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Taking a targeted approach to resilience in the food & drink sector, EI will commence work with key clients in consultation with Bord Bia and SEAI, to investigate and prepare a medium and long-term pathway towards decarbonisation through development of detailed operational plans at company level		Provide the number of companies engaged with to accelerate the understanding of investment options and planning by key companies contributing to enterprise sector emissions abatement	Q1 2022	EI/Bord Bia	SEAI, DECC & DAFM
EI will build on Origin Green plans with the permission of companies to enable further analysis at company level with a focus on the investment options, cost, technical feasibility, barriers, and impact on company competitiveness of switching technologies, including electrification or use of decarbonised gas before 2030		Provide the number of companies engaged with to accelerate the understanding of investment options and planning by key companies contributing to enterprise sector emissions abatement	Q1 2022	EI/Bord Bia	Bord Bia, SEAI, DECC & DAFM
Support investment in decarbonised processes through, for example, the Government's Scheme for the Agri-food sector, the Carbon Reduction Fund (NRRF), and the SEAI EXEED programme.		Provide the number of companies enabled to develop detailed decarbonisation implementation strategies in the Food & Drink sector	Q2 2022	EI/SEAI	Bord Bia, DETE, DECC, DAFM, SEAI
Require Origin Green company members with a turnover greater than €50 million to establish carbon emission targets. Origin Green company members must conduct baseline assessments in 2021 to determine company emissions targets.		Update in Q4 2022 on the number of companies who have completed baselines and set carbon emissions targets.	Q4 2022	Bord Bia	DAFM, EI, SEAI, DETE, DECC

Hold annual net zero emissions guidance webinars for Origin Green company members to ensure targets are set, maintained, and implemented	Host net zero guidance webinars to inform the development of ambitious and credible emissions targets, Bord Bia to report on number of companies engaged.	Q4 2022	Bord Bia	DAFM, EI, SEAI, DETE, DECC
Encourage Origin Green company members to enrol in the SEAI Energy Academy courses on an ongoing basis, including: Decarbonisation for Businesses, Energy Use in Labs, Meters and Sensors Energy Audits, Encourage Origin Green company members to avail of EI supports	Host annual workshops with Origin Green member companies to increase awareness of supports and funding available from SEAI and EI. Bord Bia to report on number of companies engaged.	Q4 2022	Bord Bia	DAFM, DETE, DECC, EI, SEAI

Action	159	Implement the €100m Capital Investment Fund for Agri-Food Sector for the Processing and Marketing of Agricultural Products		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Roll out the Capital Investment Fund for Agri-Food Sector to enable companies to undertake long term transformative capital investment projects that will contribute to the climate agenda. These projects are aimed at achieving higher value-add by implementing new product and/or market diversification strategies	Fund and projects rolled out	Q4 2021	EI	

Action	160	Develop certification of recycled construction products scheme			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Recruit and train staff. Develop certification scheme. Include requirement in public procurement		Certification scheme set, training and public procurement requirement established	Q3 2022	NSAI	

Action	161	Publish an Irish Standard to enable organisations apply a systematic approach to Energy Efficient Design throughout the various steps of design, construction, and commissioning of investment projects			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Finalise and publish deliverable, and commence promotion		Irish Standard (I.S.) 399: Requirements with guidance for use	Q1 2022	NSAI	SEAI and other industry stakeholders

Action	162	Develop and publish the IntertradeIreland 2022 Business Plan, to include a priority of 'Adaption to the low carbon Economy'			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Set out commitments to assist firms in adapting to both low carbon actions and opportunities for sector growth		Plan including commitment to utilise existing programmes to maximise growth for SMEs in low carbon innovations	Q2 2022	Intertrade Ireland	

Action	163	Continue development of the second phase of the Dairy Processing Technology Centre to develop technologies and approaches that will deliver reduced carbon and greenhouse gas footprints in the dairy industry			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implement the DPTC Phase 2 research programme which has a Focus Area on Sustainable Milk Processing		7 of Ireland's primary dairy producers engaged in 5 large sustainable milk production research projects	Q4 2021	EI	

Action	164	Enable the preparation of detailed decarbonisation implementation strategies by client companies in high-impact sectors such as Pharmaceuticals, Cement, Construction, Engineering, and other manufacturing			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Enable analysis at company level with a focus on the investment options, cost, technical feasibility, barriers, and impact on company competitiveness of significant carbon abatement through switching energy or production technologies, including electrification or use of decarbonised gas before 2030		Provide the number of company analyses that have been enabled to accelerate understanding of investment options and planning by key companies contributing to enterprise sector emissions.	Q1 2022	EI/IDA	DETE, DECC, SEAI
Support investment in decarbonised processes through the Carbon Reduction Fund (NRRF), the EI and IDA Environmental Aid programme, SEAI EXEED programme and other enabling supports		EI, IDA & SEAI to provide the number of decarbonisation investments supported	Q3 2022	DETE	DECC, EI SEAI, IDA

Action	165	Develop Corporate Climate Action Plans with key clients for their Irish sites			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Engage with key clients across all IDA targeted sectors (e.g., life sciences, ICT, etc) to develop Corporate Climate Action Plans		20 Corporate Climate Action Plans	Q4 2021	IDA	



Action	166	Identify and engage client companies using the most emissions-intensive fuels (e.g., coal, pet coke and fuel oils) and support them to develop proportionate decarbonisation plans to remain competitive			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Delivery of the Climate Enterprise Action Fund to accelerate awareness of abatement opportunities and to develop plans for lower-carbon products, processes, and business models	Ongoing advertising and communication to businesses of the Fund	Q4 2021	EI		
Identify clients using the most emissions-intensive fuels (coal, pet coke, fuel oils etc.), and pro-actively engage them through the Climate Enterprise Action Fund to ensure resilience in low carbon transition	Identification of agency clients using emissions-intensive fuel and subsequent engagement	Q1 2022	EI		

Action	167	Engage with the alumina manufacturing sector and key stakeholders to progress measures to support the achievement of the identified potential abatement			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Agree high level de-carbonisation plan with the sector and energy sector stakeholders, with commitments on key actions to support the development of renewable energy supply options and project costing		Detailed alumina manufacturing plan agreed by key stakeholders	Q2 2022	IDA	EPA/DECC/ DETE/ SEAI

Action	168	Support businesses to decarbonise through the provision of capital support programmes to enhance energy efficiency			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Support businesses to adopt the Excellence in Energy Efficient Design (EXEED) Certification subject to the availability of exchequer funding		Mid-term review of EXEED support scheme	Q2 2022	SEAI	DECC, DETE, EI, IDA
Develop the Support Scheme for Renewable Heat (SSRH), subject to the availability of exchequer funding, with an increased focus on large energy users		Review of SSRH completed with revised levels of supports as appropriate	Q2 2022	DECC	SEAI

Action	169	Develop renewable gas in the gas grid			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish an official certification scheme for renewable gas in the gas grid		Secondary legislation establishing GNI's renewable gas registration scheme	Q2 2022	DECC	CRU, GNI
Test the technical feasibility of safely injecting green hydrogen blends in the gas grid		Completed assessment of the impacts on network operation, integrity, and end users' appliances	Q4 2022	GNI	CRU, DECC
Develop biomethane grid injection infrastructure through the GRAZE Gas project with support from the Climate Action Fund.		Commence operation of Ireland's first transmission-scale biomethane injection facility	Q4 2023	GNI	
Assess the potential for energy system integration between the electricity and gas networks including the production, storage and use of green hydrogen		Assessment of the potential for electricity and gas system integration published	Q1 2023	DECC	CRU, GNI, EirGrid, SEAI
Develop a policy/regulatory roadmap for green hydrogen use in the natural gas grid.		Publish a policy/regulatory roadmap for green hydrogen use in the natural gas grid	Q1 2023	DECC	CRU, GNI
Review the indicative target set for the level of biomethane in the gas grid by 2030		Review of target completed and updated if appropriate	Q2 2023	DECC	CRU, GNI

Action	170	Develop the pipeline of high potential start-ups with low-carbon and sustainable solutions			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assist in the development of new carbon transition tools by high potential start up clients, including targeting of cleantech/greentech start-ups through early-stage funding competitions such as Competitive Start Fund		Provide the number of investments in High Potential Start-ups with a focus on sustainability and CO2 reduction	Q4 2021	EI	

Action	171	Continue development of the second phase of the Irish Manufacturing Research Technology Centre as a hub of sustainable manufacturing expertise			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Rollout of national circular economy platform for manufacturing ('CIRCULÉIRE') and rollout of second Phase of the Irish Manufacturing Research IMR Technology Centre		40 companies engaged in circular economy network	Q2 2022	EI	EPA

Action	172	Consider introducing a renewable energy obligation in the heat sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete the public consultation on the potential introduction of a renewable energy obligation in the heat sector		Public consultation on the potential introduction of a renewable energy obligation in the heat sector published	Q4 2021	DECC	DETE, CRU, SEAI
Determine if renewable energy obligation should be introduced in the heat sector		Publish a decision on whether an obligation should be introduced along with the planned timeframe and scope	Q1 2022	DECC	DETE, CRU, SEAI

Action	173	Undertake research into business engagement with the low carbon agenda, including support needs to invest and commitment to low carbon adaptations			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Research business engagement with climate action through the All-Island Business Monitor		Dissemination of findings to policy makers in Ireland and Northern Ireland, and to other key stakeholder groups	Q4 2022	Intertrade Ireland	

Action	174	Proactively engage with opportunities to support business cluster and network development which will support the all-island circular economy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Proactively seek to support circular economy cluster development		A minimum of one cluster or network growing all-island circular economy opportunities supported	Q4 2022	Intertrade Ireland	

Action	175	Win ten environmental sustainability investments in 2021			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Engage with clients and agree on investments		Ten sustainability investments	Q4 2021	IDA	

Action	176	Facilitate licencing of fuel-switching in industrial processes			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Explore the secondary materials supply market and opportunity (technical compatibility and supply)		Report	Q1 2023	EPA	DECC, DETE

Action	177	Introduce new legislation to reform the judicial review process, in compliance with EU legal requirements, so that reforms come into effect on the establishment of a new Division of the High Court dealing with planning and environmental issues			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Introduce new legislation to reform the judicial review process, in compliance with EU legal requirements, so that reforms come into effect on the establishment of a new Division of the High Court dealing with planning and environmental issues		Legislation introduced	Q2 2022	DHLGH	
Establish a new Division of the High Court dealing with planning and environmental issues		New Division established	Q4 2022	DoJ	

Action	178	Progress sustainability through business planning			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Include reference to sustainability commitments and actions in the tourism agencies annual Business Plans, Corporate Plans, Statements of Strategy and Annual Reports	Sustainability Commitments contained in 2022 Business Plans	Q1 2022	Tourism Ireland	Fáilte Ireland	
Identify and deliver incentive and capex schemes to industry to address key change barriers & drivers to stimulate transformational change	Appropriate schemes delivered	Q3 2022	Fáilte Ireland	Tourism industry	

Action	179	Promote and market sustainable tourism			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Create and embed aligned sustainability messaging to inform domestic and overseas consumer campaigns, and domestic and overseas trade communications	Messaging included in campaigns	Q4 2021	Tourism Ireland	Fáilte Ireland	

Undertake media and trade familiarisation programmes which feature sustainable tourism product	Media and trade programmes undertaken	Q4 2021	Tourism Ireland, Fáilte Ireland	Tourism media and trade
<b>Action</b>	<b>180</b>	<b>Implement Údarás na Gaeltachta's Gaeltacht Ghlas (Green Gaeltacht) project</b>		
<b>Steps Necessary for Delivery</b>	<b>Proposed Output</b>	<b>Timeline</b>	<b>Lead</b>	<b>Key Stakeholders</b>
Identify the best method to achieve carbon neutrality in buildings in the Údarás na Gaeltachta's property portfolio	Plan for upgrading and retrofitting of Údarás' industrial units finalised	Q3 2022	Údarás na Gaeltachta	
Provide support for research on the seaweed sector in the Gaeltacht	Report published	Q4 2023	Údarás na Gaeltachta	
Develop capacity of Údarás na Gaeltachta's boglands to act as carbon sinks	Pilot rewilding programme in boglands in the Galway Gaeltacht completed	Q4 2024	Údarás na Gaeltachta	
Develop a low-carbon Marine Innovation Park in Connemara	Páirc na Mara opened	Q4 2025	Údarás na Gaeltachta	DAFM
Support expansion of the gTEIC network of digital hubs	Support expansion of the gTEIC network of digital hubs	Q4 2025	Údarás na Gaeltachta	
Upgrade the energy efficiency of buildings in the Údarás na Gaeltachta property portfolio	Buildings upgraded	Q4 2025	Údarás na Gaeltachta	
Develop a service centre for the renewable energy industry on the West coast of Ireland in Ros a' Mhíl, Co Galway	Service Centre developed	Q4 2025	Údarás na Gaeltachta	
Promote the use of renewable energy and associated new technologies in Údarás na Gaeltachta's client companies	Renewable energy used in majority of Údarás na Gaeltachta business parks	Q4 2025	Údarás na Gaeltachta	Údarás na Gaeltachta Client Companies

Action	181	Promote sustainable practices in the Screen Production industry			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Expand the use of the Screen Greening Coalition’s carbon calculator and toolkit	Albert certification required for all Screen Ireland grants	Q4 2022	Screen Ireland	Broadcasting Authority of Ireland, RTÉ, Screen Producers Ireland, TG4, Virgin Media Television	



## Built Environment

### Phase out of Fossil Fuel Heating

Action	182	Carry out research to inform the development of options, policies, and measures to decarbonise the heating and cooling sectors to 2050		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Complete the National Heat Study	Publication of all reports under the National Heat Study	Q4 2021	SEAI	DECC, DHLGH, DETE

Action	183	Develop proposals to achieve complete phase out of fossil fuel heating throughout our building stock in line with our climate neutrality objective		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Complete necessary analysis to identify appropriate mechanisms consistent with EU law to phase out fossil fuels for heating	Options identified	Q3 2022	SEAI	DECC, DHLGH,

### Decarbonising Commercial Buildings

Action	184	Develop and enhance initiatives to educate and enable organisations to contribute to our national energy and emissions targets			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review the performance of the Support Scheme for Energy Audits and implement any required changes subject to availability of exchequer funding		Energy audit support scheme reviewed, and changes implemented, as appropriate	Q2 2022	SEAI	DECC
Review and develop the initiatives provided to educate and enable businesses to reduce energy use and emissions		Enhancement of information, advisory and training initiatives including the SEAI Energy Academy and LIEN network	Q4 2022	SEAI	DECC, DETE, EI, IDA

Action	185	Develop an approach to retrofit commercial buildings			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Based on the outcome of the National Heat Study, develop an approach to the retrofit of the commercial building stock		Agree approach, including Departmental and agency responsibilities, for the retrofit of the commercial building stock	Q3 2022	DECC	DETE, DHLGH, SEAI, DTCAGSM, DoH
The Strategic Banking Corporation of Ireland (SBCI) will assess potential options for an SME energy efficiency loan guarantee scheme to provide proof of concept and demonstrate market appetite.		Establish and launch scheme.	Q3 2022	SBCI	DFIN

### District Heating

Action	186	Support the delivery of district heating projects under the Climate Action Fund		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Commence the Dublin District Heating System project, supported by the Climate Action Fund, which will provide low carbon heat to businesses and homes in Dublin city	Business Case submitted to DECC	Q4 2021	Dublin City Council	DECC
Continue to support delivery of the Tallaght District Heating Scheme, which is supported by the Climate Action Fund, and aimed at using waste heat from a Data Centre to heat surrounding buildings	Completion of Phase 1	Q2 2022	South Dublin County Council	DECC

Action	187	Establish a system of governance for the development of district heating policy			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Establish a District Heating Steering Group to co-ordinate the development of district heating policy	District Heating Steering Group established		Q4 2021	DECC	DHLGH, Local Authorities, SEAI, CRU
District Heating Steering Group to report to Government annually	First annual report from District Heating Steering Group brought to Government and published		Q4 2022	DECC	District Heating Steering Group

Action	188	Conduct appropriate research to inform and support the growth and development of district heating in Ireland			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Use the outcome of the National Comprehensive Assessment and National Heat Study to examine targets for district heating rollout	Updated 2030 target for district heating approved by Government based on the outcome of the National Heat Study		Q2 2022	DECC	District Heating Steering Group

Action	189	Develop a regulatory framework to protect consumers, and to ensure that district heating is developed in a structured way			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Designate a regulator for district heating networks		National district heat network regulator designated	Q2 2022	DECC	Designated body, District Heating Steering Group
Transpose the district heating related requirements of the Renewable Energy Directive and Energy Efficiency Directive		Transposition completed	Q2 2022	DECC	Designated body, District Heating Steering Group
Transpose Article 15.4 of Renewable Energy Directive RED II to provide that Building Regulations shall permit minimum requirements for renewable energy to be fulfilled through efficient district heating and cooling as defined in the Energy Efficiency Directive		European Communities Act Regulations to transpose DH requirement of 15.4	Q2 2022	DHLGH	DECC, District Heating Steering Group
Review Primary Energy Factor (PEF) for District Heating Systems and verification system for PEF		Primary Energy Factor for efficient District Heating and a validation process	Q2 2022	DHLGH/ DECC	District Heating Steering Group
Determine the appropriate model for the development and ownership of district heating		District Heating Steering Group to recommend suitable ownership model	Q3 2022	DECC	District Heating Steering Group

Action	190	Ensure national, regional, and local planning frameworks encourage and facilitate the development of district heating where appropriate to facilitating compact urban development		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Provide that LAs consider policies where appropriate to enable the development of district heating systems, in the context of LA Climate Action Plan as part of the City/County Development Plan process, in tandem with the regulatory framework being established	Finalise Section 28 Development Planning Guidelines for Local Authorities which will indicate that the consideration of district heating policies should be taken account of in the preparation of County Development Plans	Q4 2021	DHLGH	DECC, District Heating Steering Group

Action	191	Identify appropriate financing mechanism to support the delivery of district heating projects		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Examine the potential, including considering the policy and regulation options that might be used, for attracting private sector investment for district heating	Recommendations in relation to potential private investment options	Q4 2022	DECC	District Heating Steering Group

Action	192	Assess the viability of district heating systems within higher density urban/peri-urban developments through a demonstration project		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Complete Feasibility assessment for small scale efficient district heating system	Assessment of relevant LDA projects for suitable pilot project	Q1 2022	LDA	DHLGH, DECC, DLRCC, DCC
Implement pilot small scale efficient district heating system subject to feasibility study outcomes	Commence development of pilot LDA project	Q4 2022	LDA	DHLGH, DECC, DLRCC

### Geothermal Heating

Action	193	Develop a policy and regulatory framework for geothermal energy to support its use as a secure, environmentally sustainable, and cost-effective source of renewable energy		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Support policy development through targeted research into Ireland's geothermal energy potential for both heating and cooling	Deep temperature maps	Q4 2021	GSI	Government Departments, Agencies, Industry, NGOs, General Public
Publish a draft policy statement on geothermal energy exploration for public consultation	Publish Draft Policy Statement on Geothermal Energy for Public Consultation	Q4 2021	DECC	General Public, Statutory Consultees, Environmental NGOs, Industry
Complete SEA/AA	Publication of the SEA Statement and final AA Natura Impact Assessment	Q2 2022	DECC	Statutory Consultees
Finalise policy statement	Policy statement finalised, subject to Government approval	Q2 2022	DECC	Government Departments
Prepare supporting legislation, subject to Government and Oireachtas approval	Legislation in place	Q4 2023	DECC	General Public, Statutory Consultees, Environmental NGOs, Industry

## Built Environment

### Standards for New Buildings & Renovations

Action	194	Undertake regulatory review of cost optimal performance requirements for Part L (Conservation of Fuel and Energy) of the Building Regulations		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Support a culture of competence and compliance with the Building Regulations by placing the Construction Industry Register Ireland (CIRI) on a statutory footing	CIRI placed on a statutory footing	Q1 2022	DHLGH	DETE
Complete 2023 Cost Optimal study to identify cost optimal performance for NZEB dwellings and major renovations to take account of developments in supply chain	Publication of cost optimal calculations	Q1 2023	DHLGH	
Effectively ban the installation fossil fuel boilers in new homes	Fossil fuel boilers in new homes effectively banned	Q4 2023	DHLGH	SEAI
Subject to results of 2023 cost optimal study, review the building regulations requirements for new dwellings and major renovations to existing buildings	Legislation	Q4 2025	DHLGH	



### Promoting the Uptake of Low Carbon Construction

Action	195	Support the current review by the European Commission of the Construction Products Regulation and proposed implementation of Basic Works Requirements 7+ for sustainability of construction products		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Monitor any revision by the European Commission to the Construction Products Regulation which will address environmental aspects of construction products	EU Regulation	Every Q4	DHLGH	
Support the European Commission in correction, completion and renewed adoption of technical specifications adopted under the Construction Products Regulation	Revised EU mandates for Harmonised Technical Specifications	Every Q4	DHLGH	NSAI

Action	196	Develop a framework methodology and certification scheme for products, as an essential step towards implementing a performance-based approach on a phased basis for measuring and limiting the embodied carbon emissions of building projects and construction products		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Support research, development, and innovation into low carbon construction in the third level sector	Include in SEAI RDD research calls	Q2 2022	SEAI, CSG	DHLGH, DETE, DPER, NSAI,
Identify the most common low-carbon construction products and techniques likely to be used in Ireland	Product List	Q1 2024	NSAI	DHLGH, DETE, SEAI, IGBC, CIF
Review existing European Standard (EN) and Irish Standard (IS) standards and, in consultation with stakeholders, identify opportunities for addressing low carbon construction techniques and make recommendations regarding prioritisation	Standards Review Report and recommendations	Q2 2024	NSAI	DHLGH

Action	197	Work with industry stakeholders to increase the use of low carbon materials, taking into account international best practice		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop a roadmap to promote greater use of lower-carbon building material in construction	Roadmap	Q1 2022	OPW	CSG, IGBC, DAFM, Building specifiers, EI, Forest Industries Ireland, RIAI, SEAI, DETE
Provide training to the construction sector in the use and installation of low carbon technologies and materials	Training and education	Q3 2022	SOLAS	NSAI, DECC, HEA, DHLGH, Engineers Ireland, IGBC, RIAI, SCSi

Action	198	Develop an embodied carbon building rating calculation methodology			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Examine life cycle analysis and embodied carbon emissions in buildings to compare the use of sustainable materials		Publication of Life Cycle Analysis report	Q2 2023	SEAI	DECC, DHLGH
Design a calculation methodology for the overall embodied carbon emissions in buildings using typical construction materials		Standard Calculation Methodology	Q2 2024	SEAI	DECC, SEAI, IGBC, RIAI, NSAI, DHLGH, EPA
Develop a database of all construction materials and their embodied carbon emissions		Database developed subject to review of Construction Products Regulation	Q3 2024	SEAI	DECC, SEAI, IGBC, RIAI, NSAI, DHLGH, EPA
Publish a draft embodied carbon emission building Rating scheme, similar to the existing Building Energy Rating system		Embodied Carbon Rating System	Q2 2025	SEAI	DECC, SEAI, IGBC, RIAI, NSAI, DHLGH, EPA
Publish software to calculate embodied carbon emissions in buildings		Software Release	Q4 2025	SEAI	DECC, SEAI, IGBC, RIAI, NSAI, DHLGH, EPA

Action	199	Support the development of a tool for early design stage comparative analysis of embodied carbon in typical Irish construction typologies			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Liaise with stakeholders & agree launch and presentation strategy		Publish tools and launch	Q4 2021	LDA	DHGLH, EPA, IGBC

## Built Environment

Action	200	Design and construct two exemplar public sector buildings using alternative construction techniques and materials, and monitor their performance			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Scope alternative construction materials and techniques most suitable for use in pilot construction projects	Scoping report and recommendation	Q2 2022	OPW,	DAFM, Building Specifiers, EI, Forest Industries Ireland, RIAI, SEAI	
Identify two public sector construction projects (one new build and one fit-out) that will use low-carbon alternatives to traditional construction materials	Identification of buildings and construction plans for each	Q3 2022	OPW	DPER, DECC, DHLGH, LDA, HSE, Local Authorities, D/Education	
Design both buildings and bring to tender	Tender documents	Q3 2023	OPW	DPER, DECC, DHLGH, LDA, HSE, Local Authorities, D/Education	

Action	201	Pilot project to assess the adaptive re-use potential of existing traditionally built structures as residential accommodation			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Development of design options and assessment of impact of various proposed technical solutions on a suitable pilot LDA project. Include assessment of impacts including embodied carbon offset	Publish study of findings of research	Q4 2022	LDA	DHLGH	

## Built Environment

### Driving Demand Reduction

Action	202	Evaluate potential for further emissions savings through changing consumer behaviour to lower household heat demand		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Undertake analysis to evaluate further abatement potential, considering need to avoid double-counting of emissions savings and behaviour change opportunities in existing and planned awareness initiatives	Report identifying additional abatement potential	Q2 2022	SEAI	

### Adaptation

Action	203	Develop specific climate maps and data for use in building design to enhance resilience in support of climate change adaptation		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Produce driving rain intensity map	Driving rain intensity map	Q2 2022	DHLGH - Met Éireann	NSAI, SEAI
Produce building standard temperature and snow loads maps change	Building standard temperature and snow loads maps change	Q3 2022	DHLGH - Met Éireann	NSAI, SEAI
Produce building standard short duration rainfall map	Building standard short duration rainfall map	Q4 2022	DHLGH - Met Éireann	NSAI, SEAI
Develop specific building standards climate reference years to support decisions related to overheating risk in buildings	Specific building standards climate reference years to support decisions related to overheating risk in buildings	Q4 2022	DHLGH - Met Éireann	NSAI, SEAI

Action	204	Assess and monitor climate impacts on heritage sites and identify threatened heritage sites			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Undertake monitoring of climate change and its impacts at selected heritage properties		Selection of 2-3 sites for weather station installation	Q1 2022	DHLGH	Met Eireann, OPW, LAs
Carry out a condition assessment of a sample of heritage sites/properties in public ownership to establish a baseline for heritage resources from which change can be measured		Selection of sites for condition assessments and digital imaging	Q1 2022	DHLGH	OPW, LAs
Monitor ongoing maintenance and repair works undertaken and emergency response		Statistics relating to climate-change impacts compiled and potential responses for heritage in public ownership outlined	Q1 2022	DHLGH	OPW, LAs

## Built Environment

Action	205	Cooperate actively and share knowledge with international partners and climate-proof planning procedures for heritage properties		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Establish working group(s) of stakeholders to pool information, promote research and drive the implementation of the planned agree terms of reference	Working group(s) established; regular meetings held; terms of reference agreed	Q4 2021	DHLGH	DECC, CAROs, B&AH Advisory Group
Develop Memoranda of Understanding with Northern Ireland and Welsh governments	Finalisation of Memoranda of Understanding on Cultural Heritage and Climate Action	Q1 2022	DHLGH	D/Communities NI, Welsh government (Cadw)
Development of guidelines/recommendations for local authorities	Published guidelines/ recommendation. Short report on resilience of heritage resources under current climate conditions	Q3 2022	DHLGH	CAROs, local authorities
Support local authorities and other sectors to develop climate vulnerability assessments of heritage sites	Coordinated approach to vulnerability assessment of heritage sites agreed	Q4 2022	DHLGH	OPW, LAs

Action	206	Build public awareness of the risks of climate change (in general and for heritage) and of efforts to mitigate it and adapt to it		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Assess existing communication gaps and strategy for public engagement	Short report on public engagement activities held and social media activity	Q4 2022	DHLGH	B&AH Advisory Group, LAs, CHERISH

## Built Environment

Action	207	Integrate climate-change adaptation into all heritage-management plans and policies as these are updated			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Introduce climate-change adaptation into sectoral policy and conservation planning at all levels		Climate change policies included in Heritage Ireland 2030; National Policy for Architecture; Vernacular Strategy and grant schemes	Q4 2021	DHLGH	OPW, Las



## National Retrofit Plan

## (i) Driving Demand and Activity

Action	208	Implement a national awareness and demand generation campaign for residential retrofit			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Promotional campaign will operate throughout Q4 2021		Campaign operational	Q4 2021	SEAI	DECC
Update the SEAI website to allow homeowners to more easily determine the right grant scheme for their circumstances and implement promotional campaign		Website updated	Q4 2021	SEAI	DECC
Carry out Community Based Social Marketing events		Targeted marketing campaign	Q3 2022	SEAI	DECC

Action	209	Provide a personalised roadmap for homeowners on how to upgrade their home to a BER B2 in the new BER advisory report			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		BER advisory reports	Every Q4	SEAI	DECC
Launch a new interactive BER tool for homeowners		New BER tool	Q2 2022	SEAI	DECC

Action	210	Develop a network of retrofit One-Stop-Shops to simplify the customer journey and enhance consumer confidence			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Introduce a system of registration for retrofit One-Stop Shops		Registration system established	Q1 2022	SEAI	DECC

Action	211	Launch a new SEAI National Retrofit Scheme (One Stop Shop Service) to drive the delivery of B2 retrofits with heat pumps and facilitate year-round working			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		New scheme launched	Q1 2022	SEAI	DECC
Streamline SEAI processes and administration to make the grant process easier		SEAI grant processes streamlined	Q1 2022	SEAI	DECC

Action	212	Utilise Sustainable Energy Communities to drive Community Activation			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Launch a call for projects under the Communities Energy Grant Scheme		Call for projects launched	Q4 2021	SEAI	DECC
Establish a National (and Regional) Sustainable Energy Communities Forum and National Steering Group with membership from the Network, SEAI, DECC and Relevant Supporting Departments and Organisations with the mandate to take learnings and ideas from the Network and recommend local and national actions that will assist in accelerating their rollout		Forum and work programme established	Q2 2022	SEAI	DECC
Launch a call for smaller projects under the Communities Energy Grant Scheme for SECs		Call for projects launched	Q2 2022	SEAI	DECC
Increase the number of Sustainable Energy Communities to 680 by end 2022		Increased number of SECs	Q4 2022	SEAI	DECC

Action	213	Support those least able to afford to retrofit		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
SEAI grant support will be available for retrofits of rental properties to help address the split incentive issue	Grant supports available	Ongoing	SEAI	DECC
Finalise recommendations on the implementation of changes to ensure that the Warmer Homes Scheme better targets those most in need	Implement any necessary changes	Q1 2022	DECC	
Launch a pilot to inform the appropriate approach to increasing the number of B2 upgrades and heat pump installed under the Warmer Homes Scheme	Pilot operational	Q1 2022	SEAI	DECC
Complete a review of the implementation of the Strategy to Combat Energy Poverty to inform next steps in relation to the development of a new strategy	Review completed	Q1 2022	DECC	
Warmth and Wellbeing research study completed	Research completed	Q1 2022	DECC	SEAI, D/Health, HSE

Action	214	Rollout of Social Housing National Retrofitting Programme in 2021 with retrofitted properties required to reach BER B2 or equivalent			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop a roadmap for Local Authority housing as part of retrofit works to achieve cost optimal performance by 2030, subject to funding, for publication in Climate Action Plan 2022		Roadmap for Local Authority social housing to be included in National Retrofit Plan	Q4 2022	DHLGH	
Deliver retrofits to approximately 2,400 local authority homes		Local authority homes retrofitted	Q4 2022	DHLGH	

Action	215	Launch a new Energy Efficiency Obligation Scheme			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		New Energy Efficiency Obligation Scheme (EEOS) operational	Q1 2022	DECC	SEAI

### (ii) Financing and Funding Models

Action	216	Allocate funding to residential/community retrofit from Departmental capital envelope in line with National Development Plan funding trajectory			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Funding for retrofit available	Q1 2023	DECC	DPER

Action	217	Carry out research to further understand the needs of homeowners in relation to financing retrofit			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Research completed	Q1 2022	SEAI	DECC, SBCI, D/Fin

Action	218	Introduce a residential retrofit loan guarantee scheme			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action, including access for landlords to help address the split incentive issue		Scheme launched	Q3 2022	DECC	SBCI, D/Fin, SEAI

Action	219	Pursue funding through EU initiatives as appropriate			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Funding opportunities identified and pursued as appropriate	Every Q4	DECC	DPER, SEAI

Action	220	Explore the potential for new tax measures to support retrofit			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Potential for tax measures explored	Q4 2022	DFIN	DECC, SEAI

### (iii) Supply Chain, Skills and Standards

Action	221	Publish a forecast of the skills required to deliver on our retrofit target as part of the Expert Group on Future Skills Needs report on "Skills for Zero Carbon- The Demand for Renewable Energy, Residential Retrofit and Electric Vehicle Deployment Skills to 2030"			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Report published	Q4 2021	DETE	DECC, SEAI, DFHERIS

Action	222	Deliver the necessary increase in upskilling, reskilling and apprenticeship supports for residential retrofitting			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Roll out NZEB and Deep Retrofit contractor courses nationwide (specification developed with Waterford and Wexford Education Training Board)		Courses being provided in Education and Training Boards (ETBs) nationwide	Q4 2021	DFHERIS	SOLAS, ETBs
Ensure retrofitting is on the priority skills needs list for Springboard+ and Human Capital Initiative programmes		Funding provided in 2022	Q1 2022	DFHERIS	HEA
Provide blended learning and training opportunities for retrofit skills to allow greater flexibility and geographic reach		Blended learning opportunities for retrofit available	Q2 2022	DFHERIS	SOLAS, ETBs
Bring total number of centres of excellence to support the national expansion of retrofit and Nearly Zero Energy Building (NZEB) courses for new and existing construction workers to a minimum of 5		5 centres of excellence in place	Q4 2022	DFHERIS	SOLAS, ETBs
Reduce COVID-19 related backlogs on apprenticeships		Backlogs reduced	Q4 2022	DFHERIS	SOLAS, HEA, ETBs
Continue the NZEB train the trainer programme to ensure that there is an appropriate number of skilled trainers		Train the trainer programme continued to 2022	Q4 2022	DFHERIS	SOLAS, ETBs, HEA
Expand the number of apprenticeship places available in line with the Action Plan for Apprenticeships		Increased number of apprenticeship places available	Q4 2025	DFHERIS	SOLA, HEA, ETBs

## National Retrofit Plan

Implement skills related recommendations for domestic retrofit from the Expert Group on Future Skills Needs (EGFSN) "Skills to Enable the Zero Carbon Economy to 2030"	Recommendations implemented	Q4 2030	DFHERIS	DECC, DHLGH, D/Transport, DETE, SOLAS, SEAI
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Action	223	Introduce initiatives to ensure the required number of BER assessors		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Introduce Initiatives to increase the numbers of BER assessors	BER assessors increased	Q3 2022	SEAI	DECC

Action	224	Launch a study into the Heat Loss Indicator criteria for the installation of heat pumps		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action	Study launched	Q4 2021	SEAI	DECC

Action	225	Publish new Standards and Guidance Documents for retrofit		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Publish new guidance for the retrofitting of traditional buildings (See also Action 131)	Guidance published	Q1 2022	DHLGH	DECC, SEAI, Heritage Council, OPW, DES
Update the Energy Efficient Retrofit of Dwelling (SR54) Guidance Document	Guidance updated	Q3 2022	NSAI	SEAI; industry stakeholders
Develop a certification scheme for SR54 Energy Efficient Retrofit of Dwellings	Certification scheme in place	Q2 2023	NSAI	SEAI, industry stakeholders

## National Retrofit Plan

Action	226	Help to address the split incentive issue for rental properties			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implement Minimum BER standards, where feasible, for private rental properties, commencing in 2025, in line with Housing for All Strategy		Minimum BER standards for rental properties implemented	Q4 2025	DHLGH	DECC, SEAI

### (iv) Structures and Governance

Action	227	Establish a cross-Departmental group to oversee implementation of the National Retrofit Plan			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Group formed	Q1 2022	DECC	DHLGH, SEAI, DFHERIS and others

Action	228	Further develop and resource the SEAI as the National Retrofit Delivery Body			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		SEAI further developed and resourced	Every Q4	SEAI	DECC, DPER

Action	229	Enhance the collection and monitoring of retrofit activity data delivered with Government support			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Consolidate the data in order to determine the overall current level of Government supported retrofit		Enhanced reporting on Government supported retrofit	Every Q4	SEAI	DECC



Action	230	Enhance the capacity of local authorities to deliver their retrofit programme according to budgets allocated			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Capacity of local authority retrofit functions enhanced	Every Q4	DHLGH	Local Authorities

## Transport

Action	231	Continue the improvement and expansion of the Active Travel and Greenway Network			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop the National Cycling Manual		Publication of revised advice manual infrastructure for Active Travel	Q1 2022	NTA	D/Transport, TII & other relevant stakeholders, DHLGH
Establish a coordination group to assist in the development and cohesion of various cycling infrastructure standards, with a view to enhancing cyclist safety		Coordination group established to provide ongoing recommendations and oversight	Q4 2021	D/Transport	NTA, TII, CCMA
Promote and approve the delivery of Greenway projects as defined by the Minister		Publish a code of practice for Greenway Delivery	Q1 2022	TII	D/Transport
Development of TII technical standards for Greenway development and Active Travel		Publication of TII Technical standards for Greenway development and Active Travel projects	Q2 2022	TII	D/Transport, NTA & other relevant stakeholders, DHLGH
Develop Cycle Network Plans for each Local Authority		Completed cycle network plans for each county Publication of Plans	Q3 2022	NTA	Local Authorities, D/Transport and TII
Each Local Authority to assess their road network and identify where additional space can be reallocated to pedestrians and cyclists		Identify roads and streets where space is intended to be reallocated to pedestrian and cycling use	Q4 2022	Local Authorities	NTA, D/Transport
Deliver major rural Active Travel projects outside of Dublin, the Greater Dublin Area and the four regional cities		Seek planning approval for 4 active travel projects	Q4 2023	TII	Local Authorities, NTA

Action	232	Develop a coherent and connected National Cycle Network Strategy		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Complete consultation on a draft National Cycle Network strategy to support development of a strategic national network of signed, mainly segregated or low-traffic routes primarily for cycling but also accessible and attractive for those walking, scooting, or wheeling	Complete Public consultation process for drafting strategy	Q2 2022	TII	D/Transport, NTA, Local Authorities, Other key stakeholders: Waterways Ireland, Fáilte Ireland, Trails Office, Sports Ireland etc.
Publish Strategy	Strategy published	Q4 2022	TII	

Action	233	Construct an additional 1,000km of cycling and walking infrastructure			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Create Dublin “Bike Life” cycle report		Publish report	Q2 2022	NTA	D/Transport, Local Authorities
Create regional cities “Bike Life” cycle report		Publish report	Q4 2023	NTA	D/Transport, Local Authorities
Complete Greater Dublin Area Network		500 km of cycling and walking infrastructure delivered	Q4 2025	NTA	D/Transport, Local Authorities, DHLGH
Complete Regional Cities Network		275 km of cycling and walking infrastructure delivered	Q4 2025	NTA	D/Transport, Local Authorities, DHLGH
Complete Towns and Villages network		100 km of cycling and walking infrastructure delivered	Q4 2025	NTA	D/Transport, Local Authorities
Enhanced links between towns and villages		50 km of cycling and walking infrastructure delivered	Q4 2025	TII, NTA	D/Transport, Local Authorities

Action	234	Encourage an increased level of modal shift towards Active Travel (walking and cycling) and away from private car use			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Ensure that an equivalent of 20% of the Transport Capital Budget is dedicated to Active Travel and Greenways (walking and cycling)		An equivalent of 20% of the total 2020 transport capital budget (approximately €360 million per annum) ringfenced for expenditure on Active Travel and Greenways	Annually to 2025 at least  Annual progress reporting Q4	D/Transport	DPER, NTA, TII
Publish the NTA's 5-Year Walking and Cycling Delivery Plan		Publication of Plan	Q4 2021	NTA	D/Transport
Increase the number of dedicated Active Travel Staff in Local Authorities around the country		An additional 248 staff recruited in Local Authorities around the country dedicated to delivering Active Travel infrastructure	Q4 2022	NTA	D/Transport, DHLGH, Local Authorities, TII

Action	235	Accelerate sustainable mobility plans for schools			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Expansion of Cycle Right Training in primary and post-primary schools		An increase of 5,000 pupils per annum receiving Cycle Right Training until a target of 45,000 pupils per annum is reached	2026  Annual progress reporting Q1	Cycling Ireland	D/Transport
Rollout of Safe Routes to School Infrastructure Programme		Commence active travel infrastructure projects in 170 schools	Q4 2022	NTA	Local Authorities, D/Transport, An Taisce Green Schools
Complete review of the School Transport Scheme and identify measures to improve sustainability of school transport system		Identification of measures to improve sustainability of School Transport system	Q4 2022	D/Education	D/Transport, DPER, DECC, NCSE, Bus Éireann, NTA

Action	236	Legislate to improve the Active Travel environment in urban centres			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Introduce a new road safety strategy focused on reducing death and injuries of pedestrians and cyclists		Publication of Road Safety Strategy 2021-2030	Q4 2021	RSA	D/Transport
Publish amended legislation which increases fixed notices for parking on a footpath, cycle track or bus lane		SIs enacted	Q2 2022	D/Transport	Office of Parliamentary Council, Local Authorities, An Garda Síochána

Action	237	Enable use of e-scooters and e-bikes			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Legislate for e-scooters		Publish regulation on e-scooter use/technical standards and commence corresponding provisions in the Road Traffic Bill	Q4 2022	D/Transport	
Legislative provisions for Powered Personal Transporters (PPTs) included in Road Traffic Miscellaneous Provisions Bill		Legislation	Q4 2021	D/Transport	

Action	238	Publish the new Sustainable Mobility Policy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Publication of the Policy	Q1 2022	D/Transport	NTA, DHLGH, transport operators, Local Authorities, TII

Action	239	Commence delivery of BusConnects Network Redesign Dublin			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implementation of redesigned bus network (Phase 2)		Phase 2 implemented	Q4 2021	NTA	D/Transport
Implementation of redesigned bus network (Phases 3 to 5)		Phases 3, 4 and 5 implemented	Q1 2023	NTA	D/Transport

Action	240	Commence delivery of BusConnects Network Redesign in Cork, Galway, Limerick & Waterford			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete the public consultation for bus network redesign in Cork		Completed consultation stage of the network design for Cork	Q2 2022	NTA	D/Transport, Bus Éireann
Carry out public consultation in Galway		Completed network design for Galway	Q3 2022	NTA	Bus Éireann
Carry out public consultation in Limerick		Completed network design for Limerick	Q4 2022	NTA	Bus Éireann
Finalise the revised network of bus services for Cork		Completed bus network spec redesign for Cork	Q1 2023	NTA	D/Transport, Bus Éireann
Carry out public consultation in Waterford		Completed network design for Waterford	Q1 2023	NTA	Bus Éireann
Finalise the network of services for Galway		Completed network specs for Galway	Q1 2023	NTA	D/Transport, Bus Éireann
Finalise the network of services for Limerick		Completed network specs for Limerick	Q2 2023	NTA	D/Transport, Bus Éireann
Finalise the network of services for Waterford		Completed network specs for Waterford	Q3 2023	NTA	D/Transport, Bus Éireann



Action	241	Commence delivery of BusConnects Core Bus Corridor Infrastructure Works			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete the statutory planning consents for 12 Radial Core Bus Corridor Schemes		Statutory planning consent for 12 Core Bus Corridor Schemes completed	Q1 2023	NTA	An Bord Pleanála

Action	242	Commence delivery of BusConnects in Cork (Core Bus Corridor Infrastructure Works)			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Commence initial public consultation on proposals for Core Bus Corridors in Cork		Initial design proposals for each corridor published for public consultation	Q1 2022	NTA	Cork City Council
Commence second round of public consultation on proposals for Core Bus Corridors in Cork		Design proposals for each corridor published for public consultation	Q4 2022	NTA	Cork City Council

Action	243	Commence delivery of BusConnects in Limerick (Core Bus Corridor Infrastructure Works)			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Appoint design teams to undertake preliminary planning for Core Bus Corridor in Limerick		Appointment of design teams to undertake feasibility analysis and route options assessments	Q3 2022	NTA	Local Authorities (Limerick City and County Council, Clare County Council)
Commence initial public consultation on proposals for Core Bus Corridors in Limerick		Initial design proposals for each corridor published	Q3 2023	NTA	Local Authorities (Limerick City and County Council, Clare County Council)

Action	244	Commence delivery of BusConnects in Galway (Core Bus Corridor Infrastructure Works)			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Submit planning consent application for Cross City Link, a central part of BusConnects Galway		Statutory planning consent application submitted for Cross City Link	Q1 2022	Galway City Council	NTA, D/Transport,
Obtain statutory planning consent for Cross City Link		Submit grant of planning consent	Q1 2023	Galway City Council	An Bord Pleanála, NTA, D/Transport
Commence construction of Cross City		Award of construction contract	Q4 2023	Galway City Council	An Bord Pleanála, NTA, D/Transport
Submit planning consent application and obtain planning consent for Dublin Road Corridor scheme		Statutory planning consent for Dublin Road Corridor scheme submitted	Q4 2023	Galway City Council	NTA, D/Transport

Action	245	Implement an enhanced rural transport system through delivery of Connecting Ireland Rural Mobility Plan			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Carry out a national public consultation for Connecting Ireland		Launch public consultation	Q4 2021	NTA	D/Transport, Local Link, Local Authorities
Identify the potential for integration of non-emergency health transport services with the Local Link services managed by the NTA (funding required) by conducting and monitoring a pilot project in Leitrim to deliver non-emergency health transport services		Pilot commenced	Q4 2021	D/Transport	NTA, D/Health, DCEDIY, HSE
Complete the preliminary business case supporting Connecting Ireland		Completed and approved preliminary business case	Q1 2022	NTA	D/Transport

## Transport

Finalise the network of services	Complete network specification	Q1 2022	NTA	D/Transport, Local Link, Local Authorities
Commence implementation of first phase of services	Contracts awarded for first tranche of services tendered	Q4 2022	NTA	D/Transport, Local Link, Other Operators
Develop plans for bus services in Carlow	Finalise plans and run tender competitions for bus service in Carlow	Q1 2022	NTA	D/Transport
Develop plans for bus services in Mullingar	Finalise plans and run tender competitions for bus service in Mullingar	Q4 2023	NTA	D/Transport
Complete and monitor the Leitrim pilot	Pilots completed	Q4 2024	NTA	D/Transport
Develop plans for bus services in Portlaoise	Finalise plans and run tender competitions for bus service in Portlaoise	Q4 2024	NTA	D/Transport

Action	246	Commence delivery of DART+ Programme and continue heavy rail fleet investment			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Award framework for electric and battery electric DART fleet and place first order		Order placed for 6 half-length DART electric train sets and 13 half-length DART battery-electric train sets	Q4 2021	Iarnród Éireann	NTA, D/Transport
Seek Railway Order for DART + West		Railway order application lodged	Q2 2022	Iarnród Éireann	NTA, D/Transport, ESB Networks
Introduce additional 41 Inter City Rail Cars		Delivery and entry into service of all 41 vehicles	Q4 2023	Iarnród Éireann	NTA, D/Transport

Action	247	Commence delivery of MetroLink			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Submit railway order application for MetroLink		Railway order application lodged	Q2 2022	TII	NTA, D/Transport, ESB Networks
Grant of statutory planning approval for MetroLink and commence procurement process for PPP contract for systems and operations		Statutory Railway Order granted Issue of Contract Notice in OJEU	Q2 2023	TII	NTA, An Bord Pleanála, D/Transport,

Action	248	Introduce National Youth Travel Card on a phased basis			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Introduction of National Youth Travel Card	Q3 2022	DCEDIY	D/Transport, NTA

## Transport

Action	249	Expand Smarter Travel Workplaces Programme			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Invite all government bodies and large workplaces that are not current partners to join the programme	Letter from NTA / D/Transport to relevant parties to invite participation		Q1 2022	NTA	D/Transport

Action	250	Examine the role of demand management measures in Irish cities, including low emission zones and parking pricing policies			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Publish findings of the Demand Management study	Published report		Q4 2021	D/Transport	
Based on findings of study identify regulatory barriers to Demand Management measures and develop proposals to address them	Publication of high-level document		Q4 2022	D/Transport	

Action	251	Publish the impact of speed and speed limits on greenhouse gas emissions and pollutants			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Publish results and identify regulatory barriers and develop proposals to address them	Publish report		Q1 2022	D/Transport	

Action	252	Continue rollout of variable speed limits/dynamic traffic management infrastructure on the M50 Motorway to increase safety and reduce congestion			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
High-level scoping for potential introduction on other motorways / national roads		Published Scoping Map	Q2 2022	D/Transport	TII
Legislate to allow TII to set enforceable speed limits		Legislation enacted	Q2 2022	D/Transport	TII
Continue to roll out dynamic traffic management infrastructure to provide for variable speed limits on the M50 motorway		Variable speed limits infrastructure in place on the M50 increase safety and reducing congestion	Q4 2022	TII	D/Transport, An Garda Síochána, RSA

Action	253	Conduct review of Community Car Scheme			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Undertake review to consider expansion of scheme		Report to Minister	Q1 2022	D/Transport	NTA

Action	254	Require all cities with a population exceeding 75,000 to produce a sustainable transport plan for review by National Transport Authority and D/Transport			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Finalise and publish sustainable transport plan for Limerick		Transport plan published	Q1 2022	Local Authorities	D/Transport, NTA

Action	255	Balance better movement priorities within urban areas to transition the built environment and public domain from one that is “vehicle centred” to being “people centred” to align with the goal of net zero by 2050			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop section 28 Guidelines for Planning Authorities on Sustainable and Compact Settlement Guidance (SCSG), including guidance on connectivity and ease of movement for sustainable modes and place making		Publish section 28 Guidelines	Q2 2022	DHLGH	Local Authorities
Ongoing implementation and further development of the Design Manual for Urban Roads and Streets		Implementation of training and supplementary material	Q2 2023	D/Transport	DHLGH, Local Authorities, TII, NTA

Action	256	Ensure all metropolitan transport strategies reflect Climate Action Plan sectoral emission reduction targets			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review Transport Strategy for the Greater Dublin Area		Updated Strategy to reflect CAP emission reduction targets	Q1 2022	NTA	D/Transport
Develop Limerick Shannon Metropolitan Area Transport Strategy		Completed Strategy to reflect CAP emission reduction targets	Q1 2022	NTA	D/Transport, Limerick City and County Council, Clare County Council, TII
Develop Waterford Metropolitan Area Transport Strategy		Completed Strategy to reflect CAP emission reduction targets	Q3 2022	NTA	D/Transport, Waterford City and County Council, TII
Review Galway Transport Strategy		Updated Strategy to reflect CAP emission reduction targets	Q1 2023	NTA	D/Transport, Galway City Council, Galway County Council, TII

Action	257	Review and, if necessary, develop a regulatory framework for low-emission zones			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review primary and secondary legislation with a view to ensuring that local authorities have the necessary powers to introduce low- and zero-emission traffic zones		Completed review	Q2 2022	D/Transport	Local Authorities, An Garda Síochána, NTA
Based on findings of review, amend legislation if and where necessary		Any necessary SI amending the Principal Traffic and Parking Regulations stamped, signed, and commenced OR any necessary amendment to primary legislation drafted for inclusion in the next Road Traffic Bill	Q1 2023	D/Transport	Office of Parliamentary Counsel



Action	258	Advance Demand Management Measures			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Carry out annual sustainable transport satisfaction surveys		Published report	Annually in Q4	NTA	D/Transport, TII
Identify a pathway for the implementation of demand management measures		Identification of pathway	Q4 2022	D/Transport	NTA, Regional Assemblies
Develop a Memorandum of Understanding for the provision of Transport Planning, analysis and modelling to support policy development to reduce transport emissions		Signed MoU with NTA	Q4 2021	NTA	D/Transport, TII
Review and update the National Household Travel Survey to 2022 and the NTA port and airport passenger surveys		Published reports and Publication of data	Q4 2022	NTA	D/Transport, CSO, Port and Airport authorities

Action	259	Explore potential of road-user charging measures through the Better Road User Charging Evaluation (BRUCE) study			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continued stakeholder engagement, including publication of Business Cases, to explore and progress the potential of road user charging measures in Ireland as a means of managing demand, and generating a more sustainable funding stream		Publication of Draft Implementation Plan	Q2 2023	TII	D/Transport, NTA

Action	260	Increase provision of park and ride/share at transport interchanges			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Introduction of Park and Share site for the M1	Park and Share site introduced for the M1		Q4 2021	TII	NTA, Local Authorities
Commence implementation of Park and Ride Strategy for the Greater Dublin Area	Strategy implementation commenced		Q1 2022	NTA	Iarnród Éireann, Local Authorities, TII, Transport Operators

Action	261	Deliver public transport corridors providing prioritised bus lanes on relevant national radial routes to the M50			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Commence implementing Bus priority measures with associated dynamic traffic management on the existing national road routes approaching the M50	Commence the rollout of public transport corridors providing prioritised bus lanes on relevant national radial routes to the M50		Q4 2025	TII	NTA

Action	262	Deliver sustainable bus priority measures on the National Road Network			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Update design standards to facilitate Bus priority measures with associated dynamic traffic management on the national road network	Publication of updated TII design standards		Q1 2022	TII	NTA

Action	263	Publish new investment framework for land transport in Ireland			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Complete public consultation and publish framework	Publish final framework reflecting comments received during public consultation		Q4 2021	D/Transport	

## Transport

Action	264	Award a contract to support the replacement of 78,000 lights in the southwest region as part of the national public lighting energy efficiency project and progress remaining 202,000			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete the tender process and award contract		Contract awarded	Q1 2022	D/Transport	TII
Complete a retrofit of the remaining public lighting network 202,000 lights to energy efficient LED lights		Tenders issued	Q2 2022	CCMA	D/Transport, HFA, Local Authorities/ RMO, SEAI

Action	265	Develop roadmap for review and transition away from fossil fuel tax subsidies in transport sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review existing fossil fuel subsidies		Analysis of the cost and impact of existing fossil fuel subsidies	Q3 2023	DFIN	D/Transport, DECC
Adopt roadmap at Government level to transition away from fossil fuel subsidies		Based on the outcome of the Review, a Roadmap to transition away from fossil fuel subsidies	Q1 2024	DFIN	D/Transport, DECC, DAFM

Action	266	Examine options for the equalisation of diesel and petrol excise rates over an appropriate period			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Equalisation options (including multi-year models) will be assessed and presented for decision/discussion	Q3 2022	DFIN	D/Transport
Ongoing Monitoring and review		Tax Strategy Group paper examining equalisation issue	Every Q3	DFIN	D/Transport

Action	267	Ensure our regulatory regime for buildings requires the installation of EV charging infrastructure			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Provide for EV Charging Infrastructure in dwellings with parking spaces within curtilage		Regulation completed	Q2 2022	DHLGH	D/Transport, DECC

Action	268	Transition Dublin Metropolitan PSO bus services to low/zero emission bus fleet			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Award framework for the purchase of double deck electric buses and place first order		Order for 100 buses placed	Q4 2021	NTA	D/Transport
Introduce hybrid buses into full service		219 buses in service	Q1 2022	NTA	D/Transport, Dublin Bus
Complete pilot of hydrogen fuel cell double deck buses and review performance.		Complete and publish a review of pilot findings	Q4 2022	NTA	D/Transport, Bus Éireann
Upgrade existing bus depots to facilitate electric buses		Depots ready to accept first order of electric buses	Q1 2023	NTA	D/Transport, Dublin Bus, ESB, ESB Networks

Action	269	Transition Cork, Galway, Limerick, and Waterford metropolitan area PSO bus services to low/zero emission bus fleet			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Award framework for the purchase of double deck electric buses and place first order		Order for 20 electric double deck buses placed	Q4 2021	NTA	D/Transport
Introduce hybrid buses into full service in Galway and Limerick		61 buses in service	Q1 2022	NTA	D/Transport, Bus Éireann
Upgrade existing bus depots to facilitate electric buses		Depots ready to accept first order of electric buses	Q1 2023	NTA	D/Transport, Bus Éireann, ESB, ESB Networks

Action	270	Transition PSO town bus services to low-emission bus fleet			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Award framework for the purchase of single deck midi and short length buses and place first order		First order placed for short/midi electric buses	Q2 2022	NTA	D/Transport
Convert entire Athlone town bus service to electric buses		Commence pilot and trial of full conversion of Athlone town bus service to electric buses	Q4 2022	NTA	D/Transport, Bus Éireann, ESB Networks

Action	271	Transition PSO Local Link bus services to low-/zero- emission bus fleets			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Deploy two electric vehicle buses on the Dingle peninsula, Co. Kerry		Vehicles deployed	Q1 2022	NTA	D/Transport
Scope potential to roll out to other Local Link services and review contract arrangements for Local Link and rural services to determine opportunities for low emission bus fleet		Produce scoping report/map, and review contract arrangements and update accordingly	Q1 2023	NTA	D/Transport, Local Link Operators

Action	272	Develop a policy pathway to drive a significant ramp-up in passenger EVs and electric van sales and/or disincentivise fossil-fuelled passenger vehicles and vans			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Monitor and review recent vehicle tax reform in light of new emissions testing standards		Tax Strategy Group Papers and presented for budgetary decision/discussion	Every Q3 (TSG Paper) and Q4 (Budget)	DFIN	D/Transport
Consider the recommendations of the Electric Vehicle Policy Pathway Working Group		Letters sent from the EVPP Working Group to various Departments regarding their actions for formal consideration	Q4 2021	D/Transport	DECC, DHPLG, DFIN, DPER
Engagement to influence the direction of EU regulation regarding Internal Combustion Engine vehicles sales and CO2 emission performance standards		Campaign with aligned Member States calling for a regulatory approach to the phasing out of new fossil-fuelled cars and light vehicle sales in line with the objective of climate neutrality by 2050	Q4 2021	D/Transport	
Continue to support the greening of the taxi fleet		Incentives made available for BEV SPSVs	Q1 2022	D/Transport	NTA
Review zero-rate BIK for electric vehicles		Review 0% BIK for EVs	Q3 2022	DFIN	
Examine options for the introduction of an emissions based VRT and motor tax for LGVs and HGVs, taking account of the 10-year haulage strategy and other EU regulatory changes affecting the sector		Analysis of options to Introduce emissions based VRT and motor tax for LGVs and HGVs	Q4 2022	DFIN	

## Transport

Introduce emissions-based BIK (benefit-in-kind) charging structure provided for in Finance Act 2019	Commence emissions-based BIK structure	Q1 2023	DFIN	
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Action	273	Identify options to increase EV uptake to support the transition away from grant supports		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Reconvene the EVPP Steering Group to examine options including regulation and taxation etc. with a view to bringing recommendations to Government	EVPP Steering Group reconvened	Q1 2022	D/Transport	DFIN, DPER, DHPLG, DECC, Local Authorities

Action	274	Establish an Office for Low Emitting Vehicles to co-ordinate the implementation of existing and future EV measures and infrastructure		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Secure funding for an appropriately resourced and funded OLEV	Submit funding request	Q4 2021	D/Transport	SEAI, DPER

Action	275	Develop and launch an extensive communication and engagement campaign, whole of Government in coverage, to drive the availability and understanding of key information regarding EVs, tailored to household, business, and public sector consumers		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Roll out a communication and engagement strategy to drive EV uptake	Commence communication and engagement strategy	Q2 2022	D/Transport	SEAI, ESB Networks

Action	276	Enable greater EV infrastructure roll-out for passenger cars and vans			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Review planning guidelines for residential and non-residential parking locations for Electric Vehicle charging infrastructure and issue guidance to Local Authorities	Issue finalised Guidelines to Local Authorities	Q1 2022	DHLGH	ESB Networks	
Continue to support the delivery of the ESB Electric Vehicle High Power Charging Infrastructure Development Project	Continuing work on installing relevant infrastructure	Q4 2022	DECC	ESB	

Action	277	Develop a national infrastructure strategy to address on-street, location and fast charging infrastructure needs to stay ahead of demand, having particular regard to non-urban needs			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish national infrastructure strategy		Strategy published	Q1 2022	D/Transport	ESB Networks, DPER, SEAI

Action	278	Launch a Destination Charger Scheme to install publicly accessible EV charging infrastructure			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop and launch the scheme		Online application process open	Q1 2022	D/Transport	D/Transport, SEAI, ESB Networks



Action	279	Amend the Home Charger Grant Scheme to include apartments		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop a pilot scheme to model the benefits of installing EV infrastructure to agencies/housing associations	Pilot scheme launched	Q1 2022	D/Transport	DHLGH, ESB Networks
Review the pilot and amend the terms of the scheme as appropriate	Amendment of the terms of the Scheme	Q4 2022	D/Transport	DHLGH, ESB Networks

Action	280	Support the transition to electric vehicles in Gaeltacht communities through investment in EV infrastructure		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Establish fund to support the installation of electric car charging points at existing sports and recreational facilities across the Gaeltacht	EV charging points installed at sports and recreational facilities	Q1 2022	DTCAGSM	D/Transport, Local Communities
Encourage the inclusion of electric car charging points in applications for new sports and recreational facilities across the Gaeltacht	Update funding conditions and application forms to include investment in EV charging points	Q4 2022	DTCAGSM	D/Transport, Local Communities

Action	281	Identify measures to support the shift to 95,000 electric vans			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish an industry forum to encourage the uptake of electric vehicles as a form of communication /outreach to industry		Forum established	Q1 2022	D/Transport	SEAI, Industry stakeholders
Identify measures to support the transition to EV LGVs		Report to the Minister submitted	Q3 2022	D/Transport	SEAI, ESB Networks, NTA
Review of taxation measures for EV and ICE commercial vehicles that could incentivize uptake of EV LGVs		Review of taxation measures	Q4 2022	DFIN	D/Transport

Action	282	Set a roadmap for more LEVs in Public Sector Fleets			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Issue circular to all Local Authorities and Public Sector Bodies calling for the cessation of ICE vehicle procurement in the car and van fleets – with exceptions for certain vehicle categories		Circular issued	Q4 2021	DECC	Local Authorities, Public Sector Bodies, DPER

Action	283	Set out the planned level of biofuel use for the period to 2030			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Transpose the biofuel elements of the Renewable Energy Directive		Publish S.I	Q1 2022	DECC	D/Transport

Action	284	Rollout planned refuelling infrastructure			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Commission three CNG stations and further the progress of the remaining stations		A network of CNG stations, both private and public, serve primarily the Heavy-Duty Vehicle sector	Q4 2021	GNI	D/Transport
Commence the rollout of a further 21 stations planned as part of the Green Connect Project		Establishment of CNG stations commenced	Q4 2022	GNI	D/Transport, DHPLG

Action	285	Complete Strategic Rail Review to, inter alia, identify a pathway to appropriate decarbonisation of interurban rail service			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish Strategic Rail Review		Strategic Rail Review published	Q4 2022	D/Transport	Iarnród Éireann, NTA
Continue to support the delivery of the Irish Rail Hybrid Drive for Inter City Railcar Project		Commerce engine trial	Q1 2022	DECC	DECC, Irish Rail

Action	286	Publish an updated policy statement on renewable fuels for transport			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish an updated policy statement on renewable fuels setting out the planned level of biofuel use from the end of 2021 to 2030		Policy statement published	Q4 2021	D/Transport	
Deliver supporting legislation for changes to the Biofuels Obligation Scheme requiring implementation and compliance by account holders (suppliers)		Legislation enacted	Q4 2021	D/Transport	DECC
Review the updated policy on renewable fuels to take account of any relevant legislative changes at EU level		Update and publish further iteration of the policy statement following review and consultation	Q1 2023	D/Transport	

Action	287	Support the development of renewable gas, such as biomethane, as a transport fuel in the transport sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Evaluate Section 285c of the Taxes Consolidation Act allowing for Capital Allowances for Gas Vehicles and refuelling equipment		Potential extension of and/or amendment to the measure through the Finance Bill	Q4 2021	DFIN	
Engage with relevant stakeholders with regards to the renewable gas registry to support certification requirements for grid-injected renewable gases in the Transport sector		Registry established	Q4 2022	CRU	D/Transport, DECC, GNI

Action	288	Publish the 10-year Haulage Strategy for Heavy Goods Vehicles			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish the 10-year Strategy for the Haulage Sector		Published Strategy	Q2 2022	D/Transport	
Consider climate recommendations from the Strategy		Actions designed for Climate Action Plan 2022	Q3 2022	D/Transport	

Action	289	Support the transition to alternatively fuelled and zero-emission vehicles by removing the vehicle weight barrier			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review the Road Traffic (Construction and Use of Vehicles) Regulations 2003 (SI No 5 of 2003) to assess the impact of an increased in the maximum permissible weight for laden alternative fuel vehicles and zero-emission vehicles and amend if positive		Amended legislation published	Q3 2022	D/Transport	TII, road authorities, An Garda Síochána, HAS

Action	290	Promote greater eco-practices within the HGV sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Examine the feasibility of developing logistics hubs near urban centres to consolidate and rationalise freight transport		Commission a research study	Q4 2022	D/Transport	
Review the Control of the Vehicle and Eco Driving Technique module of the CPC syllabus to encourage sustained eco-driving practices		Review of module	Q4 2022	RSA	D/Transport

Action	291	Implement the mandatory targets identified in the Alternative Fuels Infrastructure Regulation (AFIR)			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Reflect principle of EV infrastructure targets outlined in the draft AFIR in the National EV Infrastructure Strategy		National EV Infrastructure Strategy reflecting the principle of AFIR targets	Q1 2022	D/Transport	
Review shoreside infrastructure targets outlined in the recast AFIR		Needs assessment paper published	Q4 2023	D/Transport	IMDO
Review HDV infrastructure targets outlined in the recast AFIR		Review paper published	Q4 2023	D/Transport	

Action	292	Assess options to ensure commercial State ports are positioned to facilitate the development of offshore renewable energy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Conduct assessment in consultation with relevant Offshore Wind Energy stakeholders		Internal report submitted to the Minister	Q4 2021	D/Transport	
Commence preparation of roadmap for implementing the results of the assessment		Commenced preparations	Q1 2022	D/Transport	DECC
Complete Roadmap		Publish roadmap	Q3 2022	D/Transport	

## Transport

Action	293	Assess the environmental impact of the internationally trading Irish fleet			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish an analysis of the environmental impact of the current Irish (internationally trading) fleet, to include benchmarking the Irish standard based on an assessment of other flags		Report submitted to Minister	Q4 2021	D/Transport	

Action	294	Carry out a review of the supply of renewable transport fuels in Ireland, such as biofuels, advanced biofuels, e-fuels, synthetic fuels, green hydrogen, and biogas			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Engage with the European Commission and European partners on sustainability provisions for renewable transport fuels as set out in EU legislation		Engage with aligned Member States on the robustness of sustainability criteria for renewable transport fuel development and monitoring	Q2 2022	D/Transport	DECC, DFA, NORA, EU, and other Member States
Progress a study reviewing the profile, sustainability, and supply of renewable transport fuels in Ireland, such as biofuels, advanced biofuels, e-fuels, synthetic fuels, biogas, and green hydrogen.		Research report including recommendations for sustainable biofuels policy development published	Q2 2022	D/Transport	NORA, SEAI, DECC, DAFM, Teagasc, Industry

Action	295	Through the Core Transport Adaptation Team, review the climate adaptation activities currently ongoing and identify opportunities for future implementation of relevant policy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Draft Terms of Reference for the revitalised Core Transport Adaptation Team		A review of adaptation initiatives the Department is involved in, identifying the resources the Department has committed to climate adaptation nationally	Q4 2021	D/Transport	

Action	296	Identify opportunities for collaborative research in the area of climate adaptation for the transport sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Discuss with key stakeholders how D/Transport can contribute to collaborative research		A framework agreement with relevant partners for climate adaptation research	Q4 2021	D/Transport	EPA, Met Éireann, OPW, NTA, TII

Action	297	Improve climate resilience and adapt to climate change on the Light rail and National Road Network			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish strategy for adapting to climate change on Ireland's light rail and national road network		Publication of the updated 2017 strategy	Q4 2022	TII	D/Transport, TII, NTA
Develop guidance on climate adaptation on regional and local roads		Guidance on climate adaptation on regional and local roads	Q2 2023	CAROs	



Action	298	Collaborate and share best practice on adaptation in the transport sector with relevant stakeholders			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Collaborate and share best practice with the United Nations Economic Commission for Europe and the Organisation for Economic Co-operation and Development		Collaboration to solidify Ireland's position as a player globally in contributing to climate action	Q4 2022	D/Transport	UNECE, OECD

Action	299	Define a set of metrics to accurately quantify the cost of extreme weather events to the State in terms of both revenues lost and the cost of repairs			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Commence a review of the effectiveness of current quantitative data collection procedures for the impacts of extreme weather events and longer-term climate change		Standardised methodology for quantitative data collection procedures for the impacts of extreme weather events for transport operators	Q4 2022	D/Transport	TII

## Transport

Action	300	Commission research on adaptation in the Transport sector to fill existing knowledge gaps			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Scope out a design for a concise comparative study between output of the EPA ClviC project and other resources such as CFRAMS and IPCSS maps to create a climate services resource for transport operators		Create a climate services resource for transport operators	Q2 2022	D/Transport	EPA
Commission a study on cross border adaptation issues on an all-island basis		Study published	Q4 2022	D/Transport	EPA
Commission a study to identify options for climate resilient development pathways to 2050 for Ireland in the transport sector		Identify pathways to achieving climate resilience by 2050 for Ireland	Q4 2023	D/Transport	EPA

Action	301	Devise pathway to deliver an additional 0.9 Mt CO2 reduction in the transport sector by 2030			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Undertake a programme of work which will Review progress and further refine measures that will seek deliver an additional 0.9 Mt CO2 reduction in the transport sector by 2030 in a fair and equitable manner		Commission research to examine the abatement potential, sustainability criteria, and relative economic impact of various mitigation pathways to achieve a 0.9 Mt CO2 reduction	Q4 2022	D/Transport	

Action	302	Review further linkages between accessibility and climate action			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Review by Transport Working Group	Q3 2022	DCEDIY	D/Transport, NTA

## Agriculture

Action	303	Complete a review of the Teagasc Marginal Abatement Cost Curve			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action.		Funding provided	Q1 2022	DAFM	
As per headline action		Review complete / report provided	Q1 2027	Teagasc	DAFM

Action	304	Reduce chemical nitrogen use to an absolute maximum of 325,000 tonnes (annually) by 2030, with an interim target of 350,000 tonnes by 2025		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Amendments to the closed period for spreading organic manures to seek improvements in their utilisation and storage capacity	Increased capacity as per the Nitrates Action Programme	Q1 2022	DHLGH	DAFM
Improved controls for the application and management of chemical fertiliser to be included in the new Nitrates Action Programme	Legislation for the new Nitrates Action Programme	Q1 2022	DHLGH	DAFM
Promote and demonstrate reduced nitrogen fertiliser use through improved soil fertility on the signpost farms	Provide demonstration and training material to encourage farmers to target fertiliser use more accurately	Q1 2022	Teagasc	
Establish the low nitrogen farming system trial in Johnstown Castle	Start new low nitrogen fertiliser dairy systems trial on multispecies swards in Johnstown Castle.	Q1 2022	Teagasc	
Implement regulation to deliver 60% of all slurry applied by Low Emissions Slurry spreading from 2023	Legislation for the new Nitrates Action Programme	Q1 2023	DHLGH	DAFM
Promote and demonstrate reduced nitrogen fertiliser use through improved soil fertility on the signpost farms	Provide demonstration and training material to help farmers maximise the benefits of clover swards	Q1 2023	Teagasc	DAFM, Industry

Action	305	Conclude review of the Nitrates Action Programme		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Conclude negotiations with EU Commission on the Nitrates Action Programme and introduce legislation	Legislation	Q1 2022	DHLGH	DAFM

Action	306	Establish National Fertiliser User Register to allow a more resource efficient use of nutrients		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Scope out policy on a national fertiliser register to include legal advice and consultation with a wide variety of stakeholders	Consultation on national fertiliser register policy concluded	Q3 2022	DAFM	Co-ops, Fertiliser industry
Introduce a National Fertiliser User Register	Introduce a National Fertiliser User Register	Q1 2023	DAFM	

Action	307	Increase the use of protected urea fertiliser		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Promote switching to protected urea fertiliser through the SignPost farms network	Provide demonstration and training material to encourage farmers to switch to protected urea	Q1 2022	Teagasc	DAFM, Co-ops, Fertiliser industry
Establish an information Portal on Protected Nitrogen Products	Establish information Portal	Q2 2022	DAFM	Co-ops, Fertiliser industry

Action	308	Promote increased use of leguminous crops to fix nitrogen in production systems			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Provide support for the Protein Aid Scheme to support the production of legumes, which play an important role in fixing nitrogen from the atmosphere resulting in reduced chemical nitrogen fertiliser usage		Funding provided under new Common Ag Policy	Q1 2023	DAFM	

Action	309	Increase the number of dairy herds carrying out milk recording from the current level of 50% to 90%			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Promote the use of milk recording through the Teagasc Signpost Programme		Increase in numbers of dairy farmers using milk recording to 90% 2030 target	Q4 annual reporting	Teagasc	DAFM
Promote the use of milk recording through engagement with the dairy industry		Increase in numbers of dairy farmers using milk recording to 90% 2030 target	Q4 annual reporting	DAFM	Dairy Industry

Action	310	Increase focus on selection for traits that lead to lower methane production in the beef breeding programme			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Publish paper on residual methane trait	Q1 2022	Teagasc	ICBF, DAFM

Action	311	Introduce measures to promote improved efficiency in livestock			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Introduce efficiency measures under new Beef schemes Common Agricultural Policy Strategic Plan		Efficiency measures introduced	Q1 2023	DAFM	Beef Industry

Action	312	Reduce the crude protein content of livestock feeding stuffs to minimise nitrous oxide and ammonia loss		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Require protein in bovine rations to be reduced	Legislation for the new Nitrates Action Plan	Q1 2022	DHLGH	DAFM
Consult with food industry to examine how to reduce crude protein in diets	Report on consultation of how crude protein in animal diets can be reduced	Q2 2023	DAFM	Animal Feed Industry

Action	313	Progress the development of feed additives on methane emissions for use during the housing period		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Evaluate the effects of 3-NOP at reducing methane emissions and animal performance in beef cattle (indoors)	Provide data on level of methane mitigation potential of 3-NOP in beef cattle (indoors)	Q2 2022	Teagasc	Industry (DSM), DAFM
Examine the effects of feed ingredients/ additives (seaweeds, seaweed extracts, oils, and halides) in sheep and cattle	Provide data on level of methane mitigation potential of a range of feed additives in sheep and cattle	Q2 2022	Teagasc	Industry (DSM), DAFM
Subject to the outcome of research results, develop new actions for the Climate Action Plan 2022 to progress feed additives to market	Development of new actions	Q4 2022	DAFM	Teagasc

Action	314	Introduce measures to promote improved efficiency and reduced emissions in livestock via improved animal health and welfare			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete the Bovine Viral Diarrhoea (BVD) eradication programme.		Provide evaluation of the BVD eradication programme.	Q4 2023	DAFM	AHI, Farming Organisations, Teagasc, ICBF, Glanbia, UCD, Veterinary Ireland
Significantly reduce the incidence of Tuberculosis in cattle in Ireland.		Provide annual report on the TB eradication programme.	Q2 Annual Report/U pdate	DAFM	Farming Organisations, Veterinary Ireland
Advance Anti-parasitic resistance reduction programme to improve animal health outputs.		Provide annual report on of the progress of the anti-parasitic resistance programme.	Q2 Annual Report/U pdate	DAFM	Farming Organisations, Veterinary Ireland, Teagasc, AHI
Further advance Johnes Disease (JD) control programme to develop a long-term approach to JD control in Ireland.		Provide evaluation of the progress of the JD control programme.	Q2 Annual Report/U pdate	AHI	AHI, Farming Organisations, Teagasc, ICBF, Milk Processors, Meat Industry Ireland, Veterinary Ireland
Progress Infectious Bovine Rhinotracheitis (IBR) control/eradication programme to reduce the impact of clinical and subclinical disease in cattle herds in Ireland		Launch an IBR control/eradication programme and report	Q2 Annual Report / Update	AHI	DAFM, Farming Organisations, Veterinary Ireland, Teagasc, AHI
Support "Cellcheck" programme to reduce impact of clinical and sub-clinical mastitis and thus improve milk production efficiency		Continue improvements in somatic cell count (SCC) levels in milk supply. By 2025 80% of milk supply to have a SCC of 200 000 cells or less per ml.	Q3 2025	AHI	DAFM, Farming Organisations, Teagasc, ICBF, Milk Processors, Veterinary Ireland



## Agriculture

Initiate programme to generally improve livestock health and welfare, via herd health planning approach, starting with calf care initiatives, and working across all categories to reduce on-farm deaths and production losses.	Programme initiated and annual report on progress.	Q2 Annual Report/ Update	AHI	DAFM, Farming Organisations, Teagasc, ICBF, Milk Processors, Meat Industry Ireland, Veterinary Ireland
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Action	315	Reduce the average age of slaughter of prime animals from 27 to 24 months by 2030			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Explore pathways to encourage earlier finishing of beef animals		Reduce finishing age from 27 to 24 months and provide data	Q3 annual update	DAFM	Beef industry, Teagasc, Ag Consultants
Assess multi-species swards for the effect of grazing/ensiled mixed species pasture and animal breeding value for increased carcass fatness/early maturing, on animal performance, financial returns and GHG emissions of suckler beef cattle		Provide data on the effect on finishing date	Q1 2025	Teagasc	DAFM, Industry
Upskill Farmers on beef management		Launch and implement the DairyBeef500 program for beef farmers	Q4 2021	Teagasc	Ag Consultants

Action	316	Increase the current area under organic production from 74,000 ha to 350,000 ha by 2030			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Include Organic Farming Scheme support under the next CSP		Increased Utilised Agricultural Area farmed organically	Annual reports released in Q4 of each year for period 2023-2027	DAFM	Organic Control Bodies, Teagasc, Ag Consultants
Organic farmers to be included in Signpost Programme to represent major organic farming enterprises		Include 5 organic farms in Signpost Programme	Q1 2022	Teagasc	Signpost Programme, Teagasc beef group, dairy processors/co ops, beef processors, Bord Bia
Provide for a strong focus on Sustainability in new NUI Galway Level 8 B.Sc. Ag		Include Organic component in Introduction to Sustainable Agriculture module in Year 1	Q2 2022	Teagasc	NUIG

Action	317	Build organic farming research capacity			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Investigate technical efficiency differences between intensive and extensive dairy farms		Peer reviewed research provided	Q3 2022	Teagasc	LIFT Horizon 2020 partners
Adopt a systems research approach to identify barriers and opportunities within the Organic Food (Innovation) System.		Peer reviewed research provided	Q3 2022	Teagasc	Organic sector
Undertake qualitative research on the drivers of organic and conventional farmers		Peer reviewed research provided	Q3 2022	Teagasc	LIFT Horizon 2020 partners

Action	318	Conduct further research into biomass and manure feedstocks for biogas production through Anaerobic Digestion			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Seek funding for research on low nitrogen multispecies swards as AD feedstock and AD optimisation		Commence new research to evaluate and optimise gas production from Multispecies swards	Q2 2022	Teagasc	DAFM, SFI, GNI
Establish experiment to quantify country specific N2O Emissions Factor for digestate to quantify system sustainability under REDII		New research to establish country specific EFs commenced.	Q1 2022	Teagasc	
Commence experiments to optimise biomethane yield from co-digestion of agricultural feedstocks		New research to optimise biomethane yield from AD commenced	Q1 2022	Teagasc	NUIG
Start-up of the Teagasc biomethane anaerobic digestion pilot plant in Grange		Pilot Plant established	Q2 2022	Teagasc	

Action	319	Introduce a Higher grant rate of 50% for Farmers for Capital Investments that contribute to the wider renewable energy policy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Include incentivisation for energy-related investments at farm level in the CAP Strategic Plan.		Approval of a Capital Investment Scheme by European Commission	Q4 2023	DAFM	

Action	320	Double the biomass supply as a fossil fuel substitute to contribute to the decarbonisation of the energy system			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implement the forest roads scheme to mobilise biomass		Programme established	Q4 2021	DAFM	Forest owners, forest industry
Knowledge transfer on the importance of thinning & sustainable production of biomass for energy and the use of sustainable biomass and standards through the Wood Fuel Assurance Scheme		Communication	Q4 2021	DAFM	Forest owners, forest industry
Annual reporting on the use of forest-based biomass		Communication	Q1 2022	DAFM	Forest owners, forest industry

Action	321	Produce detailed plans to manage the sustainable environmental footprint of the dairy and the beef sectors			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per headline action		Publish plan	Q2 2022	DAFM	

Action	322	Develop an enabling framework to facilitate the roll out of a national carbon farming programme			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop an enabling framework to facilitate the roll out of carbon farming which includes review of best practice, examine voluntary schemes and governance structures		Framework published	Q4 2023	DAFM	Teagasc, Bord Bia, DECC, ISIF, NTMA

Action	323	Continue to invest in research to develop novel feed additives to reduce biogenic methane during the grazing season			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Accelerate research in developing a feed additive pasture-based solution to reduce methane		Evaluation of a feed additive solution for use in Ireland during the grazing season	2025	Teagasc	UCD, DAFM
Develop linkages internationally to facilitate the development of a feed additive pasture-based solution to reduce methane		International linkages established to facilitate a feed additive solution for use in Ireland during the grazing season	2025	Teagasc	DAFM

Action	324	Ensure optimisation of forage production to improve quality and quantity of forage in animal diet to improve enteric fermentation efficiency (reduces methane), through grassland management and inclusion of clover in reseeded swards			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Promote the use of grassland measurement ,through further uptake of Teagasc Pasturebase tool to increase the quality and quantity of forage from grassland		Increase usage of Pasture Base Ireland tool, increase grass utilisation, target more grazing per farm	Q2 2022	Teagasc	DAFM
Require grass measurement on intensive holdings		Legislation for the new Nitrates Programme	Q1 2022	DHLGH	DAFM
Increase use of clover in reseeded swards (2kgs/ac)		Promote Higher % clover on farm, clover pilot farms on PBI, including the Clover demo farms project	Q3 2022	Teagasc	DAFM

Action	325	Develop and finalise appropriate interventions under Ireland's CAP Strategic Plan to support the maximum possible environmental, biodiversity and climate ambition in CAP 2023-2027			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop and finalise appropriate interventions under Ireland's CAP Strategic Plan		CAP Strategic Plan to be published with policies and interventions to support climate action	Q1 2023	DAFM	

Action	326	Expand research calls and national funding in line with Department of Agriculture priority areas and climate action research goals			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop and launch National Research Call/Calls with increased focus on climate adaptation/mitigation and bio/circular economy development		Rollout of ongoing periodic research calls. Report on an annual basis	Q1 Annual Report	DAFM	Teagasc, EPA, SEAI, DAERA - NI, HEIs
Develop a pilot strategic studies research call to address urgent policy concerns/needs in the areas of climate adaptation/mitigation and bio/circular economy		Rollout of ongoing periodic research calls. Report on an annual basis	Q1 Annual Report	DAFM	Teagasc, EPA, SEAI, DAERA - NI, HEIs

Action	327	Expand international research funding opportunities in priority areas including climate related areas			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Identify and develop new international funding partnerships and collaborative opportunities with other countries that align with DAFM priority areas and climate action goals		New international funding partnerships and collaborations identified and developed	Q2 2022	DAFM	Teagasc / GRA
Review and implement new research areas under the tripartite research collaboration with DAERA and USDA to include priority areas such as climate, environment, and bioeconomy research		Number of successful partnerships developed in the priority areas	Q4 2022	DAFM	DAERA/USDA
Engage with developments and funding mechanisms under EU Horizon Research Programmes (e.g., Partnerships) to support research strategy and funding opportunities for research		Number of successful partnerships developed in the priority areas.	Q4 2022	DAFM	FHEDRIS/EI/E C
Launch successful climate-related research proposals from the DAFM Research Call 2021		No of successful climate-related research projects launched	Q4 2021	DAFM	Research Performing Organisation (RPOs)

Action	328	Establish a centre for excellence for innovation in climate smart agriculture and land-use for the agri-food sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Support and engage on the centre of excellence project in agri-climate to ensure Ireland as a global leader in research and innovation related to climate smart agriculture and land use		Establishment of Agricultural Greenhouse Gas Research & Innovation Centre	Q4 2022	DAFM	Teagasc

Action	329	Upskill farmers and advisors to ensure they have the knowledge and tools to implement climate mitigation and adaptation practices		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop and deliver additional Continuous Professional Development training for advisors which will include a specific focus on climate change as an identified priority area	Training Modules	Q2 2022	DAFM	Agricultural Advisors, Farm Bodies
Co-design training modules which highlight measures to reduce emissions and enhance carbon sequestration, with relevant stakeholders including farmers, advisors, curriculum development and teachers.	Training modules developed	Q4 2021	Teagasc	ACA agricultural consultant's association

Action	330	Identify knowledge gaps in the horticulture sector around climate change mitigation actions and address areas for change		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Implement the Horticulture Action Plan	Implementation Plan developed	Q1 2023	DAFM	Horticulture Industry Forum, Horticulture Industry

Action	331	Implement the Food Vision 2030, in particular the mission for "A Climate Smart, Environmentally Sustainable Agri-Food Sector"		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Ongoing monitoring of implementation by the Food Vision High-level Implementation Committee, including the Environmental Sub- Committee	Implementation of the 61 Actions outlined in Mission 1 of Food Vision - "A Climate Smart, Environmentally Sustainable Agri-Food Sector"	Annual Report From Q4 2022	DAFM	Agriculture stakeholders



Action	332	Promote ecosystem restoration and conservation through Payment for Ecosystem Services and investment in actions that increase carbon sinks while promoting biodiversity e.g., woodlands, bogs, soil management, hedgerows		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Roll out the Results Based Payment System to >150 farmers in Owenduff/Nephin SAC, Co. Mayo	Report on number of farmers in scheme	Q4 2021	DHLGH	DAFM
Develop an agri-environment framework that facilitates the roll-out of a Results Based Payment Scheme that has been designed specifically to achieve improved blanket bog biodiversity with net benefits to climate and water objectives	Farm plans	Q4 2022	DAFM (CSP), DHLGH (NPWS/DHLGH Farm Plans)	DHLGH, Teagasc, DECC, EPA

Action	333	Implement the new All-Ireland Pollinator Plan for 2021-2025		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Implement All-Ireland Pollinator Plan	Progress Report	Q4 2021 Q4 2022	Heritage Council	DAFM

Action	334	Increasing Climate resilience in our Forest Estate		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Include climate change adaptation measures aimed at increasing the resilience of new and existing forests in the new Forest Strategy (2022-2030)	Adaptation Measures included in Forest Strategy	Q2 2022	DAFM	Forestry Policy Group
Promote policies and information to reduce the risk of climate-induced damage to the forest estate	Communications and knowledge transfer initiatives undertaken	Q4 2023	DAFM	Teagasc, Knowledge transfer groups

Action	335	Strengthen adaptative capacity through improving knowledge and awareness building on climate action policy in the food and drinks Industry		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Endeavour to raise awareness on food waste across the agriculture and food sector and in schools	Increased awareness and implementation of food waste action requirements	Q4 2021	DAFM, DECC/EPA	DECC/EPA, DAFM Divisions, farmers, fishers, food industry
Effective consultation with agri food and drinks sector on Climate Action plan ambition	Effective communication of Climate action policy and increased awareness by the sectors concerned	Q3 2022	DAFM	Industry rep bodies

Action	336	Improve climate resilience in crop production		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Continue with Value for Cultivation and Use (VCU) trials to identify varieties of various crops suitable for Irish Conditions	Recommended List for the following crops - Winter and Spring Barley, Wheat and Oats, Winter Oilseed Rape, Spring Beans, Maize and Grass/Clover	<p>Annually:</p> <p>- Q1 – Spring beans; forage maize; spring cereals, grass, and clover.</p> <p>Q2 Winter oil seed rape. Q3 winter cereals</p>	DAFM	Seed Industry
Maintain National Gene Banks in order to provide genetic material for research to identify varieties with traits what will stand up to challenges of Climate Change	Granting of Seed as Requested	Q4 annual report	DAFM	Researchers / Research Organisations
Increasing use of cover/catch crops and buffer strips to avoid soil erosion and nutrient runoff	Target of 50,000ha of cover crops by 2030	Annual reporting from Q4 2023	DAFM	Teagasc, other advisory services, seed industry and farmers
Improve water infiltration through increased use of min till/no till	Increase in number of tillage farmers using minimum till and no till in the Agri-Environment Climate Measure (AECM) schemes under CSP	Q4 2023	DAFM	BASE Ireland, Teagasc and other advisory services, seed industry and farmers

## Agriculture

Completion of national plant health monitoring programme(s) for new plant pests	Complete annual plant health surveys and report findings	Annually – Annual Reports in Q1	DAFM	
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Action	337	Engage DAFM Internal Adaptation Stakeholder Group (IASG) to review DAFM progress on mainstreaming adaptation in policy		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Engage IASG as part of review of agri policy developments across the Department to assess consideration of adaptation issues and to ensure policy is climate proofed	Inclusion of adaptation issues in IASG report	Q4 2022	DAFM	DAFM Agencies

Action	338	Conduct an Interim Review of the Agriculture, Forest and Seafood Sectoral Adaptation Plan and recommend next steps for increasing climate ambition		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Review current Agriculture, Forest and Seafood Sectoral Adaptation Plan and identify next steps	Steps for climate ambition identified	Q4 2022	DAFM	DAFM Agencies

## Agriculture

Action	339	Identify priority steps towards building resilience from the seafood section of the Agriculture, Forest, and Seafood Climate Change Sectoral Adaptation Plan			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review and prioritise the Steps Towards Building Resilience in the seafood case studies		Report complete	Q1 2022	DAFM	Marine Agencies
Implement prioritised Steps Towards Building Resilience		Implementation plan developed	Q4 2022	DAFM	Marine Agencies

Action	340	Update climate adaptation impact and vulnerability analysis			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review current Impact and Vulnerability Analysis		Impact and Vulnerability Analysis Review	Q4 2021	DAFM	DAFM Agencies
Update the Impact and Vulnerability assessment		Updated Impact and Vulnerability Analysis	Q1 2022	DAFM	DAFM Agencies

Action	341	Carry out a diversification review, including assessment of further biomethane production			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Carry out a diversification review, including assessment of further biomethane production		Review	Q2 2024	DAFM	DECC, EPA, Teagasc

Action	342	Adopt the new EU Fertiliser Product regulation to allow a more resource efficient use of nutrients, which has the beneficial effect of reducing the number of fertilisers used and hence their environmental impact			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implement the new Fertiliser Product Regulation (Regulation (EU) No. 2019/1009)		Legislation	Q2 2022	DAFM	Fertiliser Industry
Consult with the fertiliser industry to ensure the smooth transition to the new regulatory regime		Consultation between DAFM and Industry	Q2 2022	DAFM	
Develop inspection procedures and product testing protocols for market surveillance of EU fertilising products		Procedures and protocols in place	Q2 2022	DAFM	

Action	343	Increase the number of suckler beef herds in beef weight recording from the current level of 30% to 70%			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Require weight recording of beef animals under new beef schemes, aided by advisory and educational supports		Report on the annual increase in percentage of suckler beef herd recording cow/calf weight	Q4 2023 and further Q4 annual reporting	DAFM	Beef Industry

Action	344	Integrate the Cork Institute of Technology/SEAI/Teagasc National Artificial Intelligent Dairy Energy Application (NAIDEA) into Sustainability Dairy Assurance Scheme (SDAS)			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Integrate required model input data into the SDAS audit procedure		Dairy energy infrastructure data provided as part of the SDAS audit procedure	Q3 2022	Bord Bia	
Develop energy efficiency score and report for SDAS members		6,000 evaluations carried out	Q4 2022	Bord Bia	

## Agriculture

Action	345	Continue to support energy efficient measures by members of Producer Organisation scheme		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Assess and approve (where applicable) funding requests for on farm investments and environmental actions	At least two actions in each Producer Organisation's Operational Programme will focus on environmental and climate change mitigation	Q1 2023 onwards	DAFM	Commercial Mushroom Producers, Unigreen, FFP, Quality Green (Producer Organisations)

Action	346	Provide knowledge and expert advice on predicted grass growth		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Provide farmers with fertiliser advice that is based on predicted grass growth and modelling	Commence nitrogen fertiliser advice based on the predicted grass growing conditions on a twice monthly basis	Q1 2022	Teagasc	DAFM, Seed industry
Action N fertiliser targeting	Usage of MOST grass growth model, to target N based on prevailing weather conditions	Q3 2022	Teagasc	DAFM, Met Eireann

Action	347	Continue support for European Innovation Partnership pilot project - Small Biogas Demonstration Programme and dissemination of learnings		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Continue support for EIP pilot project - Small Biogas Demonstration Programme and dissemination of learnings	Complete pilot project 2023	Q1 2023	DAFM	EIP Operational Group, Irish Bioenergy Association

Action	348	Introduce enhanced knowledge transfer programme through Teagasc advisory service on farm diversification		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Review effectiveness of Teagasc options programme which covers promotion of organics and farm income diversification options, towards increasing the uptake at farm level of low input organic systems to achieve government targets.	Communications	Q1 2022	Teagasc	DAFM
Implement recommendations for enhanced knowledge transfer programme.	Revised programme	Q1 2022	Teagasc	DAFM

Action	349	Roll-out of advisory and education services to farmers		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Generate Carbon Footprint Reports to members of the Sustainable Beef and Dairy Assurance Schemes	Report	Q4 2021	Bord Bia	
Develop and enhance knowledge transfer groups for forestry to reach new audiences	Communications	Q4 2021	DAFM	Agricultural consultants, registered foresters, Teagasc

Action	350	Produce Origin Green Farmer Feedback Reports		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Generate & Deliver Farmer Feedback Reports to members of the Sustainable Beef and Dairy Assurance Schemes to provide information on their farm enterprise carbon footprint and reduce their environmental impact	Farmer Feedback Reports sent to farmers post audit 20,000 annually	Q4 2021 Q4 2022	Bord Bia	Teagasc
Communications campaign to raise awareness of Farmer Feedback Reports via text, newsletter, media, SM, advisor discussion groups.	Communications campaign established	Q4 2021 Q4 2022	Bord Bia	Teagasc



Action	351	Improve knowledge and awareness building in climate resilience among farmers			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Highlight lessons of recent floods/droughts to advise farmers e.g., forage budgeting and grass measuring. Zero requirement for future fodder schemes because of on-farm reserves		Report fodder survey for winter 2022	Q3 2022	Teagasc	DAFM

Action	352	Explore the feasibility of including flood maps on Nutrient Management Planning (NMP) online			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review data and potential of using flood maps to determine nutrient applications		Introduction of flood maps on NMP online	Q4 2024	DAFM	Teagasc, Met Eireann, OPW

Action	353	Assess the economic and employment implications of the transition to a low-carbon economy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Conclude Phase 2 of the assessment of the implications of climate mitigation options on socio-economic value of agricultural production and the rural economy		Report concluded	Q1 2022	DAFM	Teagasc

Action	354	Develop Lamb Carbon Foot printing of Lamb scope members of SBLAS			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Integrate required model input data into the SBLAS audit procedure		Include Lamb Production activity data in the SBLAS audit procedure	Q1 2022	Bord Bia	
Calculate Lamb Carbon footprint results for Lamb scope SBLAS members		Provide Lamb carbon footprint for SBLAS members	Q1 2022	Bord Bia	

Action	355	Develop Egg Carbon Footprint for Sustainable Egg Assurance Scheme (SEAS) members			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop Egg Carbon Footprint		Egg CF Model finalised	Q2 2022	Bord Bia	
Integrate required model input data into the SEAS audit procedure		Include Egg CF Model into the SEAS audit procedure	Q4 2022	Bord Bia	
Calculate Egg Carbon footprint results for SEAS members		Provide Egg carbon footprint for SBLAS members	Q4 2022	Bord Bia	

Action	356	Develop a Farmer eLearning Platform		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop a Learning Management System on sustainability topics for farmers	Learning Management software procured	Q4 2021	Bord Bia	Teagasc
Develop Farm Modules to raise understanding and improve farm performance on sustainability	eLearning modules developed	Q2 2022	Bord Bia	Teagasc
Launch and promote the eLearning Platform	Farmer Portal page updated with eLearning modules	Q2 2022	Bord Bia	Teagasc

Action	357	Develop Farm Sustainability Planner		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop specification for action tool	Specification document complete	Q4 2021	Bord Bia	
Collate sustainability fact sheets and develop actions list	Action inventory and fact sheets developed.	Q2 2022	Bord Bia	
Pilot tool with farmers	50 action plans completed	Q4 2022	Bord Bia	

Action	358	Support the maximum possible environment and climate ambition in the post-2020 Common Agricultural Policy.		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Undertake a Public consultation on the Strategic Environmental Assessment (SEA) of the draft Common Agricultural Policy Strategic Plan	Public consultation concluded	Q4 2021	DAFM	DECC
Submit draft Common Agricultural Policy Strategic Plan to the European Commission	Strategic Plan submitted to the European Commission	Q1 2022	DAFM	

Action	359	Implement suite of measures to improve nitrogen use efficiency.		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Complete research in respect of potential food residues arising from certain fertiliser formulations (e.g., protected urea), which will allow industry to have confidence in the widespread use of these products which lower N <sub>2</sub> O emissions.	Communications	Q4 2021	Teagasc	DAFM

Action	360	Improve on-farm slurry management.		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Communicate the terms and conditions of the Nitrates Derogation and 2019 Nitrates Derogation Review to farmers regarding efficiency of manure and fertiliser use, with the support of Teagasc and Industry.	Communications	Q4 2021	DAFM	
Adopt a pilot scheme for slurry additives in external stores to examine the effect of slurry additives on ammonia emissions	Research Report	Q4 2021	DAFM	

Action	361	Develop and Implement Bioeconomy work programme in support of the use of sustainable, renewable biological resources to displace fossil fuels for chemical, material and energy purposes.		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Appoint Chair, confirm work programme and invite members for National Bioeconomy Forum.	Work Programme finalised	Q4 2021	DAFM	DECC

Action	362	Train farm advisors to support farmers in the implementation of climate mitigation practices at farm level.		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Develop and roll-out a Training of Farm Advisors Programme to 400 public and private advisors in 2021 to upskill in key areas such as climate change, health and safety, biodiversity, and soil and water challenges.	Training programme and uptake by at least 400 advisors	Q4 2021	DAFM	Agricultural advisor bodies and farm bodies

Action	363	Support Regional Assemblies to identify areas of potential growth in the bioeconomy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Invite one Regional Assembly to attend the Bioeconomy Forum.		Southern Regional Assembly attending the Bioeconomy Forum	Q1 2022	DAFM	DECC, Bioeconomy Forum, SRA.
Identify sustainable value chains based on available bioresources in each regional area through the ABC Economy research project.		Model for assessment of regional bioeconomy value chains in Monaghan and Tipperary developed	Q2 2022	DAFM	SEAI, CRE, UCD. LGMA
Complete Fast Track to Policy Circular Bioeconomy Outlook Study		Feedback from FTP study provided to Regional assemblies and project report finalised.	Q2 2022	DAFM	DECC, EPA, MTU, UL, Teagasc, UCD, SRA, EMRA, NWRA.
Deliver a Bioeconomy Foresight Analysis providing a roadmap for Ireland towards a sustainable bioeconomy by integrating biomass mapping, value-chain analysis, life-cycle assessment and scenario modelling, and will attempt to quantify the potential of the bioeconomy to contribute to Ireland's climate and sustainability targets.		Mapping, measuring, monitoring & foresight analysis outputs for bioeconomy development in Ireland released during period 2022-2024	Q4 Annual report 2022-2024	DAFM	MTU, UL, Teagasc, UCD,

## Land Use, Land Use Change, Forestry, and the Marine

Action	364	Project Woodland to develop a shared national approach for trees, woods, and forest			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Launch of new not for profit focussed on attracting corporate funds to plant new native woodlands		New company limited by Guarantee launched	Q4 2021	Coillte	DAFM, DPER, NewERA
Carry out a public consultation in preparation of the Forest Strategy and the new Forestry Programme (post-2022)		Public consultation complete	Q1 2022	DAFM	Forest Policy Group
Carry out a SEA in preparation of the Forest Strategy and the Forestry Programme (post-2022)		SEA conducted	Q1 2022	DAFM	
Launch the new Forest Strategy		Strategy launched	Q2 2022	DAFM	Forest Policy Group
Launch the new Forestry Programme and associated supports for the forest sector		Programme launched.	Q1 2023	DAFM	Forest Policy Group

Action	365	Prepare the next Forestry Programme post 2014-2020 for publication in 2023			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish a working group to contribute to the formation of the next forestry programme (post 2020) and for publication in 2023. Programme to be developed in line with the new forest strategy		Group established	Q4 2021	DAFM	Forestry stakeholders, NGOs, public

## Land Use, Land Use Change, Forestry, and the Marine

Action	366	Implement Forestry Programme 2014-2022 (includes 2-year extension)			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implement measures to establish afforestation climate ambition. Measures will be targeted at sequestration, increasing carbon stocks and stores		Communications	Q4 2021	DAFM	Forestry stakeholders, NGOs, public
Construct 125 km / new forest roads per year to mobilise biomass		Monitoring & Evaluation	Q4 2021	DAFM	
Increase participation of existing schemes and measures		Monitoring & Evaluation	Q4 2021	DAFM	

Action	367	Increase the level of afforestation to meet targets			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Commence planting of new forests		Initial planting of first 200 hectares of forests	Q4 2021	Coillte	
Start the planting of 1,500ha of native woodland on Bord na Mona cut-over bogs as part of an integrated land use plan which includes rewetting and habitat restoration		Planting commenced	Q4 2021	Coillte	Bord na Mona

Action	368	Increase output of forestry licences to meet demand				
Steps Necessary for Delivery		Proposed Output	Timeline		Lead	Key Stakeholders
Increase output of forestry licences to meet demand		Monitoring & Evaluation	Q4 2022	DAFM		



Action	369	Promote the role of afforestation as a climate solution			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Promote Afforestation and Forestry as a climate change solution		Inclusion of afforestation in green cert agricultural courses	Q1 2022	Teagasc	

Action	370	Develop tools for communicating productivity and climate benefits of forests			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Promote the use of DAFM forest management tools and incorporate use into relevant advisory Services (e.g., Climadapt and StandModel)		Communication complete	Q4 2021	DAFM	Teagasc, Forest owners, foresters

Action	371	Encourage the planting of small woodlands as part of DAFM agri-environment and afforestation schemes			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Design an agri-environment scheme that incorporates the afforestation of small areas of native tree species		Programme designed	Q3 2022	DAFM	Teagasc, Forestry Stakeholders
Develop skills in the farming sector that support landowners in establishing and maintenance of these forests themselves or with assistance from forestry contractors, in accordance with scheme criteria		Communication	Q4 2022	DAFM	Teagasc, Forestry Stakeholders

Action	372	Minimise the impact of deforestation on GHG emissions, while supporting wider government policies		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Completion of project plan for Derryclare pilot site in Co. Galway	Project Plan complete	Q1 2022	Coillte	
Incorporate measures aimed at tackling deforestation into other DAFM schemes	Programme developed	Q1 2022	DAFM	Teagasc, Forestry Stakeholders
Analyse the impact of deforestation on GHG emissions on different forest types	Assessment	Q3 2022	DAFM	Teagasc, Forestry Stakeholders
Develop remote sensing data to improve deforestation detection	Assessment	Q4 2022	DAFM	Teagasc, Forestry Stakeholders
Monitoring of felling licence replanting condition following final harvest	Assessment	Q4 2022	DAFM	Teagasc, Forestry Stakeholders
Generate public awareness of the impacts of deforestation	Communication commenced	Q4 2022	DAFM	Teagasc, Forestry Stakeholders

Action	373	Develop and support forests and forest owners in the sustainable management of woodland and the importance of climate mitigation and adaptation			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review existing knowledge transfer groups and determine impact on climate change mitigation and adaptation		Review complete	Q4 2021	DAFM	Forestry stakeholders, Foresters, IFA, ITGA
Develop management tools with an emphasis on climate mitigation and adaptation		Management tools developed	Q4 2021	DAFM	Foresters
Assess the training needs of foresters and review the DAFM scheme for the continuous professional development of registered foresters		Review complete	Q4 2021	DAFM	Foresters, Society of Irish foresters
Investigate the engagement of forest owners in sustainable forest management e.g., DAFM funded FOROWN project		Report complete	Q4 2021	DAFM	Teagasc, Third levels institutions

Action	374	Conduct research into species selection to increase resilience to climate change			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assess Adaptation/Appropriate species selection for climate change		First round of assessment of species and provenance trials completed for fit forest project	Q2 2022	Teagasc	DAFM, Forest Industry, Growers
Model impact of climate change on bud burst on key forest species in Ireland		Model produced	Q3 2022	Teagasc	

Action	375	Assess the impact of forest carbon stocks, sinks, and stores within the Land Use, Land-use Change and Forestry sector and model impacts of different forest management and afforestation scenarios			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Create and develop tools to support decisions impacting on carbon stocks and sinks		Communications	Q4 2021	DAFM	
Research investigation into land use change pathways towards carbon neutrality e.g.,/ EPA funded SeQUeSTER project - Scenarios Quantifying Land Use & Emissions Transitions Equilibrium with Removals Towards		Report	Q1 2023	EPA	DAFM

Action	376	Encourage increased use of alternative forest management systems			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review of the existing Continuous Cover Forestry (CCF) Woodland Improvement Scheme as part of the next Forestry Programme		Programme reviewed	Q1 2023	DAFM	Teagasc, Forestry Stakeholders
Engagement with forest owners and foresters through knowledge transfer to develop skills in CCF across the forestry sector to facilitate wider adoption of alternative silvicultural options and potential to extend forest rotations where site conditions allow.		Communication through knowledge transfer developed	Q3 2022	DAFM	Teagasc, Forestry Stakeholders

Action	377	Support the mobilisation of timber for use in the processing and biomass sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Monitor and report on forest biomass supply and demand		Report produced	Q1 2022	DAFM	COFORD Council, CSO, SEAI and Forestry Stakeholders
Undertake a study on forest certification of timber in the private sector and make recommendations to increase the uptake of certification in the private sector and assess the impact of certification on market accessibility and future wood mobilisation		Study complete, with recommendations	Q1 2022	DAFM	Timber processing sector and forestry stakeholders

Action	378	Support the development and use of harvested wood products			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop a description of needs for industry led knowledge, development, and research facility for the timber sector in Ireland		Assessment	Q1 2022	EI	DAFM
Showcasing of Irish timber in the design of the new Failte Ireland flagship destination in Coillte's Avondale		Demonstration of timber building	Q2 2022	Coillte	DAFM, DPER, NewERA
Review standards and information on the properties of Irish timber		Assessment	Q1 2024	DAFM	NUI Galway, Timber processing sector and forestry stakeholders

Action	379	Protect and monitor the forest estate for pest and disease in order to maintain carbon stocks and build resilience		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Annual reporting and monitoring of forest health of the existing forest estate	Assessment	Q1 2022	DAFM	Forest owners
Review recommendations and implementation of the Council for Forest Research and Development Sustainable Development and Conservation of Forest Genetic Resources 2020 – 2030	Communications made	Q1 2022	DAFM	COFORD Council
Implementation of risk-based monitoring and inspection regime on plant and timber imports/ exports	Assessment	Q1 2022	DAFM	Forest owners, foresters
Develop forest gene conservation network for native forest trees in Ireland	Network	Q4 2022	DAFM	National Parks & Wildlife Service, National Botanic Gardens, (OPW), Dublin City University
Review recommendations and implementation of the Council for Forest Research and Development Sustainable Development and Conservation of Forest Genetic Resources 2020 – 2030	Monitoring & Evaluation	Q4 2022	DAFM	
Forest fire risk assessment notice	Communications made	Q4 2022	DAFM	Forest Owners

Action	380	Increasing Climate resilience in our Forest Estate		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Include climate change adaptation measures aimed at increasing the resilience of new and existing forests in the new Forest Strategy (2022-2030)	Adaptation Measures included in Forest Strategy	Q2 2022	DAFM	Forestry Policy Group
Promote policies and information to reduce the risk of climate-induced damage to the forest estate	Communications and knowledge transfer initiatives undertaken	Q4 2023	DAFM	Teagasc, Knowledge transfer groups

Action	381	Ensure the inclusion of cover crops in tillage to 50,000ha by 2030		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Inclusion of cover crops in the next CAP Strategic Plan (pending approval). Development of CSP for formal approval by the European Commission	Target of 50,000 hectares	Q4 Annual reports from 2023-2027	DAFM	Teagasc
Continue the Cover Crop Measure in the CAP transitional arrangement to support tillage farmers to increase soil organic carbon levels	Measure included as part of the CAP transitional period	Q4 2022	DAFM	Teagasc

Action	382	Support capital investments in the Tillage Sector in the CSP		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Development of CSP for formal approval by the European Commission. Investments for inclusion to be decided	Approval of a Capital Investment Scheme by EU Commission	Q1 2023	DAFM	

Action	383	Support the straw incorporation measure to reach 10% of Tillage (cereal) area			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continue the Straw Incorporation Measure in the CAP transitional period to support tillage farmers to increase soil organic carbon levels by chopping and incorporating straw from cereal crops		Pilot implemented	Q4 2022	DAFM	Other gov Depts/agencies
Introduction of SIM in the next CAP Strategic Plan (pending approval)		Inclusion of measure in the next CSP	2024 -2027	DAFM	

Action	384	Develop additional cropland measures to protect and enhance soil carbon			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish a natural green cover on tillage ground within 6 weeks post-harvest via shallow cultivation 14 days post-harvest		Nitrates Action Programme Proposal	Q1 2022	DAFM	
Include Minimum practices to protect soil carbon pools in the CAP Strategic Plan (pending approval)		Inclusion as a measure in next CAP programme	2023 -2027	DAFM	



Action	385	Promote 450,000 ha of grasslands on mineral soils for carbon sequestration			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Incentivise carbon sequestration measures on mineral grassland soils in the CAP Strategic Plan (pending approval); e.g., inclusion of clover, soil fertility and pH, nutrient management planning and multispecies mixed swards		Funding of schemes	Q4 2027	DAFM	
Support to be provided for capital investments in grassland management - Development of CSP (pending approval)		Approval of a Capital Investment Scheme by EU Commission	2023 -2027	DAFM	

Action	386	80,000 hectares in 2030 of reduced management intensity of grasslands on drained organic soils			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continued investment, monitoring, and evaluation of the EIP “FARMPEAT” Pilot Project and “Green Restoration Ireland” Pilot Project		Demonstrations	Q4 2022	DAFM	Teagasc, Bord na Mona, NPWS/DHLGH
Incentivise Reduced management intensity of grasslands through the next CAP Strategic Plan, pending approval, rollout an agri-environment and climate measure (AECM) for reduced management intensity of agricultural drained organic soils		Target of 40,000 ha of reduced management intensity of grasslands	Q4 2027 (40,000 ha)	DAFM	Teagasc, Bord na Mona, NPWS/DHLGH , EPA
		Target of up to 80,000 ha of reduced management intensity of grasslands	Q4 2030 (80,000 ha)		

Action	387	Continue investment in peatland mapping		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Finalise RePEAT project “A Modern Resurvey of Mapped Irish Peatlands to Refine Assessment of Land Use Change and Progress Greenhouse Gas Removal and Emissions Inventories” - and continue to monitor and evaluate results	Digital map of peatland soils produced	Q1 2025	DAFM	EPA, NPWS/DHLGH, OSI, Teagasc, DECC
Participate in a JRC-led project on peatland mapping – SEPLA “Satellite-based Mapping and Monitoring of European Peatlands and Wetlands for LULUCF and Agriculture”	Technical guidelines for Good Agricultural Environmental Conditions (GAEC) at EU level developed	Q2 2023	DAFM	EU Joint Research Centre, other Member States, EPA
Conclude detailed national land cover and land map and develop land use knowledge in DAFM	Map complete	Q4 2022	DAFM	OSI, EPA, NPWS/DHLGH, DAFM, Farmer Representative Bodies, Farmers, DECC, DHLGH, Environmental NGOs.

Action	388	Establish and Refine underlying soil data to measure the nutrient and soil carbon in our soils			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Start-up of the National Agricultural Soil Carbon Observatory carbon towers to refine grassland land management factors in association with the Signpost Farm Programme, including the identification of sites and installation of other infrastructure for establishing the measurement of carbon in Irish soils, quantifying carbon sequestration in Irish soils and understanding how it is affected by changes in management practice.		Infrastructure established and dataflow from flux towers commenced	Q1 2022	Teagasc	DAFM
Soil organic carbon sampling at signpost farms		SOC measurements from signpost farms taken	Q4 2022	Teagasc	DAFM
Establish a National Baseline for Soil Health including Nutrient and Soil Carbon		National Soil Sampling and Analysis Programme rolled out on a pilot basis	Q3 2022	DAFM	DAFM
Update the 2013 Teagasc Land Drainage and Soil Management Handbook		Report updated	Q4 2022	Teagasc	DAFM

Action	389	Establish a national soil moisture monitoring network			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish the national soil moisture monitoring network		10 soil moisture monitoring sites established across a range of soil types and land uses	Q2 2022	Teagasc	DAFM, Met Eireann, UCD, Moisture Monitoring Network Members

Action	390	Protect, enhance, and increase the number of hedgerows and trees on farms			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Incentivise carbon sequestration measures for hedgerows in the next CAP Strategic Plan (pending approval)		Hedgerow measures in CSP	Q4 2023	DAFM	
Incentivise carbon sequestration measures for trees in the next CAP Strategic Plan (pending approval)		Tree planting measures in CSP	Q4 2023	DAFM	

Action	391	Further refine hedgerow carbon sequestration			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publication of a review paper on hedgerow carbon sequestration		Scientific review paper	Q2 2022	Teagasc	DAFM
Completion of the FarmCarbon project on refining the carbon sequestration potential of above and below ground biomass of Irish hedgerows under a range of management intensities		Final report published	Q1 2023	Teagasc	DAFM
Refine hedgerow map through the National Land cover mapping project		Hedgerow map layer in LPIS developed	Q4 2022	DAFM	

Action	392	Identify opportunities for additional peatlands for enhanced rehabilitation, to bring significant benefits and contribute to Ireland's target of being carbon-neutral by 2050			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Scoping exercise on peatlands identification, (linking in with land use review)		Scoping report	Q4 2023	NPWS/D HLGH	DECC, DAFM

Action	393	Complete Phase 1 Evidential Review of the Land Use Review in line with the Programme for Government 2020			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Carry out work programme agreed by Steering Group to prepare evidential review		Evidential Review	Q3 2022	EPA	DAFM, DECC, NPWS/DHLGH, Teagasc, OSI, CSO

Action	394	Promotion of forestry activity			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Establish agroforestry research and demonstration sites to improve adoption of forestry and integration of animal and forestry agriculture, subject to planting approval	Demonstration	Q4 2021	Teagasc		

Action	395	Research and development in forestry			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Research investigation into the use of genomics to increase productivity of Sitka spruce e.g. DAFM funded project on Genomic Evaluation for the Sustainable Improvement of Sitka Spruce.	Report	Q4 2022	DAFM	Teagasc, third levels	
Monitoring existing research projects related to construction materials e.g. Exploitation and Realisation of Thinnings from Hardwood, Commercialisation of Irish Cross-Laminated Timber, Modular Mass Timber Building for the Circular Economy.	Report	Q4 2023	DAFM		

Action	396	Deliver the full Land Use, Land-use Change and Forestry flexibility available to Ireland in the context of the 2030 greenhouse gas emissions targets			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implementation of a pilot scheme on reduced management intensity to serve as “proof of concept” as a viable mitigation option		Pilot Scheme	Q4 2021	DAFM	Teagasc
Explore options for wider roll-out of the pilot		Roll-out of pilot subject to results	Q4 2022	DAFM	

Action	397	Assess the potential opportunities and demand for developing advanced bio-products development (biofuels and chemicals) from lignocellulose in Ireland			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Prepare and publish white paper		White paper published	Q3 2022	Coillte	EI, NUIG, UL

Action	398	Explore and identify opportunities to increase afforestation			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assessment of Afforestation Licence Application by DAFM		Assessment	Q4 2021	DAFM	

Action	399	Support biodiversity data collection			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Collate data on status of protected habitats and species, ecosystem services, natural capital accounts, land use, landcover		All relevant national, EU and global reporting obligations completed	Q1 2021	DHLGH	

Action	400	Build on the commitments made under the National Biodiversity Action Plan 2017-2021			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Draft the 4th National Biodiversity Action Plan with relevant stakeholders		The 4th National Biodiversity Action Plan published	Q4 2022	DHLGH	

Action	401	Assess and implement mitigation options on post-production peat extraction sites.			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete spatial land use mapping project to ensure robust National Inventory Systems are in place to report and account LULUCF emissions and removals (map will undergo continuous development)		Spatial mapping project complete	Q4 2022	EPA	DAFM, DECC, Teagasc, OSI
Assess the status and mitigation potential for other commercial and private peat extraction across Ireland		Research	Ongoing	EPA	NPWS/DHLGH , DECC

Action	402	Coordinate the actions in the Programme for Government regarding peatlands to maximise the benefits for biodiversity			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
The Peatlands Strategy Implementation Group will report on progress in the implementation of actions regarding peatlands additional to those set out in the National Peatlands Strategy 2015.		Progress reports on the implementation of the National Peatlands Strategy	Q1 2022	DHLGH	BnM, Coillte, DAFM, DECC, EPA, OPW

Action	403	Continue to raise awareness of biodiversity protection			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Facilitate grant schemes to Local, Authorities, Farming groups, Community groups, Environmental Non-governmental Organizations, Green schools, Heritage in Schools		Grantee submissions, workshops, social media	Varies depending on scheme	DHLGH	
Administer applications to the Local Authority Biodiversity Action Fund (€1million)		Projects awarded	Q4 2022	DHLGH	
Provision of funding to support peatland community initiatives		Grants awarded	Q4 2023	DHLGH	

Action	404	Research & development- Soil Tellus Soil Sampling Programme (National Geological, Geophysical & Geochemical Programme of GSI)			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continuation of soil sample collection as part of Tellus programme for baseline data and supporting research		Archive of soil samples covering 80 % of country.	Q4 2022	GSI/DECC	Teagasc
Collaborative Research Project Tera Soil to support smart agriculture		Completion of chemical analysis and spectroscopy on Tellus archive and commence product development	Q4 2022	GSI/DECC	Teagasc
Scoping study using Tellus Airborne Geophysics to map peat depth and carbon storage		Report	Q4 2023	GSI/DECC	BnM



Action	405	Conduct research and engage on how to support climate just transition in agriculture			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish a NESC working group including representatives from the Council and other experts, Departments and agencies including DAFM, Teagasc and Bord Bía		NESC working group established	Q1 2022	NESC	DAFM, DECC
Conduct research and engage on how to support climate just transition in agriculture		Interim Report Stakeholder Event	Q4 2022	NESC	DAFM, DECC
Finalise Report and submit to Government		NESC Council Report	Q1 2023	NESC	DAFM, DECC

Action	406	Restore and enhance natural systems to increase resilience – starting with managing hydrological processes, carbon processes and pollination		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Restoration plan published for 60 ha of blanket bog in the Wicklow Mountains National Park	Restoration Plan	Q2 2022	DHLGH	Private sector
Expand and catalogue features with benefits to climate through the NPWS/DHLGH Farm Plan Scheme, including those relating to trees, scrub, peat soils/bogs, drainage, species rich grassland, multispecies swards, soil care, extensification of practices	Features incorporated into Farm Plans	Q4 2022	DHLGH	
Restoration plan published for 40ha of blanket bog from coniferous forestry in Connemara Bog Complex SAC under active restoration	Restoration Plan	Q4 2022	Coillte	DHLGH
Restoration plan published for 116ha of blanket bog from coniferous forestry in Glenamoy Bog Complex SAC under active restoration	Restoration Plan	Q4 2022	Coillte	DHLGH

Action	407	Strengthen the Natura 2000 network by providing increased capacity for the enforcement of habitat regulations		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Establish a Wildlife crime team and a Conservation measures team	Wildlife crime and conservation measures teams established	Q4 2022	DHLGH	Garda Síochána, Customs Revenue

Action	408	Monitor phenological change including in phenological gardens			
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders	
Continuation of long-term data collection at 6 international phenological gardens across Ireland and submission of these data to Europe	Annual Report	Q4 2021	NPWS/DHL GH	OPW, Met Eireann DAFM, DECC, NBDC, Academia	
Rescue of historical phenological data	Research Report	Q4 2021	NPWS/DHL GH	CSO, Met Eireann, OPW, Academia	
Consolidation of a phenological network for Ireland including the integration of new technology for monitoring	Network consolidated	Q4 2021	NPWS/DHL GH	Academia	

Action	409	Educate school children through existing (Heritage Schools Programme, An Taisce Green Schools, Clean Coasts) and additional educational programmes to raise awareness of the links between biodiversity and climate change			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Visits to primary school children covering the links between Climate Change and Biodiversity through the Heritage in Schools programme		250 visits to 5000 primary school children	Q4 2021	Heritage Council	D/Education, An Taisce, DHLGH, eNGOs

Action	410	Engage stakeholders in all sectors to protect biodiversity in order to increase resilience to climate change			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Enact the Wildlife Amendment Bill 2016 which includes the Biodiversity Duty		Wildlife Amendment Bill 2016	Q4 2022	DHLGH	All stakeholders

Action	411	Develop a financial strategy to implement the Biodiversity Climate Change adaptation plan which includes public and private funds innovative financial mechanisms and enables investment from national to local level			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Expand the remit of Biodiversity Finance Plan to include Climate Adaptation Finance		Finance Plan published	Q4 2022	DHLGH	DPER, Private sector, Local Authorities

## Marine

Action	412	Increase Ireland’s knowledge base in terms of marine climate change impacts and blue carbon potential to inform the development of national mitigation actions			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Launch and award research proposals from the Marine Institute’s Blue Carbon Call 2021		Funded research projects	Q4 2021	MI	DAFM, DHLGH, EPA
Research reports and consideration of areas for further research or policy measures		Review of research completed	Q1 2024	MI	DAFM

Action	413	Increase ocean knowledge and support research and innovation, investing in research and innovation		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Provide support for innovative climate mitigation solutions through competitive calls for post-graduate, post-doctoral and industry-led research	Funded projects and associated deliverables	Q4 2021	MI	HEIs and marine industries
Ensure that the successor to the National Marine Research & Innovation Strategy 2017-2021 will have the key objective of “advancing towards a climate neutral ocean economy”	Successor plan to National MR&I strategy.	Q2 2022	MI	HEIs and marine industries
Provide support through the National Contact Point network to researchers, SMEs, and Industry to successfully access funding through the Horizon Europe Framework Programme, and Cluster 6 (Food, Bioeconomy, Natural Resources, Agriculture and Environment) in particular	Funded projects in Horizon Europe	Annual Reports in Q4	MI	HEIs and SME project participants
Fund and conduct marine climate research to support blue bioeconomy solutions towards climate neutrality. This includes co-funding with national and international partners e.g., Horizon 2020 Blue Bio ERA-Net Cofund (current) & the Horizon Europe Sustainable Blue Economy Partnership & Partnership for Safe & Sustainable Food Systems (from 2022-2023)	Funded projects and associated deliverables	Q4 2022	MI	HEIs and marine industries

Action	414	Establishment of a new Maritime Area Regulatory Authority to support a comprehensive, state-led marine consenting system better able to manage the step change in scale and complexity of offshore projects, and provisions for improved enforcement mechanisms			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establishment of the Maritime Area Regulatory Authority (MARA)		Establishment of the Maritime Area Regulatory Authority (MARA)	Q1 2023	DHLGH	DECC

Action	415	Develop a monitoring programme under the Marine Strategy Framework Directive that allows us to assess the effects of climate change			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
As per action		Monitoring Programme	Q4 2022	DHLGH/MI	DHLGH, DAFM

Action	416	Develop comprehensive legislation for the identification, designation, and management of Marine Protected Areas in Irish marine waters			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Enact legislation		Legislation enacted	Q4 2022	DHLGH	

Action	417	Increase broader public understanding of the effects of climate change on the sea			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Provide support to increase ocean literacy through initiatives like the Explorers Primary Education Programme, the Irish Ocean Literacy Network and other citizen engagement projects		Communication and outreach material, marine science module delivery in 14 coastal counties to c. 13,000 primary school children, maintain Sea Science Wild Atlantic exhibit at Galway City Museum	Q4 2022	DAFM	EPA/Department of Education, Camden Education Trust, European Commission
Foster collaborative efforts to ensure enhanced ocean literacy and ocean engagement e.g. through partnerships and collaborations across Ireland's marine sector		National Communications campaigns on importance of our oceans, such as Oceans of Learning	Ongoing	DAFM/MI/EPA/Department of Education	Camden Education Trust, European Commission

Action	418	Build on the success of the UNESCO Dublin Bay Biosphere and achieve further UNESCO designations for Irish sites, including the Lough Ree region			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Proposals developed by relevant local authorities in conjunction with NPWS/DHLGH and other stakeholders advanced and submitted to UNESCO		1 additional Biosphere proposal submitted to MABS	Q3 2022	DHLGH	

Action	419	Develop criteria for marine protected areas to include nature-based carbon storage and resilience to climate change and ocean acidification			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop Criteria		Set of criteria	Q4 2022	DHLGH	

Action	420	Develop a Demonstration Natural Capital Accounts model for the seafood sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Preparation of the demonstration Natural Capital Account		Communications	Q4 2021	BIM	DAFM, CSO, DHLGH, EPA, IFA Aquaculture, MI, 1Seafood Industry

Action	421	Identify areas of climate action appropriate to the Seafood Development Programme 2021-27			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Consider climate action investment needs within Seafood Development Programme		Seafood Development Programme - climate action investment included	Q1 2022	DAFM	European Commission, Bord Iascaigh Mhara , MI and Seafood Industry
Finalise SEA and AA Assessment Reports		Reports	Q1 2022	DAFM	European Commission, Bord Iascaigh Mhara , MI and Seafood Industry
Engage in a Public Consultation process		Report	Q1 2022	DAFM	European Commission, Bord Iascaigh Mhara , MI and Seafood Industry
Submit the Seafood Development Programme to European Commission		Approved SDP	Q2 2022	DAFM	European Commission

Action	422	Complete the National Strategic Plan for Sustainable Aquaculture, including climate measures			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete SEA, AA and Draft Plan following public consultation		Report	Q1 2022	DAFM	Sea food Industry
Publish SEA, AA and final NSPA and submit to the EU		Strategy	Q1 2022	DAFM	Sea food Industry



Action	423	Publish the Seafood Carbon Footprint Study, providing a detailed analysis of the carbon footprint of the catching and aquaculture sectors		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Define project scope and methods, carry out literature review, identify and collate relevant data including case study and predictive model prototype	Report	Q4 2021	DAFM/BIM	Sea food Industry
Finalise carbon footprint report, life cycle assessment and predictive model	Report	Q2 2022	DAFM/BIM	Sea food Industry, EU

Action	424	Complete a pilot study on improving the carbon efficiency of fishing gear design		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Test the reduction in drag by novel design of Nephrops fishing gear using load cells	Pilot/ Project report	Q4 2021	BIM	Seafood Industry

Action	425	Maintain participation rate of 96% in the Clean Oceans Initiative and bring the fishery harbour centres in line with the Port Reception Facilities Directive		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Continue to support vessel owners, promote and monitor participation in the initiative	Outreach / Quarterly reports	Quarterly reports commencing Q1 2022	DAFM	Seafood Industry
Work with 6 fishery harbour centres to update and review their facility plans in line with the Port Reception Facilities Directive and the Extended Producer Responsibility Directive	Co-ordination / Modernised waste management plans and industry engagement	Q4 2021	DAFM	Seafood Industry
Targeted communications and promotional campaign developed for the Clean Oceans Initiative	Outreach / Communications	Q1 2022	DAFM	Seafood Industry

Action	426	Develop a study to test different seaweeds cultivation techniques for eventual inclusion in cattle feed to reduce methane production			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Deployment to sea of gametophytes for on-growth, with a view to examining different settlement media and marine survival in traditional culture systems		Report and deployment at sea	Q4 2021	DAFM	Agri food industry
Report on years findings and communication to industry		Project report	Q4 2022	DAFM	Agri food industry

## The Circular Economy

Action	427	Publish a Whole-of-Government Circular Economy Strategy and promote the Circular Economy, including focus on awareness raising, Green Public Procurement and international partnerships			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish a whole-of-Government Circular Economy Strategy setting out overall national policy in relation to circular economy		Strategy published	Q4 2021	DECC	
Establish a national Circular Economy platform which will report on an ongoing basis		Scoping document for Platform	Q3 2022	DECC	
Identify opportunities for international cooperation on Green Public Procurement projects		Report on seeking partnerships	Q4 2022	DECC	OGP

Action	428	Enact the Circular Economy Bill 2021			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Enact the Circular Economy Bill 2021		Enactment of primary legislation	Q4 2021	DECC	

Action	429	Establish a Circular Economy Innovation Scheme, focusing on providing funding for a limited number of regional and/or national scale circular economy projects, with the capacity to significantly raise awareness of the circular economy and/or improve consumption patterns in relation to specific product categories or within specific sectors			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establish an annual process whereby projects are funded		Process established	Q4 2022	DECC	

Action	430	Strengthen the regulatory and enforcement frameworks for the waste collection and management system, to maximise circular economy principles			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Revise the national standardised list of items accepted in the mixed dry recycling bin to capture more recyclable material		New national recycling list introduced	Q4 2021	DECC	
Complete revision of 2006 Best Practice Guidelines on the Preparation of Waste Management Plans for Construction and Demolition (C&D) Projects		Revised guidelines published by EPA	Q4 2021	EPA	DECC
Scoping exercise on geochemical characterisation of the Dublin Boulder Clay, with view to refining the management of excavated soil and stone, a key C&D waste material, in urban Dublin		Completion of scoping study, recommendations made for further work	Q1 2022	GSI	DECC, EPA

Action	431	Reduce demand for virgin raw materials and support re-use, by keeping material out of waste streams through streamlined End-of-Waste and By-Product decision-making processes and national End-of-Waste decisions for specific Construction and Demolition waste streams			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Enact necessary legislative changes via the Circular Economy Bill 2021		Enactment of primary legislation	Q4 2021	DECC	EPA

Action	432	Reconfigure the current National Waste Prevention Programme as a Circular Economy Programme for Ireland to drive the transition for business, citizens and the public sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish the Circular Economy Programme and activate its measures		Publication of the programme	Q4 2021	DECC	EPA

## The Circular Economy

Action	433	Continue to drive the rollout of CirculEire, the national circular economy platform		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Collaborate with the Irish Research Manufacturing Technology Centre team to maximise the impact of Circuleire	Increase in companies adopting circular principles	Q4 2021	EPA/DECC	DETE, Climate KIC, Irish Research Manufacturing Technology Centre, EI

Action	434	The High-Level National Bioeconomy Implementation Group will report to Government and develop a detailed Bioeconomy Action Plan in 2022		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Report to Government with an update on the implementation of the National Bioeconomy Policy Statement	Government update	Q1 2022	DECC	High Level Implementation Group, DAFM
Agree and set out a Bioeconomy Action Plan for a three-year period	Detailed Bioeconomy Action Plan	Q3 2022	DECC	High Level Implementation Group, DAFM

Action	435	The Bioeconomy Forum will contribute to the development of actions in future iterations of key policies and strategies		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Provide recommendations and advice to aid the advancement of the Bioeconomy. This process will result in recommendations for future iterations of the Climate Action Plan, key policies and other key Government strategies	Expert advice for future Climate Action Plan Actions	Q2 2022	DECC	National Bioeconomy Forum, DAFM

Action	436	The Bioeconomy will be reflected across circular economy strategies and policies where relevant, and regulatory barriers will be examined			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Where appropriate, the Bioeconomy will explicitly be included in Circular Economy Whole of Government Strategy		Bioeconomy referred to within Circular Economy Whole of Government Strategy	Q4 2021	DECC	National Bioeconomy Forum, DECC
Identify the key regulatory barriers to the development of the bioeconomy		Regulatory analysis conducted	Q2 2022	DECC	High Level Implementation Group, EPA, SEAI, DECC

Action	437	Funding mechanisms for bioeconomy innovation at demonstration level will be explored, aiming to achieve coherence across national funds			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Engage with funding structures with a view to include demonstration actions within the Bioeconomy, corresponding to Technology Readiness Level levels 6 to 7		Analysis of the funding structures available, and engagement with funding bodies undertaken	Q2 2022	DAFM	High Level Implementation Group, DPER, DRCD, DECC

Action	438	Opportunities to increase skills in the bioeconomy will be explored			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Identify where bioeconomy education, training and skill gaps currently exist and how that might be remedied		Report on Skills/research gaps and potential solutions	Q3 2022	DECC	High Level Implementation Group, National Bioeconomy Forum, DETE, DFHERIS, Teagasc, SOLAS, HEA, Skillnet Ireland, DAFM
Assess value chains based on diversified plant protein sources in terms of their economic, environmental, and social impact on the rural economy and key actors within it (e.g., primary producers and rural dwellers) and co-design path		Areas of the potential growth in the bioeconomy identified	Q1 2022	Teagasc	UCD (overall project led)

Action	439	Develop a policy statement on mineral exploration and mining that supports the sustainable supply of minerals required to transition to a climate neutral economy, particularly in terms of the materials required for renewable energy, energy storage (batteries), the move to a digital economy, and electrifying the transport system			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete SEA/AA		Publication of the SEA Statement and final AA Natura Impact Assessment	Q4 2021	DECC	
Support policy development through targeted research into Irelands mineral potential and current use and value of Irish mineral production		Research Reports, including a Mineral Prospectively Mapping project for the NW midlands area	Q4 2021	GSI	
Finalise policy statement.		Policy Statement finalised, subject to Government approval	Q4 2021	DECC	

Action	440	Develop a Food Waste Prevention Roadmap that sets out a series of actions to deliver the reductions necessary to halve our food waste by 2030 and promote our transition to a circular economy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish Roadmap and commit resources to the EPA to undertake national food waste prevention activities		Final roadmap published	Q4 2021	DECC	

Action	441	Enhance food waste segregation, collection and treatment (anaerobic digestion and composting)			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implement further roll out of segregation and collection of commercial and household food waste, and engage in education and awareness, and enforcement activities		Awareness and enforcement campaign launched	Q2 2022	DECC	

Action	442	Develop and implement a new Regional Waste Management Plans that will guide our transition to a circular economy			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Publish Regional Waste Management Plans		New Plans published	Q1 2022	DECC	



Action	443	Develop new and expanded environmental levies to encourage reduced resource consumption and incentivise higher levels of re-use and recycling			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Introduction of a new Waste Recovery levy		Waste Recovery levy in place	Q1 2022	DECC	
Introduction of a new levy on disposable coffee cups		Disposable coffee cup levy in place	Q1 2022	DECC	
Introduction of a Deposit Return Scheme (DRS) for plastic drinks bottles and aluminium cans		DRS scheme launched	Q3 2022	DECC	
Identify appropriate measures to limit environmental impacts of medium weight plastic bags		Measures identified	Q4 2022	DECC	
Banning of a range of SUP items including non-medical single use products, containers for hotel toiletries & condiment items, disposable drinks cups		Reduced consumption of SUP items	Q2 2023	DECC	
Product criteria in relation to levies on single use disposable containers and packaging will be established		New levies on specified disposable items in place	Q4 2023	DECC	

Action	444	Amend the Policy Statement on Petroleum. Exploration and Production and amend legislation to copper fasten the Programme for Government commitment on petroleum and gas exploration and extraction.			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Finalise policy statement on Petroleum and Gas Exploration and Production Activities as part of Ireland’s Transition to a Low Carbon Economy.		Policy finalised, subject to Government approval.	Q4 2021	DECC	

## Ireland's International Action on Climate Breakdown

Action	445	Make efforts through our diplomacy to ensure that climate change is recognised as a driver of instability and climate action is an opportunity for peacebuilding in multilateral fora where appropriate.			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Co-chair the Informal Experts Group on Climate and Security for 2021, and through this role and our contribution at the Security Council, strengthen the integration of climate considerations into discussions and resolutions on peace and security		Ensure that, where appropriate, the mandates and resolutions of the UN Security Council include language on climate change.	Q4 2022	DFA	
Through our multilateral diplomacy at the EU, UN and other fora highlight the risks that climate change poses to international peace and stability and propose mitigating actions. Highlight also the opportunities for peacebuilding through climate action		Facilitate, and contribute to, discussions in multilateral fora on climate change and, peace and stability.	Q4 2022	DFA	

## Ireland's International Action on Climate Breakdown

Action	446	Place climate action, especially for Least Developed Countries and Small Island Developing States, at the heart of all development cooperation and policy partnerships, as well as our engagement in multilateral processes			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Ensure climate action, especially for Least Developed Countries and Small Island Developing States, is reflected in Ireland's bilateral and multilateral funding channels		Provision of financial support on key thematic priorities including Adaptation, Climate and Security and the Sustainable Blue Economy as evidenced in the annual Climate Finance report and Climate Finance Roadmap	Q4 2021	DFA	DECC, DFIN, DAFM
Ensure climate action, especially for Least Developed Countries and Small Island Developing States, is reflected in the new Climate Diplomacy Strategy		Climate Diplomacy Strategy	Q2 2022	DFA	DECC, DFIN, D/Taoiseach, DAFM, DHLGH
Support efforts in Least Developed Countries and Small Island Developing States to develop innovative solutions to climate change challenges, including technology and data innovations		Provision of financial support to innovative challenge funds and projects that enhance data, capacities and technology	Q4 2022	DFA	DFA

## Ireland's International Action on Climate Breakdown

Action	447	Constructive participation in negotiations on a new UN Convention on the Law of the Sea Implementing Agreement		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Constructive participation in negotiations on a new UN Convention on the Law of the Sea Implementing Agreement for the conservation and sustainable use of marine biological diversity in areas beyond national jurisdiction	Conclusion of new Implementing Agreement to deliver enhanced protection for the high seas and deep sea bed	Q4 2022	DFA	DHLGH

Action	448	Double, at least, the percentage of ODA spending on climate finance by 2030, and report on our expenditure each year		
Steps Necessary for Delivery	Proposed Output	Timeline	Lead	Key Stakeholders
Annual reports produced on international Climate Finance expenditure (including ODA) across Government Departments	Annual Climate Finance report	Annually in Q4	DFA	DFIN, DECC, DAFM
Climate Finance Roadmap developed in collaboration with other Departments	Climate Finance Roadmap	Q1 2022	DFA	DFIN, DECC, DAFM

## Ireland's International Action on Climate Breakdown

Action	449	Develop and implement approaches to climate-proof all ODA, and continue to include climate as a core theme in strategy development in countries where Ireland has a significant development cooperation programme			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop and implement methodology for climate proofing ODA		Methodology finalised and, support and training for implementation planned	Q2 2022	DFA	
Provide technical support to HQ Units and Missions to ensure climate action is included in their strategic and business planning		Updated outreach/training provided, which ensures that climate action is central to developing all new Mission Strategies	Q3 2022	DFA	

Action	450	Promote the development of the sustainable finance sector internationally, including preparing a Climate Finance Roadmap			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Monitoring of and reporting on sustainable finance measures within the 2021 Ireland for Finance Action Plan		Progress Report	Q3 2022	DFIN	

Action	451	Work with like-minded European States to promote and support changes to European energy laws – in particular the upcoming revision of the EU's Gas Directive and Gas Regulation – in order to allow the importation of fracked gas to be restricted			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Promote the inclusion of measures to limit the importation of fracked gas in the EU gas legislation		Proposal as part of the revised EU gas legislation to limit the importation of fracked gas.	Q4 2022	DECC	DFA

## Ireland's International Action on Climate Breakdown

Action	452	Work with international partners to promote the phasing out of fracking at an international level within the wider context of the phasing out of fossil fuel extraction			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Promote the phasing out of fracking through multilateral diplomacy at the EU and internationally		Engagement with Member States, other countries, and international bodies to promote the phasing out of fracking at an international level.	Q4 2022	DECC	DFA

## Adaptation

Action	453	Deliver Climate Ireland as the national platform for data, information and decision supports on climate impacts and adaptation			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Provide support (such as provision of information/data, decision tools and capacity building) to sectors and Local Authorities tasked with developing and implementing adaptation strategies		Published relevant and up to date data on website	Q3 2022	EPA	LAs, DECC, Sectors
Support institutional reporting on adaptation report to the UNFCCC		Up to date data supplied for Report required to UNFCCC	Q4 2022	EPA	DECC
Support institutional reporting on adaptation under the EU Energy Union Governance Regulation		Up to date data supplied for Report required to EU	Q1 2023	EPA	DECC

Action	454	Build local and regional resilience to the impacts of climate change through delivery of Local Authority Adaptation Strategies as required under the National Adaptation Framework			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Implement Local Authority Adaptation Strategies prepared under National Adaptation Framework		Report on progress in implementing	Q4 2022	CARO	LAs, DECC

## Adaptation

Action	455	Review National Adaptation Framework			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Public Consultation on existing NAF		Launch Public Consultation	Q1 2022	DECC	DECC, ENGOs, General Public
Report to Minister results of Review Process		Report to Minister	Q3 2022	DECC	

Action	456	Commence pilot project to identify a suitable approach for the use of Climate Change Adaptation Indicators at national level			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Scope out and agree Climate Indicators in an existing national adaptation sector		A draft set of indicators for one or more national adaptation sectors	Q2 2022	DECC	Sectors
Agree changes to national guidance to reflect agreed methodology for the use of indicators in adaptation planning		Approach to the use of indicators in adaptation planning processes agreed by National Adaptation Steering Committee for use in next cycle of adaptation plans	Q3 2022	DECC	Sectors, EPA, CCAC

Action	457	Further develop Ireland’s national climate change risk assessment capacity to identify the priority physical risks of climate change to Ireland			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Establishment of a Steering Group to scope out the requirements of a national climate change risk assessment.		Establishment of a Steering Group	Q1 2022	DECC	Sectors, Local Authorities, EPA, CCAC
Steering group Scoping report submitted to Minister		Report on options to Minister	Q4 2022	DECC	Sectors, Local Authorities, EPA, CCAC



## Adaptation

Action	458	Ensure that six-yearly review of the Flood Risk Management Plans will be informed by the most up-to-date research and projections of climate change on flooding and flood risk; and include other sector-led adaptation measures being implemented under the National Adaptation Framework			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review and update the existing Flood Risk Management Plans, and progress in implementation of the Sectoral Adaptation Plans and the Local Adaptation Strategies		Flood Risk Management Plans	Q4 2021	OPW	Local Authorities, Waterways Ireland, ESB, Irish water

Action	459	Assess appropriate adaptation measures for those existing flood relief schemes, where climate change may in time impact the current standard of protection			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Identify a list of Scheme Adaptation Plans required and develop a five-year programme of works		Report setting out programme of Scheme Adaptation Plans	Q4 2022	OPW	Local Authorities
Complete a pilot Scheme Adaptation Plan for an existing flood relief scheme.		Report on lessons and recommendations from pilot	Q4 2022	OPW	Local Authorities

Action	460	Undertake a Scheme Adaptation Plan during the detailed development of new flood relief schemes, setting out how climate change has been taken into account during the design and construction, and what adaptation measures might be needed into the future			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete a pilot Scheme Adaptation Plan for a new flood relief scheme, including a review of national and international best practice, to inform the preparation of a Guidance Note to project teams.		Report on lessons and recommendations from pilot	Q4 2021	OPW	Local Authorities

## Adaptation

Action	462	Provide for the inclusion of potential increases in flood damages as part of the economic cost-benefit analysis for future flood relief schemes			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete an independent review of the existing economic appraisal of Flood Relief Schemes, including a review of the approach to the consideration of damages due to Climate Change.		Report making recommendations on the economic appraisal of Flood Relief Schemes	Q4 2021	OPW	D/PER

Action	463	Ensure that potential future flood information is obtained and/or generated through a Flood Risk Assessment that is then used to inform suitable adaptation requirements, within the planning and development management processes, in line with the Guidelines on the Planning System and Flood Risk Management			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review and respond to consultations on draft Development Plans, Local Area Plans, and issues papers, advising on the consideration of future flood information		Letters to Planning Authorities in response to draft Development Plans, Local Area Plans, and issues papers	Q4 2022	OPW	OPR, Planning Authorities
Provide training to planning authorities on the consideration of Flood Risk Management and climate change impacts via the Local Authority Climate Action Training Programme		Training events	Q4 2021	OPW	CAROs, Local Authorities

## Adaptation

Action	464	Continue to enhance knowledge and capacity with regards to Nature-based Catchment Management Solutions, and assess their potential to be part of future flood relief schemes			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Complete a sample NbCMS assessment to identify and map opportunities as part of a Flood Relief Scheme		Maps identifying locations with opportunities to implement NbCMS	Q4 2021	OPW	Local Authorities
Through the EPA/OPW co-funded research project SLOWWATERS, undertake a review and evaluation of international best practice in NbCMS		Report on international best practice in NbCMS	Q4 2022	OPW	EPA
Draft a sample Feasibility Assessment to assess the feasibility of implementing NbCMS for flood risk reduction as part of a Flood Relief Scheme		NbCMS Feasibility Assessment Report	Q4 2022	OPW	Local Authorities, EPA, NPWS/DHLGH, DECC

Action	465	Build on Groundwater Flood Mapping delivered by GSI			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continue to develop groundwater flood forecasting capability		Feasibility Study Report into the potential for a groundwater flood forecasting system	Q4 2022	GSI	Local Authorities, OPW, Met Eireann
Drilling and installation of monitoring boreholes and modelling of results.		Groundwater monitoring reports and data for 6 long term groundwater monitoring sites	Q4 2022	GSI	DECC; EPA; Irish Water; National Federation of Group Water Schemes; Water Sector

Action	466	Maintain and further develop national landslide mapping related to climate change and land use			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Maintain and update the national landslide susceptibility map and database to further develop a methodology for a National Landslide Hazard Map with incorporation of climate change modelling		National map and database	Q4 2022	GSI	Met Eireann
Assess the contributing factors which lead to 3 major peatland failures in 2020 for use by agencies developing policy relating to planning and land use		Technical report	Q4 2022	GSI	NPWS/DHLGH/EPA/Met Eireann

Action	467	Develop and publish coastal vulnerability mapping and coastal erosion databases for the east and south coasts of Ireland			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
CVI Integration in online mapping (GIS) environment		National CVI map (East and South coastline)	Q4 2022	GSI	DHLGH, Local Authorities, CARO, OPW
Roll out of Coastal Vulnerability Index (CVI) processing and compilation of thematic layers		CVI Thematic layers	Q4 2022	GSI	DHLGH, Local Authorities, CARO, OPW
Coastal erosion processing using satellite and airborne imagery spanning the last 20 years		Coastal Erosion rates (2000-2020)	Q4 2022	GSI	DHLGH, Local Authorities, CARO, OPW

Action	468	Continue to develop flood forecasting capability, including the development of coastal and marine monitoring and predictive capability			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continue to develop fluvial (river) flood forecasting capability in the context of increased flooding risk related to climate change		National and fluvial flood forecasting models built, SWFLM nominated and Training complete.	Q1 2022	DHLGH - Met Éireann	OPW, Local Authorities
Develop pluvial flood forecasting capability in the context of increased flooding risk related to climate change.		Nowcasting and short-range NWP systems developments to contribute to better forecasts	Q1 2022	DHLGH - Met Éireann	
Continue to develop coastal monitoring in the context of increased flooding risk related to climate change		Wave and current sensors trial with CIL-on-CIL buoys around the coast of Ireland assisting in observing wave heights in a changing climate and in modelling	Q3 2022	DHLGH - Met Éireann	CIL
Continue to develop coastal flood forecasting capability in the context of increased flooding risk related to climate change.		Report on research project on sea level rise due to climate change based on an atmosphere-ocean-wave coupled NWP system	Q4 2022	DHLGH - Met Éireann	SEAI, MI, OPW

Action	469	Continue to improve the understanding of, and the communication around, Ireland's changing climate and the co-creation and delivery of climate services			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continue to work in state-of-the-art climate modelling.		EC-Earth-Veg CMIP6 SSP simulations completed, HCLIM SSP2-4.5 downscaling simulation completed, HCLIM SSP5-8.5 downscaling simulation completed, HCLIM model development started, and Future Weather Research Fellowship started.	Q2 2022	DHLGH - Met Éireann	EPA, Marine Institute
Continue to develop and provide climate services in support of climate-sensitive decisions with regards to flooding, droughts, heatwaves, etc.		TRANSLATE - Interim report on standardised climate projections for Ireland.	Q2 2022	DHLGH - Met Éireann	Adaptation sector
Continue to expand climate communication and the availability of climate services, data, and information to the public and users.		Standardised Core Climate Indices published online.	Q3 2022	DHLGH - Met Éireann	

Action	470	Continue to improve Ireland's national climate monitoring capabilities through the delivery of advanced, sustainable, and long-term, climate and environmental monitoring programmes			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continue the participation in international monitoring programmes such as WMO's Global Atmospheric Watch (GAW) and the European Monitoring and Evaluation Programme (EMEP).		Start of research project to review Met Éireann's environmental monitoring processes and best-practices and Intercomparison of automatic SO <sub>2</sub> , Nox samplers with manual air-filter sampling system.	Q1 2022	DHLGH - Met Éireann	
Continue the modernisation of the weather radar network by procuring Shannon replacement dual-pol radar.		Shannon replacement dual-pol weather radar fully operational for improved weather and climate monitoring.	Q2 2022	DHLGH - Met Éireann	OPW, Local Authorities, IAA
Continue the modernisation of the surface climate and weather observation monitoring station network.		81 automated climate monitoring stations completed.	Q4 2022	DHLGH - Met Éireann	
Maintain and develop Ireland's National Climate Archive supporting the provision of a wide range of quality assured data, used to define the climate of Ireland.		Migration of National Climate Archive to new infrastructure, Addition of automatic QC system for 81 automatic climate surface observing stations and Implementation plan for modernisation of QA/QC systems for surface observing stations.	Q4 2022	DHLGH - Met Éireann	

## Adaptation

Action	471	Continue to support National Emergency Management during extreme weather events			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continue to develop impact-based decision-making products and services for weather events in general and extreme weather events		Short report on new Impact based decision-making products and services.	Q1 2022	DHLGH - Met Éireann	Local Authorities, Irish Water, Coastguard, SAR, Gardaí, HSE, Public
Continue to improve the communication and availability of dissemination products during extreme weather events, e.g., website, social media, weather warnings		Short report on new Dissemination products and services.	Q1 2022	DHLGH - Met Éireann	SAR, LAs, Public, Media
Continue to work in partnership with decision makers and with National Emergency Management organisations		Increased Network of stakeholders developed	Q4 2022	DHLGH - Met Éireann	OEP, GTF

Action	472	Publish a new and strengthened River Basin Management Plan for the period 2022-2027			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Engagement with Key Stakeholders		Views sought of key stakeholders	Q1 2022	DHLGH	DAFM, Irish Water, OPW, DECC, EPA, LA's
Publication of final RBMP for 2022-2027 for the protection and improvement of Ireland's waters		Overall strategy published	Q4 2022	DHLGH	DAFM, Irish Water, OPW, DECC, EPA, LA's



## Adaptation

Action	473	Explore options for the delivery of a National Implementation Strategy for Nature-Based Solutions to the Management of Rainwater and Surface Water Runoff in Urban			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Drafting of scoping document based on views of stakeholders obtained and detailed research		Draft scoping document submitted for approval	Q4 2021	DHLGH	DHLGH, DoT, LAs, OPW
Publication of the scope for the delivery of a National Implementation Strategy through the River Basin Management Plan making process		Scoping document for the delivery of a National Implementation Strategy	Q4 2021	DHLGH	DHLGH, DoT, LAs, OPW

Action	474	Develop interim guidance on best practice for Solutions to the Management of Rainwater and Surface Water Runoff in Urban Areas			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Drafting of interim guidance based on views of key stakeholders obtained and further research undertaken		Draft interim guidance document submitted for approval	Q4 2021	DHLGH	DHLGH, LAs, TII, NTA, OPW
Publication of interim guidance on best practice for Nature based Solutions to the Management of Rainwater and Surface Water Runoff in Urban Areas		Interim guidance on the best practice for utilising Nature-Based Solutions	Q4 2021	DHLGH	DHLGH, LAs, TII, NTA, OPW

## Adaptation

Action	475	Review of the Sectoral Adaptation Plan for the Water Quality and Water Services Infrastructure sectors			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Amendments based on review of current Adaptation Plan for the water sectors with input from key stakeholders		Updated Sectoral Adaptation Plan for the Water Quality and Water Services Infrastructure sectors for Ministerial Approval	Q4 2022	DHLGH	Irish Water, OPW, LA's, DECC
Publication of Updated Sectoral Adaptation Plan for the Water Quality and Water Services Infrastructure sectors		Adaptation Plan for the Water Quality and Water Services Infrastructure sectors published	Q1 2023	DHLGH	Irish Water, OPW, LA's, DECC

Action	476	Adopt the four regional plans under Irish Water's National Water Resources Framework Plan			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Public consultation on the draft Regional Water Resources Plan: Eastern and Midlands		Public consultation for the Eastern and Midlands region launched	Q4 2021	Irish Water	DHLGH, CRU, EPA, LA's
Publication of final Regional Water Resources Plan: Eastern and Midlands		Delivery of Plan Level Preferred Approaches for the Eastern and Midlands Region	Q2 2022	Irish Water	DHLGH, CRU, EPA, LA's
Public consultation on the draft Regional Water Resources Plan: South West		Public consultation for the South West region launched	Q2 2022	Irish Water	DHLGH, CRU, EPA, LA's
Publication of final Regional Water Resources Plan: South West		Delivery of Plan Level Preferred Approaches for the South West region	Q3 2022	Irish Water	DHLGH, CRU, EPA, LA's
Public consultation on the draft Regional Water Resources Plan: North West		Public consultation for the North West region launched	Q3 2022	Irish Water	DHLGH, CRU, EPA, LA's
Publication of final Regional Water Resources Plan: North West		Delivery of Plan Level Preferred Approaches for the North West region	Q4 2022	Irish Water	DHLGH, CRU, EPA, LA's
Public consultation on the draft Regional Water Resources Plan: South East		Public consultation for the South East region launched	Q4 2022	Irish Water	DHLGH, CRU, EPA, LA's
Publication of final Regional Water Resources Plan: South East		Delivery of Plan Level Preferred Approaches for the South East region	Q1 2023	Irish Water	DHLGH, CRU, EPA, LA's

Action	477	Develop clear leadership across the health sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Continued strong public health participation in national Adaptation and Mitigation teams and in Government Task Force (GTF) on Emergency Planning		Reflection of health considerations in national adaptation and mitigation actions of GFT	Q4 2021	D/Health	Relevant Govt Departments, HSE
Future proofing health investment including major infrastructure projects to prevent costly maladaptation		Climate-sensitive capital investment	Q4 2021	D/Health	HSE, other bodies under Dept Aegis
Climate change risks to feature in organisational risk registers		Recognition of climate risks in Corporate and Divisional Risk Registers	Q4 2021	D/Health	HSE, other bodies under Dept Aegis
All organisations to which this plan applies to identify a person with lead responsibility for climate change action		Coordination of climate actions across bodies under the aegis of the Department	Q2 2022	D/Health	HSE, other bodies under Dept Aegis
Health sector bodies state-funded or grant-aided to reflect on and embed relevant adaptation actions within their strategic and operational planning		Climate-proofing of capital and current expenditure allocated by Department of Health	Q2 2022	D/Health	HSE, other bodies under Dept Aegis

## Adaptation

Action	478	Develop a better understanding of the health impacts of climate change in Ireland			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assessment of collaboration with research organisations and academic institutions in respect of investigation of relevant health impacts		Assessment of current state of play, followed by identification of appropriate follow-up	Q4 2021	D/Health	Whole of Government
Convene early stakeholder consultation with relevant research organisations to ensure a shared focus on common sectoral priorities and to address research gaps		Engagement with national climate research programmes to assess consideration of health impacts	Q4 2021	D/Health	DECC, EPA, others as appropriate

Action	479	Ensure effective health service planning for climate resilience			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assess adequacy of mechanisms for Public Health Risk Assessments and Public Health Medical Advice – both in planning and during acute events		Adequate service provision during extreme weather events	Q4 2021	D/Health	HSE, other bodies under Dept Aegis
Plan for possible changes in volume and pattern of healthcare demand specifically due to climate-related impacts (such as vector-borne diseases dengue, malaria, and Lyme; mental health needs; and increased migration).		Health policy development informed by existing and anticipated climate impacts: plan assessed	Q4 2022	D/Health	HSE, other bodies under Dept Aegis

## Adaptation

Action	480	Identify and build collaborative relationships with key stakeholders to guide implementation of health-related climate policies			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Hold an early stakeholder consultation to focus on practical actions for next Climate Action Plan.		Development of actions to drive climate action across health sector	Q1 2022	D/Health	HSE, other bodies under Dept Aegis
Multi-level engagement with CAROs		Engagement with CAROs	Q1 2022	D/Health	Whole of Government
Identify arrangements for ongoing engagement with key stakeholder groups and ways to ensure integration of their work		Development of a forum for broader health sector climate engagement	Q2 2022	D/Health	HSE, other bodies under Dept Aegis

Action	481	Develop a new public health heat wave plan and seek to ensure more uniform system-wide planning for severe weather			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assessment of state of play in development of a new public health heat wave plan		Foundation for development of plan or assessment of adequacy of existing plan	Q4 2021	D/Health	

Action	482	Conduct a major survey of health infrastructure resilience to severe weather events: wind events, heat waves, flooding, and extreme cold snaps			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assessment of adequacy of most recent survey of health infrastructure resilience to determine next steps		Survey results report	Q4 2021	D/Health	HSE

## Adaptation

Action	483	Assess implementation of the National Skin Cancer Prevention Plan with focus on actions relevant to climate change			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assessment to determine next steps		Subsequent actions will be informed by this assessment	Q4 2021	D/Health	HSE

Action	484	Assess the adequacy of UV-related cancer registration and epidemiology based on emerging climate change requirements			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assessment to determine next steps		Subsequent actions will be informed by this assessment	Q4 2021	D/Health	National Cancer Registry Ireland

Action	485	Review the current and emerging building infrastructure and its potential associations with climate-sensitive UV health impacts in the indoor and outdoor architectural environment			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Review of building infrastructure		Results of review	Q4 2022	D/Health	All relevant sectors

Action	486	Build and refine Irish-specific climate change epidemiology relating to air pollution and identify risk groups			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assess adequacy of number of ambient air quality monitoring stations		Subsequent actions will be informed by this assessment	Q2 2022	D/Health	Research Community, EPA
Develop tools for surveillance and monitoring of the effectiveness of health adaptation measures		Improved assessment of air quality	Q4 2022	HSE	EPA, D/Health

## Adaptation

Action	487	Undertake climate change adaptation research in the electricity and gas networks sector			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Identify energy specific climate research required	Project topics identified		Q4 2021	SEAI	Met Éireann, Energy network companies, electricity generators; EPA

Action	488	Continue to build on adaptation measures in the electricity and gas networks sector already in place			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Identify measures that are working well in other jurisdictions and assess whether they can also be deployed in Ireland	Best practise measures identified		Q1 2022	Energy network companies, private generators & agencies	DECC Energy Networks Climate Change Adaptation Working Group

Action	489	Mainstream climate change adaptation into general energy policy, and strategic objectives to 2050			
Steps Necessary for Delivery	Proposed Output		Timeline	Lead	Key Stakeholders
Assess level of climate change adaptation in energy policy and make recommendations, as appropriate	Report containing recommendations		Q1 2022	DECC	Energy network companies; SEAI



## Adaptation

Action	490	Harmonise the collection of baseline data on the costs to business and the public arising from past extreme weather events in the electricity and gas networks sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Develop justification criteria for mitigation measures by utilities based on avoided costs to wider economy from such mitigation measures		Justification criteria developed	Q1 2022	EPA	Met Éireann, Energy network companies and agencies

Action	491	Identify areas vulnerable to impacts of climate change in the electricity and gas networks sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Energy network companies to continue to identify vulnerable areas where assets are located		Update on progress towards goal provided	Q3 2022	Planning authorities	CRU, Energy network companies, SEM Committee

Action	492	Identify measures required to adapt to climate change impacts on vulnerable infrastructure in the electricity and gas networks sector			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Monitoring and enhanced maintenance of energy assets		Update on progress towards goal provided	Q3 2022	CRU	Energy network companies
Refurbish / Upgrade energy assets		List of measures	Q3 2022	CRU	Energy network companies
Installation of Flood Defences		Update on progress towards goal provided	Q4 2022	CRU	Energy network companies
Relocation of energy assets		Update on progress towards goal provided	Q4 2022	CRU	Energy network companies

## Adaptation

Action	493	Continue to develop and improve timely communications to customers during weather events, including information provision to users on the status of electricity and gas network infrastructure, how they will be affected, and when normal services will be restored; and increase public awareness of the benefits of the measures being taken to ensure resilience to build public support for climate adaptation measures			
Steps Necessary for Delivery		Proposed Output	Timeline	Lead	Key Stakeholders
Assess existing communications procedures; identify gaps and make recommendations as appropriate		Update on progress towards goal provided	Q4 2022	Energy network companies	CRU, DECC, SEAI





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Department of the Environment, Climate and Communications

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