

CLIMATE ACTION PLAN 2019

To Tackle Climate Breakdown

Annex of Actions



Rialtas na hÉireann
Government of Ireland

Contents

- Glossary of Acronyms 04
- Where We Stand. 07
- Governance of the Challenge. 08
- Carbon Pricing and Cross-cutting Policies 10
- Electricity. 14
- Enterprise. 26
- Built Environment 29
- Transport 44
- Agriculture, Forestry and Land Use 53
- Waste and the Circular Economy 69
- Public Sector Leading By Example. 72
- Ireland’s International Action on Climate Breakdown 76
- Citizen Engagement, Community Leadership and Just Transition 77
- Adaptation 87

Glossary of Acronyms

ABP	An Bord Pleanála
AD	Anaerobic Digestion
AGO	Office of the Attorney General
AIEA	Association of Irish Energy Agencies
AMETS	Atlantic Marine Energy Test Site
BDGP	Beef Data and Genomics Programme
BEEP	Beef Environmental Efficiency Pilot
BER	Building Energy Rating
BIK	Benefit-in-kind
BIM	Bord Iascaigh Mhara
BITC	Business in the Community Ireland
CAP	Common Agricultural Policy
CAROs	Climate Action Regional Offices
CCMA	County and City Management Association
CCS	Carbon Capture and Storage
CEP	Circular Economy Package
CIE	Córas Iompair Éireann
CIL	Centre for Independent Living
CMI	Cement Manufacturers Ireland
CNG	Compressed Natural Gas
CO ₂	Carbon Dioxide
CPPA	Corporate Power Purchase Agreement
CRU	Commission for Regulation of Utilities
CSR	Corporate Social Responsibility
DAFM	Department of Agriculture, Food and the Marine
DBEI	Department of Business, Enterprise and Innovation
DCCAIE	Department of Communications, Climate Action and Environment
DCHG	Department of Culture, Heritage and the Gaeltacht
DEASP	Department of Employment Affairs and Social Protection
DEC	Display Energy Certificate
DES	Department of Education and Skills
Dfin	Department of Finance
DG	Director General
DHPLG	Department of Housing, Planning and Local Government
DoH	Department of Health
DoT	Department of the Taoiseach
DPER	Department of Public Expenditure and Reform
DRCD	Department of Rural and Community Development

DTTS	Department of Transport, Tourism, and Sport
EBI	Economic Breeding Index
EI	Enterprise Ireland
EMRA	Eastern and Midland Regional Assembly
EPA	Environmental Protection Agency
EPC	Energy Performance Contracting
EPOs	Energy Performance Officers
ESB	Electricity Supply Board
ESBN	Electricity Supply Board Networks
ESCO	Energy Service Companies
ETBs	Education and Training Boards
EU	European Union
EVs	Electric Vehicles
EXEED	Excellence in Energy Efficient Design
FDI	Foreign Direct Investment
GHG	Greenhouse Gas
GNI	Gas Networks Ireland
GRAZE	Green Renewable Agricultural Zero Emissions
GSI	Geological Survey Ireland
GW	Gigawatt
ha	hectare
HEA	Higher Education Authority
HEIs	Higher Education Institutions
HGVs	Heavy Goods Vehicles
IFA	Irish Farmers Association
IMDO	Irish Maritime Development Office
IMIN	Irish Marine Industry Network
IPA	Institute of Public Administration
ISME	Irish Representative Association for Small and Medium Enterprises
km	kilometer
LAs	Local Authorities
LED	Light Emitting Diode
LEOs	Local Enterprise Offices
LESS	Low Emission Slurry Spreading
LEVs	Low-Emission Vehicles
LGMA	Local Government Management Agency
LGV	Light Goods Vehicle
LIEN	Large Industry Energy Network
MACC	Marginal Abatement Cost Curve
MSO	Marine Survey Office

Glossary of Acronyms

MWh	Megawatt Hour
N ₂ O	Nitrous Oxide
NAF	National Adaptation Framework
NDCA	National Dialogue on Climate Action
NDP	National Development Plan
NESC	National Economic and Social Council
NFS	National Farm Survey
NMPF	National Marine Planning Framework
NPWS	National Parks and Wildlife Service
NSAI	National Standards Authority of Ireland
NTA	National Transport Authority
NTMA	National Treasury Management Agency
NZEB	Near Zero Energy Building
OGP	Office of Government Procurement
OPC	Office of the Parliamentary Counsel
OPW	Office of Public Works
ORE	Offshore Renewable Energy
OREDP	Offshore Renewable Energy Development Plan
PPAs	Power Purchase Agreements
PSBs	Public Service Bodies
PSO	Public Service Obligation
RESS	Renewable Electricity Support Scheme
RSF	Regional Skills Forum
SEA	Strategic Environmental Assessment
SEAI	Sustainable Energy Authority of Ireland
SECs	Sustainable Energy Communities
SFA	Small Firms Association
SFI	Science Foundation Ireland
SME	Small and medium-sized enterprise
SNSP	System Non-Synchronous Penetration
SONI	System Operator for Northern Ireland
SPSVs	Small Public Service Vehicles
SSRH	Support Scheme for Renewable Heat
SWOT	Strengths, Weaknesses, Opportunities, Threats analysis
TII	Transport Infrastructure Ireland
TRLs	Technology Readiness Levels
VRT	Vehicle Registration Tax
WEEE	Waste Electrical and Electronic Equipment
WWETB	Waterford and Wexford Education and Training Board

Where We Stand

Action 1: Evaluate in detail the changes required to adopt a more ambitious commitment of net zero greenhouse gas emissions by 2050, as part of finalising Ireland's long-term climate strategy by the end of 2019 as per the advice of the Intergovernmental Panel on Climate Change and the recommendation of the Joint Oireachtas Committee on Climate Action

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q4 2019	DCCAE	DAFM, Teagasc

Governance of the Challenge

Action 2: Establish a Climate Action Delivery Board in the Department of the Taoiseach, jointly chaired by the Taoiseach's Department and the Department of Communications, Climate Action and Environment, to oversee the implementation of the Climate Action Plan. A progress report will be submitted to Cabinet and published each quarter

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q3 2019	D/Taoiseach	DCCAE and other relevant Government Departments

Action 3: Update Cabinet procedures to ensure that all Government Memoranda are considered against their carbon impact and mitigation potential

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q4 2019	D/Taoiseach	DPER, DCCAE

Action 4: Publish the Climate Action (Amendment) Bill 2019

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Publication of Bill	Q1 2020	DCCAE	D/Taoiseach, DPER, EPA

Action 5: Commence the process of forming carbon budgets for 2021 to 2025, 2026 to 2030 and 2031 to 2035 ahead of a new Climate Action (Amendment) Bill 2019 being enacted

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop recommendations on a suitable approach for preparation of multi-annual carbon budgets to inform preparation of drafting of legislation	Q3 2019	Climate Change Advisory Council	DCCAE
Subject to enactment of amending legislation, develop initial multi-annual carbon budget	Q2 2020	Climate Change Advisory Council	DCCAE

Action 6: Require budgetary rules to show the Exchequer cost of the purchase of emissions allowances in the annual estimates process against the Vote of the Department who has responsibility for that sector, where there is a significant cost to the Exchequer

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Proposed arrangements to be set out as part of budgetary documentation	Q4 2019	DPER	DCCA

Carbon Pricing and Cross-cutting policies

Action 7: Implement a rolling strategy to reform environmental taxation measures across all relevant tax heads

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Equalise diesel and petrol excise rates over an appropriate period of time	For consideration in context of the Budget	DFin	DTTAS, DCCAЕ
Recalibrate VRT and motor tax regimes for passenger cars in light of recent progress on emissions standards	For consideration in context of the Budget	DFin	DTTAS, DHPLG, DCCAЕ
Consider the introduction of an emissions-based motor tax for Light Goods Vehicles (LGVs)	For consideration in context of the Budget	DFin	DTTAS, DHPLG, DCCAЕ
Consider the merits of equalising electricity tax rates for business and electricity consumers to €1/MWh ¹	For consideration in context of the Budget	DFin	DBEI, CRU, DCCAЕ
Consider the introduction of an environmental rationale into the vehicle BIK regime	For consideration in context of the Budget	DFin	DTTAS, DCCAЕ
Consider the introduction of an environmental rationale in vehicle BIK regime	For consideration in context of the Budget	DFin	DTTAS, DCCAЕ

Action 8: Implement a carbon tax rate of at least €80 per tonne by 2030 and carry out a full assessment of a trajectory of increases over successive annual Budgets

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Assess a carbon tax trajectory of at least €80/tonne by 2030, having regard to considerations on the social and economic impacts	For consideration in context of the Budget	DFin	DCCAЕ, DTTAS, DBEI, DEASP, DHPLG

¹ Electricity tax has applied in Ireland since October 2008 and applies at the minimum allowable, under the EU Energy Tax Directive, of €0.50 per Mega-Watt Hour (MWh) for business and €1.00 per MWh for non-business. This is significantly lower than the EU average of €4.76 per MWh for business use and €11.3 per MWh for non-business use.

Action 9: Reform the Public Spending Code to increase the shadow price of carbon and introduce more robust consideration of climate impacts in project appraisal

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Publish a Decision Paper and Revised Circular requiring the use of a new, much higher, shadow price of carbon and lower discount rate in cost-benefit appraisal, ensuring all major public investment projects take account of the climate impacts of these investments	Q3 2019	DPER	DCCAIE
Introduce a new step in the Public Spending Code project lifecycle on strategic assessment. This will see an earlier consideration of the rationale for policy interventions and ensure the strategic fit of potential projects and programmes with Government policy. It will ensure earlier consideration of potential approaches to deal with a policy issue before the selection of a preferred option and the undertaking of an appropriate appraisal. Climate considerations will be incorporated in this new step.	Q3 2019	DPER	DCCAIE
Publish supplementary guidance to assist Departments and Agencies to calculate GHG emissions attributable to investment decisions and on practical application of the shadow price of carbon, ensuring consistency and comparability of sectoral measures	Q3 2019	DPER	All relevant Government Departments and Agencies
Review the operation of the revised Public Spending Code and evaluate the scope for further environmental reforms	Q4 2020	DPER	DCCAIE

Action 10: Develop a strategy on mobilisation of private sector investment to meet our climate targets

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other 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 identify priority opportunities in key sectors to mobilise private investment towards assisting in meeting our climate objectives. The Ireland Strategic Investment Fund will work with the Food and Agriculture sectors to evaluate the role Agriculture can play in achieving our climate change targets, including new technologies, farming practices and assessment of solutions that are proven in other countries such as anaerobic digesters.	Ongoing	NewERA	DCCAIE, DAFM, DHPLG, DFin, DPER
Finalise report on options for non-Exchequer sources of financing climate action and green investments	Q3 2019	NewERA	DCCAIE

Action 11: Implement new strategy for international financial services to promote the development of the sustainable finance sector in Ireland

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Monitoring of sustainable finance measures within the new Strategy	Quarterly	DFin	

Action 12: We will consider how a new requirement could be placed on pension providers to disclose what portion of any fund is made up of fossil fuel assets, and to provide an option to pension-holders to opt for a fund which does not include fossil fuel

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q4 2019	DEASP	DFin

Action 13: Ensure that, within their mandates, the selection criteria for each of the Project Ireland 2040 Funds will operate to promote low-carbon investments. Review the selection criteria for each capital funding scheme to ensure that low carbon designs and investments are prioritised

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Review the selection criteria for all the Project Ireland funds to ensure low carbon investments are prioritised for funding	Q3 2019	DPER	DCCAIE, DRCD, DHPLG, DBEI
Review the selection criteria for each capital funding scheme to ensure that low carbon designs and investments are prioritised	Q3 2020	Each line Department	

Action 14: Strengthen our delivery of public funding for basic and applied research to underpin government policy, meet our decarbonisation objectives and open up new economic opportunities

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Publish the first annual report of the National Climate Research Coordination Group	Q2 2019	EPA	
Develop proposals for mission-oriented funding to address complex and long-term challenges. Such proposals will also consider future research and funding opportunities available under the EU's Framework Programmes for Research & Innovation	Q3 2019	SFI	DCCAIE, DBEI
Prioritise public funding for energy, climate action and sustainability, aligned with the refreshed national Research Priority Areas 2018 to 2023	Ongoing	SFI (and all other public research funders)	DBEI and other relevant Departments
In the context of Innovation 2020 and its successor, a strategic approach to investment in research infrastructure for climate action relevant research will be pursued	Ongoing	SFI	DCCAIE, DBEI, DES

Action 15: Implement National Planning Framework			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop a methodology and guidance for local authorities to estimate and evaluate the greenhouse gas emissions impact of strategies for future development as part of the City/County development plan process, to include arrangements for the publication and evaluation of such information and measures for monitoring and review	Q1 2020 with ongoing monitoring and review at appropriate intervals thereafter	DHPLG	EPA
Deliver NPF objectives for regional development and urban growth, in particular NPF National Policy Objectives 1a and 2a with regard to the development of the regions and growth within the cities	Ongoing, to be monitored at appropriate annual intervals	DHPLG	Whole of Government, Regional Assemblies, Local Authorities
Deliver NPF objectives for compact growth, in particular NPF National Policy Objectives 3a, 3b and 3c, with regard to targets for development within the existing built footprint of settlements	Ongoing, to be monitored at appropriate annual intervals	Local Authorities	DHPLG
Continue to deliver all other National Policy Objectives set out in the NPF, to work towards achieving the ten shared National Outcomes as part of Project Ireland 2040	Ongoing, to be monitored at appropriate annual intervals	Whole of Government	
Continue to deliver the urban (DHPLG) and rural (DRCD) regeneration and development funds on a competitive bid basis, to include specific evaluation criteria in relation to potential to reduce greenhouse gas emissions	Ongoing, to be monitored at appropriate annual intervals	DHPLG	DRCD, Local Authorities
Work with DTTS and the NTA and other stakeholders to develop policy measures that integrate land use and transport planning in terms of the spatial pattern and urban form of development and transport/mobility, including the development of updated, place-related targets for sustainable mode share.	Q1 2020, with ongoing monitoring and review at appropriate intervals thereafter	DHPLG	DTTAS, NTA, Transport Operators
Work with DCCAIE and SEAI and other stakeholders to encourage and support area-based development initiatives to create sustainable communities that can demonstrate a holistic range of innovative and place-appropriate measures to accelerate transition to a low carbon and climate resilient society	Q2 2020, with ongoing monitoring and review at appropriate intervals thereafter	DHPLG	DCCAIE, SEAI

Electricity

Regulatory Streamlining of Renewables and Grid Development

Action 16: We will require, at scale, electricity/gas providers to provide detail on energy use and potential energy savings, for instance as part of consumers bills

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q2 2020	DCCAIE	CRU

Action 17: Ensure that ESB Networks and EirGrid plan network and deliver on connecting renewable energy sources to meet the 2030 70% RES-E target

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Proposals on network development, operational and service delivery plans for 2021 -2025 as part of Price Control 5 (PR5)	Q4 2019	ESBN EirGrid (joint lead)	EirGrid
CRU's public consultation on PR5	Q2 2020	CRU	
Regulatory review and approval of PR5	Q3 2020	CRU	
PR5 comes into effect	Q1 2021	CRU	

Action 18: Facilitate additional hybrid connections (e.g. solar/wind/batteries) operating in the electricity market to increase RES-E penetration

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Review of hybrid connection requirements and requirements of the market	Q4 2019	CRU	ESBN, EirGrid
Identify required changes to implement more hybrid connections in the market	Q2 2020	CRU	ESBN, EirGrid
Implement required changes	Q3 2020	CRU	ESBN, EirGrid, DCCAIE
Review RESS eligibility and settlement rules for hybrid units	Q2 2021	DCCAIE	EirGrid, CRU
Update RESS Terms and Conditions for hybrid units as appropriate	Q3 2021	DCCAIE	EirGrid, CRU

Action 19: Ensure that the next phase of renewable connection policy is fit for purpose to deliver on renewable energy targets and community projects, and report annually on the timeliness of grid connection

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop Enduring Connection Policy 2 Policy	Q4 2019	CRU	ESBN, EirGrid
Finalise Enduring Connection Policy 2 Policy	Q2 2020	CRU	ESBN, EirGrid
Initiate processing of Enduring Connection Policy connection offers	Q3 2020	ESBN	EirGrid
Connection projects under Enduring Connection Policy 2	2022 onwards	ESBN	

Action 20: Implement energy actions under the *Government Statement on the Role of Data Centres in Ireland's Enterprise Strategy* to ensure that large demand connections are regionally balanced to minimise grid reinforcements

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop and implement flexible demand and other innovative solutions for data centres	Q3 2019	EirGrid	CRU, IDA
Develop longer term measures to facilitate data centres and minimise grid reinforcement	2019-2022	CRU	ESBN, EirGrid, IDA

Action 21: Ensure that updated planning guidelines for onshore wind are published in 2019

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Publish Strategic Environmental Assessment consultation on Wind Energy Guidelines	Q3 2019	DHPLG	
Finalise Wind Energy Guidelines	Q4 2019	DHPLG	

Action 22: Further consider facilitation of private networks/direct lines

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Investigate policy options for private networks/direct lines	Q2 2020	DCCAIE	CRU, ESBN, EirGrid
Revise legislation if necessary to implement policy on private networks/direct lines as part of CEP transposition	Q2 2021	DCCAIE	
Establish regulatory framework and market rules for private networks/direct lines	Q4 2021	CRU	ESBN, EirGrid

Action 23: 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	Timeline by Quarter	Lead	Other Key Stakeholders
Annual publication of the Transmission Development Plan, Generation Capacity Statement and Transmission Forecast Statement with input from ESBN as appropriate	Annually	EirGrid	ESBN
Launch public consultation on Tomorrow's Energy Scenarios 2019 in Ireland	Q2 2019	EirGrid	
Publish Tomorrow's Energy Scenarios 2019 for Ireland	Q3 2019	EirGrid	
Publish a System Needs Assessment report to identify areas of the electricity transmission network in Ireland which will require development to cater for the envelope of scenarios in Tomorrow's Energy Scenarios 2019	Q4 2019	EirGrid	
Assess network development and implications of additional RES on ESB Networks	Q2 2020	ESBN	
North South Interconnector: A new interconnector connecting the electricity grids of Ireland and Northern Ireland as a project of common interest. The completion of this project will allow for a significant increase in the levels of renewables which can be deployed on the grid	Q4 2023	EirGrid	ESBN (working with SONI, NIE)
In line with the National Policy Statement on Interconnection, develop further interconnection to increase energy security and facilitate Ireland's 70% target for renewable electricity by 2030	2020-2030	EirGrid	Developers
Support to projects through the EU Projects of Common Interest process and EU funding mechanisms as appropriate	2020-2030	DCCAIE	CRU, ABP
Implement regulatory arrangements to support new interconnection, including hybrid assets	2020-2030	CRU	

Action 24: Facilitate very high penetration of variable renewable electricity by 2030 (both SNSP and average) through system services and market arrangements			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Expansion of the DS3 Qualifier Trial Programme (the trialling of new technologies on the system) into a new programme known as 'Flex Tech Integration Initiative'	Q3 2019	EirGrid	ESBN
Deliver the remaining deliverables under the DS3 Programme to enable 75% of the demand on the system to be met from variable renewable generation (75% System Non-Synchronous Penetration - SNSP)	Q2 2020	EirGrid	CRU ²
Technical analysis looking at issues which need to be overcome to manage a real time operational limit of over 90% SNSP by 2030	Q4 2020	EirGrid	SONI
Develop the model for the procurement of System Services post 2020 to facilitate increased penetration of variable renewables on the grid. The future design will need to enable Ireland's 2030 RES-E ambitions	Q1 2021	CRU	
Technical and market design, using findings from Flex Tech initiative, for the evolution of System Services to enable renewable electricity targets for 2030	Q4 2021	EirGrid	
Review of policy regulatory framework for electricity storage to facilitate efficient level of electricity storage to meet 2030 70% renewable electricity target	2020/2021	CRU	EirGrid, ESBN
Implementation of new DS3 System Services market design, post-regulatory decision	Q1 2023	EirGrid	CRU, ESBN
Implementation of European regulations, including Electricity Balancing Guideline and Clean Energy Package, into programme as appropriate	Q4 2023	CRU	EirGrid, ESBN, DCCAE

² Note that some actions involve the relevant entities working with actors from other jurisdictions. References to the CRU include its role in all-island energy market, working through the SEM Committee.

Offshore Renewables

Action 25: Facilitate the development of Offshore Wind, including the connection of at least 3.5 GW of offshore wind, based on competitive auctions, to the grid by 2030. We will establish a top team to drive this ambition

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Development Management - Transitional/Legacy			
Early resolution of potential spatial conflicts for emerging ORE policy Link with National Marine Planning Framework	Q3 2019	DCCAE	DAFM
Commence review of the licence charging regime common to ORE consenting under the Foreshore Act and Marine Planning and Development Management Bill in the context of all charges and state supports	Q3 2019	DCCAE	DHPLG
Development of a transitional protocol to enable focus on applications within scope of emerging policy including: <ul style="list-style-type: none"> Near term policy objectives Spatial certainty An agreed structure for the sequencing and delivery of non-foreshore consents, approvals and state supports Criteria for the assessment of site investigation applicants Standard terms and conditions to ensure consistency with future ORE development Dealing with historic ORE applications 	Q4 2019	DCCAE	SEAI, CRU, EirGrid, ESBN, (DHPLG)
Development Management Consenting - Enduring			
Provision of resourcing and interdepartmental structures to effectively progress the Marine Planning and Development Management Bill	Q4 2019	DHPLG	DCCAE
Publication of Maritime Jurisdiction Legislation	Q3 2019	DFAT	
Finalise revised General Scheme of the Marine Planning and Development Management Bill	Q3 2019	DHPLG	DCCAE, AGO
Finalise drafting of a common planning procedure for all DCCAE policy area development within the scope of Marine Planning and Development Bill	Q4 2019	DCCAE	DHPLG, AGO, OPC

Action 25: Facilitate the development of Offshore Wind, including the connection of at least 3.5 GW of offshore wind, based on competitive auctions, to the grid by 2030. We will establish a top team to drive this ambition

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Publication of the Maritime Planning and Development Management Bill providing modern ORE State and development consent regimes for the maritime area	Q4 2019	DHPLG	DCCAE, OPC
Development and enactment of necessary secondary legislation following enactment of Marine Planning and Development Management ³	Q3 2020	DCCAE	DHPLG, OPC
<ul style="list-style-type: none"> Completion of the National Marine Planning Framework in a manner to give priority to key national policies such as the overall decarbonisation of the economy and Ireland's renewable energy ambitions Full engagement by all marine consenting agencies with the NMPF process to provide certainty to developers and the public, avoiding potential spatial conflicts and identifying synergies with other activities Use NMPF and associated processes to resolve conflicts between competing sectoral objectives (e.g. including renewable energy and others) All Departments feed into the central resource of marine spatial data and evidence being developed by the Marine Institute as part of the NMPF process 	Q3 2019 - Draft Plan consultation Q4 2020 - Final Plan	DHPLG (dependent on input from DCCAE, DAFM, DTTAS, DCHG, Defence, Marine Institute)	

Route to Market (RESS): Legacy/Enduring

Finalise State Aid Notification to include Offshore Wind as a category in RESS Auctions (Date subject to DG Competition timing)	Q3 2019	DCCAE	
Secure Government approval for offshore specific auction	Q3 2020	DCCAE	
Publish Terms and Conditions of Offshore RESS Auction	Q1 2021	DCCAE	EirGrid
Open Qualification Process for Offshore RESS Auction	Q2 2021	EirGrid	
Evaluate whether sufficient competition in applications received to hold an offshore wind RESS auction. If not, consider alternative options	Q2 2021	DCCAE	CRU
Hold Offshore RESS Auction	Q2 2021	DCCAE	EirGrid
Hold further RESS Auctions to facilitate offshore renewables (subject to Government approval)	Q3 2022, 2024	DCCAE	EirGrid
Monitoring of projects to ensure they abide by Terms and Conditions of the auction including construction deadlines	Ongoing in advance of construction	DCCAE	EirGrid

3 Note that this is subject to the enactment of the MPDM primary legislation by the Oireachtas.

Action 25: Facilitate the development of Offshore Wind, including the connection of at least 3.5 GW of offshore wind, based on competitive auctions, to the grid by 2030. We will establish a top team to drive this ambition

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Offshore Grid Delivery - Legacy			
CRU policy decision on grid connection offers to be issued for offshore wind farms following the above assessment in line with Enduring Connection Policy 2 (subject to consenting)	Q4 2019	CRU	
Grid connection methods scoped, costed and connection offer(s) made to offshore wind applicants (dependent on above)	Q2 2020	EirGrid	ESBN
Developer to accept connection offer and financially close on offshore windfarm project	Q4 2021	Developer	
Construction to commence on both offshore windfarm and grid connection	Q1 2022	Developer	EirGrid, ESBN
Construction completed for both offshore windfarm and grid connection	+ 4 years	Developer	EirGrid, ESBN
Offshore Grid Delivery - Enduring			
Establishment of Working Group on Framework for Offshore Electricity Grid, chaired by DCCAE	Q3 2019	DCCAE	CRU, EirGrid, ESB Networks
Development of Options Paper for Working Group on Offshore Grid Models	Q1 2020	EirGrid	
Government decision on offshore grid framework in alignment with NMPF	Q2 2020	DCCAE	
Consultation on Regulatory Framework for Connections of Offshore Windfarms informed by Government Policy and Offshore Grid Options Paper above	Q2 2020	CRU	
Decision on Regulatory Framework for Connections of Offshore Windfarms	Q3/4 2020	CRU	
Identification of suitable offshore zones and grid capacity for offshore development in conjunction with NMPF (depending on the Regulatory Framework)	Q4 2020	DCCAE	DHPLG, CRU, EirGrid
Planning consents (foreshore leases) secured for offshore windfarm applicants	Q3 2021	DCCAE	DHPLG
Grid connection methods scoped, costed and connection offer(s) made to offshore wind applicants that have been successful in the auction	+8 months post auction	EirGrid	
Construction to commence on both (a) offshore windfarm and (b) grid connection following acceptance of offer by developer	+3 months after accepting offer	EirGrid	ESBN, Developer

Action 25: Facilitate the development of Offshore Wind, including the connection of at least 3.5 GW of offshore wind, based on competitive auctions, to the grid by 2030. We will establish a top team to drive this ambition

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Construction completed for both (a) offshore windfarm and (b) grid connection. Responsible body for grid connection dependent on decision on offshore wind delivery framework	+4 years 2025	EirGrid	ESBN, Developer

Action 26: Support the ocean energy research, development and demonstration pathway for emerging marine technologies (wave, tidal, floating wind) and associated test infrastructure

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
------------------------------	---------------------	------	------------------------

Mapping

Complete the mapping of all Irish offshore waters through the INFOMAR Programme to support site selection for offshore energy	Ongoing mapping until all waters complete in 2026. (See www.infomar.ie for progress)	GSI	DCCA Marine Institute, DTTAS (MSO), SEAI, BIM
---	--	-----	---

Floating offshore wind

Expand Atlantic Marine Energy Test Site (AMETS) to accommodate floating wind: Commence Environmental Monitoring Requirements	Q3 2019	SEAI	
<ul style="list-style-type: none"> Commission report to consider additional requirements to support floating wind sector 2020-2030 	Q4 2019	SEAI	
<ul style="list-style-type: none"> Make license application to test on site 	Q2 2020	SEAI	

Wave energy and tidal energy

Review of impact of Prototype Development Fund and recommendations for enhanced scheme	Q3 2019	SEAI	
Exploration of new funding model (Pre-commercial Fund) to leverage H2020 funding to roll out the scheme in Ireland	Q4 2019	SEAI	
Publish first OceanSET annual report to identify supports available and impacts of ocean programmes across the EU	Q4 2020	SEAI	

ORE test site infrastructure

Review plans and opportunities for the use of Westwave site	Q4 2020	SEAI	DCCA DHPLG
Explore new test sites and models for floating offshore wind arrays	Q4 2020	SEAI	DCCA DHPLG

Action 26: Support the ocean energy research, development and demonstration pathway for emerging marine technologies (wave, tidal, floating wind) and associated test infrastructure

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Explore test site location for testing of tidal technologies with consideration for integrated storage systems	Q4 2020	SEAI	DCCAE, DHPLG

Exchequer supports

Re-open Prototype Development Fund following review. Consider targeted/competition approach for access to test sites	Q4 2019	SEAI	
Review success of targeted approach of research support for lower Technology Readiness Levels (TRLs)	Q4 2019	SEAI	
Support new technologies signposting them to appropriate funding sources and enterprise development supports	Q4 2020	SEAI	EI
Explore mechanisms to help technology developers to access private investment	Q4 2020	SEAI	IDA

Action 27: Support innovation enterprise hubs and the supply chain for offshore renewable energy

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
------------------------------	---------------------	------	------------------------

Enterprise supports

Roll out the Ocean Power Innovation Network (OPIN) project to provide cross sectoral Enterprise supports from across EU to the ORE sector	Q3 2019	SEAI	EI
Progress work of Irish Marine Industry Network (IMIN) and organise events targeted at ORE sector	Q4 2019	EI	IMDO
Conduct an initial review of SEAI supply chain analysis for offshore renewables to identify gaps and explore/recommend how Ireland can exploit them	Q2 2020	SEAI	IDA, EI
Develop an offshore renewable supply chain strategy for integration into the next OREDP	Q4 2020	SEAI	IDA, EI
Support new technologies signposting them to appropriate funding sources and enterprise development supports	Q4 2020	SEAI	EI
Explore mechanisms to help technology developers to access private investment	Q4 2020	SEAI	IDA

Ports Infrastructure

Ensure alignment of NMPF with NDP so that ports and associated infrastructure can develop and invest accordingly	Q1 2021	DHPLG	DTTAS
--	---------	-------	-------

Route to Market for Renewable Electricity Generation

Action 28: Design and implement the RESS. Increase the volumes and frequencies of RESS auctions to deliver on the 70% renewable electricity target by 2030 ensuring an appropriate community/enterprise mix to achieve an efficient delivery of renewables.

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Finalise the Detailed Design of the RESS including state aid notification	Q3 2019	DCCAIE	
Establish the Community Framework to accompany the RESS and engage with the Standing Committee on Climate Action on this. Put measures in place to ensure that community benefit fund is equitable and there is strong citizen participation in renewable projects	Q4 2019	DCCAIE	
Begin Qualification Process for RESS 1 Auction	Q4 2019	DCCAIE	EirGrid, CRU,
Finalise design and implementation of RESS 2 and RESS 3	2021/2022	DCCAIE	EirGrid, CRU

Action 29: Ensure that 15% of electricity demand is met by renewable sources contracted under Corporate PPAs

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Initial scoping work on Corporate PPAs including identification of barriers and policy options	Q2 2019	SEAI	CPPA Advisory Group, DCCAIE, CRU
Consultation workshop(s) with industry and relevant government or state agencies (CRU, DFin, Revenue, IDA etc.)	Q3 2019	SEAI	DCCAIE, CRU
Complete consultancy report on Renewable Electricity Corporate PPAs including set of policy recommendations	Q4 2019	SEAI	CPPA Advisory Group, DCCAIE
Follow-up workshop with relevant entities (CRU, EirGrid, revenue etc.) to discuss and analyse in detail the proposed recommendation(s)	Q2 2020	DCCAIE	SEAI, CRU
CPPAs Policy Paper based on consultancy study and Advisory Group Recommendations Paper	Q3 2020	DCCAIE (with input from relevant Government Departments and Agencies)	
Implementation of approved recommendation(s)	Q4 2020	DCCAIE	CRU, SEAI, Other relevant State Entities

Micro-generation

Action 30: Develop an enabling framework for micro-generation which tackles existing barriers and establishes suitable supports within relevant market segments			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Establish a working group on micro-generation and renewable self-consumption and agree terms of reference e.g. appropriate definitions, policy objectives, engage with the CEP transposition project etc.	Q3 2019	DCCAE	CRU, SEAI, DHPLG, ESBN
Begin review of requirements for resolving market settlement issues for renewable self-consumers exporting to the grid	Q3 2019	CRU	
Conclude review of the current exemptions relating to solar panels as provided for in the Planning and Development Regulations, in consultation with the Department of Communications, Climate Action and the Environment and implement amendments arising from review	Q4 2019	DHPLG	DCCAE
Determination of appropriate grid connection policy to facilitate renewable self-consumers and access for micro-generation	Q4 2019	CRU	ESBN
Assess potential implications for distribution network of defined higher penetrations of distributed generators	Q4 2019	ESBN	
Assess possible support mechanisms for micro-generation/ renewable self-consumption differentiated by segment (public sector, including schools, residential, community, farming, commercial and industrial etc.), ensuring principles of equity, self-consumption and 'energy efficiency first' are incorporated	Q1 2020	DCCAE	SEAI, DBEI, DAFM
Public consultation/call-for-evidence on basis of above assessment	Q3 2020	DCCAE	CRU
Assessment of the impact of the current structure of electricity bill charges (including PSO and standing charges) on renewable self-consumers and other consumers	Q3 2020	CRU	DBEI, DCCAE
Functionality to enable smart services in place, subject to initial review	Q2 2021	CRU	
Launch finalised policy and pricing support regime for micro-generation	Q2 2021	DCCAE	SEAI

Action 31: Deliver pilot solar PV micro-generation scheme with a view to commencement of enduring support scheme by 2021, at the latest, to ensure that people can sell excess electricity they produce back to the grid

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Review of scheme (incl. budget) and potential for new technologies and sectors to be included in broadened scope	Q3 2019	SEAI	
Decision following review of pilot scheme	Q4 2019	DCCAE	SEAI
Allocation of appropriate budget	Q4 2019	DCCAE	SEAI

Action 32: Deliver Smart Metering Programme in line with current planned timelines that will support the market for micro-generation

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Commence review of requirements for resolving market settlement issues for renewables self-consumers	Q3 2019	CRU	
Support research and demonstration projects with a focus on enabling the 'smart home' (e.g. demand side management, storage, communication protocols, automated control, etc.)	Q3 2019	SEAI	EirGrid, ESBN

Carbon Capture and Storage

Action 33: Establishment of a Steering Group to examine and oversee the feasibility of the utilisation of CCS in Ireland, and report to the Standing Committee on Climate Action as appropriate

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Establish Steering Group	Q2 2019	DCCAE	
Agree appropriate research investment by Ervia/Gas Networks Ireland in CCS feasibility	Q3 2019	DCCAE	DHPLG, CCS Steering Group
Monitor progress of Ervia proposal in Cork	Q2 2020	DCCAE	
Draft necessary legislation and regulatory regime if CCS research is positive	Q3 2020	DCCAE	

Enterprise

Action 34: Engage with the cement and food and drink industry sectors to identify measures to support the achievement of identified potential abatement in these sectors

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Convene working groups on cement and food and drink sector decarbonisation	Q4 2019	DBEI	DCCAIE, EPA, CMI, FDI, SEAI
Identify key enabling factors for maximising the decarbonisation opportunities in both sectors	Q1 2020	DCCAIE	EPA, CMI, FDI, SEAI
Develop action plan to address any identified barriers	Q2 2020	DBEI	DCCAIE, EPA, CMI, FDI, SEAI
Review implementation of actions and make recommendations for further work	Q1 2021	DBEI	DCCAIE, EPA, CMI, FDI, SEAI

Action 35: Drive innovation and efficiency in companies by promoting wider take-up of EXEED delivering efficiencies in at least 80 companies

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Expand EXEED programme availability to at least 80 companies through SEAI	Q4 2019	SEAI	

Action 36: Prioritise decarbonisation as part of enterprise agency strategies and drive the decarbonisation agenda across their respective client bases

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Review current environmental offering by EI and IDA with a view to promoting environmental schemes to a larger cohort of client companies	Q4 2019	DBEI	IDA, EI
Seek to grow the number of client companies engaging in supports for Environmental Product Declaration initiatives	Q4 2019	Enterprise Ireland	
Identify opportunities to engage with specific sectors to develop tailored supports for companies in those sectors	Q4 2019	DBEI	IDA, EI, SEAI
Development of a new strategy for IDA Ireland to integrate decarbonisation objectives	Q4 2019	IDA	

Action 37: Develop networks in key industry sectors and a roadmap of actions to support decarbonisation of large industry

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Undertake preparatory work on menu of actions to support decarbonisation in large industry	Q4 2019	SEAI	DCCA, DBEI, EI, IDA
Develop network of 15-20 of the largest energy users in Ireland to drive and monitor a public commitment to decarbonisation over the 2020-2030 period	Q1 2020	SEAI	DCCA, DBEI, EI, IDA
Develop networks in key industry sectors to allow knowledge sharing, benchmarking and the development of sectoral action plans for decarbonisation	Q2 2020	SEAI	SEAI, DCCA, DBEI, IDA

Action 38: Promote enhanced networking approaches within SEAI Large Industry Energy Network and through the SME Programme

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Identify key success factors of existing Energy Networks (LIEN, Public Sector, SECs) and identify opportunities to apply across SME sector via EI networks, agricultural networks and Co-ops, LEOs, etc.	Q4 2019	SEAI	EI, LGMA, EPA, DBEI, IDA, IFA, IBEC, Chambers Ireland, CCMA, DAFM
Actively develop links between large businesses (including public sector) and communities to assist in technical capacity building to deliver collaborative community projects and formalise business network and community partnerships by year end to then develop a replicable model	Q4 2019	SEAI	BITC, EI, EPA, LGMA, DBEI, IDA, IFA, IBEC, Chambers Ireland, CCMA
Identify targeted community clusters leveraging key organisational relationships in coastal communities, Gaeltacht communities Co-Ops, Tidy Towns and educational establishments	Q4 2019	SEAI	CIL, POBAL

Action 39: Launch targeted call under Climate Action Fund

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Development of the scope of proposed call	Q3 2019	DCCAIE	
Launch of call	Q4 2019	DCCAIE	

Action 40: Leverage and mobilise business cluster initiatives under the Regional Enterprise Plans and Future Jobs Ireland 2019

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Identification of all business cluster initiatives in Regional Enterprise Plans and in Future Jobs Ireland 2019	Q3 2019	DBEI	
Develop overall proposed approach for interaction with business clusters	Q1 2020	DBEI	SEAI
Begin rolling out engagement with relevant clusters	Q2 2020	SEAI	DBEI, Clusters

Action 41: Promote the integration of climate considerations into business operations through the work of the Corporate Social Responsibility Stakeholder Forum

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Encourage businesses to implement resource efficiencies	Ongoing Q2 2020 for update	DBEI	CSR Forum
SEAI to engage with the DBEI Corporate Social Responsibility Stakeholder Forum to highlight supports available to businesses to improve their energy efficiency	Ongoing Q2 2020 for update	SEAI	DBEI, CSR Forum

Action 42: Work with all business representative groups, including IBEC, Business in the Community, ISME, SFA, Chambers Ireland, and others to create partnerships of companies that sign up to a low carbon trajectory

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop proposals for low carbon partnerships for specific industry sectors, as well as the public sector	Q4 2019	DCCAIE	IBEC, BITCI, ISME, SFA, Chambers Ireland, DBEI
Develop proposals for extension of B2B mentor programmes within supply chains and industry peers for those companies signing up to a low carbon trajectory (implementation subject to allocation of funding)	Q4 2019	DCCAIE	IBEC, BITCI, ISME, SFA, Chambers Ireland, DBEI

Built Environment

Consolidating the Evidence Base and Driving Demand

Action 43: Consolidate data on current retrofit volume and depth to get a full picture of energy efficiency and carbon savings funded by public bodies and those supported by the Energy Efficiency Obligation Scheme across the residential, commercial and public sectors

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Identify schemes and supports outside of the SEAI schemes where energy efficiency retrofit is already happening (both domestic and non-domestic buildings)	Q3 2019	DCCAE	DHPLG, DEASP, DoH, SEAI
Research potential to identify and record work undertaken outside of all Government schemes to address gaps in data and measure impact of works in energy targets	Q4 2019	SEAI	
Measure the impact of these schemes or establish approaches to measure the impact in the future	Q4 2019	SEAI	
Consolidate the data in order to determine the overall current level of activity and impact	Q1 2020	SEAI	DCCAE
Ascertain the optimal volume and mix of deep and medium home energy efficiency upgrades	Q1 2020	SEAI	DCCAE

Action 44: Increase the number of homes and businesses with BERs and DEC's

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Explore the potential for free/highly subsidised BER and Advisory Reports for buildings to incentivise uptake	Q4 2019	DCCAE	DHPLG
Develop plans to progressively expand the scope of the BER parameters	Q4 2019	SEAI	DHPLG, LA
Consider the potential to link various Government support/incentive schemes to BER	Q4 2019	DCCAE	DHPLG, SEAI
Review the enforcement mechanisms for BERs for rented sector, advertising and new dwellings	Q4 2019	DHPLG	DCCAE, SEAI
Assess the feasibility of every home being required to have a BER by a set date	Q2 2020	DCCAE	DHPLG, SEAI
Develop proposals to strengthen compliance of Large Public Buildings with the DEC and utilise them to improve building performance.	Q2 2020	SEAI	DCCAE, DHPLG

Action 45: Maximise the potential for BER and DEC data to help households and businesses decarbonise their buildings			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop a communication plan to inform the public on the link between building energy ratings and carbon emissions	Q4 2019	DCCAE	
Review the BER certificate and introduce improvements to provide more guidance to home owners	Q4 2019	SEAI	DCCAE, DHPLG
Benchmark the energy performance of public buildings by using data from the Monitoring and Reporting system	Q4 2019	SEAI	DCCAE
Develop interactive tools and a system of reports for homeowners to identify the impact of energy upgrades on their homes	2019-2021	SEAI	DCCAE
Develop interactive tools using BER database for industry to identify potential market and allow for aggregated delivery models	2019-2021	SEAI	DCCAE
Develop a tool to deliver a roadmap to individual homes to achieve BER B2, cost optimal and NZEB	Q2 2020	SEAI	DCCAE
In the business sector, develop a publicly available database and map of DECs based on business/building types	2020	SEAI	DCCAE
Develop a roadmap to require that non-domestic rental property meet a minimum BER standard by a defined future date	Q2 2020	DCCAE	

Action 46: Examine feasibility for commercial rates to be linked to BER			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
The Local Government (Rates) Bill 2018, which is currently before the Oireachtas, includes a provision to enable Local Authorities to introduce rates alleviation measures to support local and national policy objectives. It is noted that the specific nature of any such schemes at local level will be a matter for the Local Authority concerned and thus may include measures to support climate action	Q3 2019 (enactment)	DHPLG	

New Delivery Model

Action 47: Establish a One-Stop-Shop model for energy efficiency upgrades

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop proposals for the implementation of a "One-Stop-Shop model" for residential and commercial energy efficiency upgrades	Q1 2020	DCCAE	SEAI, DHPLG, LAs, CCMA

Action 48: Develop a plan to establish a new delivery body to ensure the effectiveness and efficiency of the delivery system for retrofits, including examining how to deliver a major house retrofitting programme in the Midlands. We will also look at easy pay-back models, for example through your electricity bill

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Group to be formed to consider approaches to area based clustering/aggregation and standardisation etc.	Q3 2019	DCCAE	SEAI, NTMA, SBCI, DPER, DHPLG

Action 49: Develop a plan to ensure that the grant schemes, new finance models and the delivery system are effectively integrated

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Group to be formed to consider how the new retrofit model can best be delivered	Q3 2019	DCCAE	SEAI, NTMA, SBCI, DPER, DHPLG
Plan to be published	Q3 2020	DCCAE	SEAI, NTMA, SBCI, DPER, DHPLG

Building the Supply Chain

Action 50: Skill-up current contractors/other industry players in deep retrofit, NZEB and new technology installations			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Through engagement with the Regional Skills Fora, the identified skill needs for NZEB, deep retrofit, heat pumps and new technology installations along with other identified skills needs in other sectors will be supported across the education and training system, including through relevant apprenticeship programmes	Q2 2019	DES	SOLAS, SEAI, DHPLG, DCCAE
Deliver NZEB training programme for existing construction workers by Waterford and Wexford Education and Training Board	Q4 2019	WWETB	DES, SOLAS
Develop a centre of excellence for High Performing Buildings in WWETB (potentially part of United Nations Economic Commission for Europe initiative). Accredited training programmes developed in this centre to be delivered nationally through the ETB network.	Q4 2019	DCCAE ⁴	DHPLG, DFAT, DES, DBEI, SOLAS, SEAI, Wexford LA, WWETB
Develop Retrofit Standard/Guidance for traditionally built buildings (i.e. generally pre-1940 construction)	2019-2020	DCHG	SEAI, DCCAE, DHPLG
Support relevant professional bodies in the development of training specifications/courses for the design of NZEB and Deep Retrofit buildings	2019-2021	SEAI	DCCAE, DHPLG
Review process to encourage recruitment and retention strategies for BER Assessors	2019	SEAI	DCCAE, DHPLG
Consider the roll out of NZEB and Deep Retrofit contractor courses nationwide (specification developed with WWETB)	2020	DES	SOLAS

Action 51: Develop the supply chain for renewables and retrofitting through engagement with ETBs and SOLAS			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
SEAI to consider updating the 2014 report 'Ireland's Sustainable Energy Supply Chain Opportunity'	Q3 2019	SEAI	
Assess the resources – both human and otherwise – that will be required to meet the new level of retrofit activity out to 2030	Q4 2019	SEAI	DCCAE, DHPLG, DES, DEASP
Develop a roadmap to promote greater use of lower-carbon building material alternatives in construction	Q3 2020	OPW	DCCAE, SEAI, DHPLG

⁴ DCCAE are leading on this for reporting purposes. A lead department for this project is still to be decided.

Funding and Financing Projects

Action 52: Develop and optimise Government funding and grant schemes to drive demand for energy efficiency retrofits that deliver value for money			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop proposals to increase participation by businesses in the EXEED initiative by 50%	Q4 2019	DCCAE	SEAI
Enhance the delivery model and supports for households with lower incomes to improve the energy efficiency and comfort of their homes	Start Q3-Q4 2019-Q1 2020	DCCAE	SEAI, DEASP
Develop proposals to phase out grants for “shallow” energy efficiency measures by 2022	Q4 2019	DCCAE	SEAI
Develop a series of campaigns to target homes and businesses with the highest carbon abatement potential and highlight technologies such as heat pumps	Q4 2019	SEAI	
Review the energy efficiency criteria required in order to qualify for heat pump supports (in particular the minimum required Heat Loss Indicator level)	Q4 2019	SEAI	DCCAE
Review and redesign residential, community and commercial energy efficiency grant schemes to ensure alignment with Government objectives and value for money	Q1 2020	DCCAE	SEAI
In the process of transposing Article 7 of the 2018 Energy Efficiency Directive, identify measures and schemes that will enable and drive further retrofitting. Among other measures this could include a new obligation on energy distributors and retailers to achieve energy savings, similar to the existing Energy Efficiency Obligation Scheme	Q2 2020	DCCAE	SEAI

Action 53: Identify additional options for targeted financing for energy efficiency retrofits in the domestic and commercial sectors			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop proposals for an expansion of the pilot salary incentive scheme for energy efficiency retrofits	Q3 2019	SEAI and partners within existing programmes	
Extend pilot salary incentive scheme for energy efficiency retrofits to 5 public sector bodies	Q3 2019	SEAI	
Identify and assess other options for the financing of energy efficiency projects (e.g. green mortgages)	Q3 2019	DCCAE	NewERA, SEAI, DFin, DPER
Identify potential for further EPC in the commercial sector promoting its wider use where appropriate	Q4 2019-Q1 2020	DCCAE	SEAI, EI, NewERA
Assess the potential for energy suppliers to pilot a Pay-As-You-Save mechanism and on-bill finance scheme	2019-2020	SEAI	DCCAE, CRU
Identify and assess additional options for financing of biomass, CHP, district heating and renewable heat projects	Q2 2020	DCCAE	NewERA, SEAI

Action 54: Provide easier to access tailored finance for SME and residential energy efficiency investment utilising the European Commission's Smart Finance for Smart Buildings loan scheme			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Establish a Steering Committee and Working Group to design a new financing scheme	Q3 2019	DCCAE	DFin, SEAI, SBCI, NewERA, EIB
Develop a project plan with associated timelines for delivery of the new Scheme	Q3 2019	DCCAE	DFin, SEAI, SBCI, NewERA, EIB
Launch scheme via chosen finance providers	Q4 2020	SBCI	SEAI, Finance Providers

Regulation and Fiscal Measures

Action 55: All buildings undergoing a major renovation (>25% of building envelope) must bring the rest of the building up to minimum BER of B2⁵ or cost optimal equivalent

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Implement campaign to inform homeowners/ builders/ contractors on the new Major Renovation building regulations	Q4 2019	DHPLG	SEAI

Action 56: All new buildings (public and private) to be NZEB

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Publish methodology for compliance with NZEB in all new buildings	Q3 2019	SEAI	DHPLG
Implementation of tighter regulations on major renovations - Transpose EPBD Legislation into law for Major Renovations and Nearly Zero Energy Buildings	Q3 2019	DHPLG	
Advance performance requirements of building regulations to NZEB standards to facilitate phasing out the installation of oil boilers in new dwellings where feasible	Q3 2019	DHPLG	SEAI, DCCAE

Action 57: Review NZEB and major renovation performance requirements

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Set regulatory performance requirements in Building Regulations based on Cost Optimal study every 5 years	Q1 2023	DHPLG	SEAI

Action 58: Examine climate related fiscal measures across various sectors

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Roll out of measures will be subject to the normal budgetary process	Q3 2019	DFin	DCCAE

5 B2 BER insulation equivalent: includes wall, roof and window insulation, excludes boiler upgrade.

Action 59: Make time-of-use tariffs and smart bills available to electricity consumers			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
CRU to progress Smart Metering Programme and Billing for Electricity (formats etc).	First go-live Q4 2020	CRU	
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)	2021	ESBN	Industry

Action 60: Effectively Ban the installation of oil boilers from 2022 and the installation of gas boilers from 2025 in all new dwellings through the introduction of new regulatory standards for home heating systems, and ensure the supply chain for the installation of renewable heating systems is in place. Enact the NZEB performance requirements in regulation in 2019 to facilitate the effective banning of oil boilers			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Enact the NZEB performance regulations to facilitate the effective banning of oil boilers	Q3 2019	DHPLG	DCCAE, SEAI
As per action	Q4 2019	DHPLG	DCCAE, DES
Ensure the supply chain for the installation of renewable heating systems is in place	To be aligned with action dates above	DCCAE	DBEI, NSAI, DES, DHPLG

Action 61: Review how and when the replacement of oil and gas boilers in existing dwellings (domestic and commercial) could commence. The review will be completed in 2020			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Complete review on how and when the replacement of oil and gas boilers in existing dwellings could commence	Q2 2020	DCCAE	DHPLG, SEAI

Action 62: 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			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q4 2019	OPW	DCCAE, DHPLG, DPER

Action 63: Address the split incentive issue in the rental market. A special advisory group will make recommendations			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Complete a review of relevant policies in other EU Member States and identify potential policy options for Ireland	Q3 2019	Advisory Group (DCCA, DHPLG, SEAI and other stakeholders as needed)	
Complete public consultation on the options for addressing the split incentive (as part of the Long Term Renovation Strategy consultation)	Q4 2019	Advisory Group (DCCA, DHPLG, SEAI and other stakeholders as needed)	
Submit draft recommendations to the Minister for policy options on addressing the split incentive issue and encouraging improvements in energy efficiency in the rental sector.	Q1 2020	Advisory Group (DCCA, DHPLG, SEAI and other stakeholders as needed)	

Local Authorities

Action 64: Introduce minimum BER standards in the Local Authority social housing stock as part of retrofit works being carried out on older stock or refurbishment of vacant dwellings			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Local Authorities to build capacity and lead deep retrofit of social housing stock to Cost Optimal performance of B2	Q4 2019	DHPLG, DCCAE	Local Authorities, Approved Housing Bodies, SEAI
Develop roadmaps for local authority public buildings to achieve cost optimal performance by 2030 subject to funding	2020-2030	DHPLG	DCCAE, SEAI, LAs

Action 65: Develop and establish a climate-action toolkit and audit framework for Local Authority development planning to drive the adoption of stronger climate action policies in relation to the patterns and forms of future development			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop the Project Ireland 2040 Implementation Report and Project Tracker to include progress in supporting climate-action objectives Publish updated statutory guidelines under Section 28 of the Planning Act on local authority development plans setting out the appropriate requirements for integration of climate-action considerations in the preparation of the plan	Q2 2020	DPER DHPLG	LAs, SEAI

Action 66: Roadmap to develop supply chain to support the phase out of fossil fuel boilers in new dwellings			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Introduce NZEB Dwellings in Building Regulations to facilitate phasing out the installation of oil boilers in new dwellings where practical	Q2 2019	DHPLG	
Develop National Standards for the design and installation of Heat Pumps in New Dwellings	Q1 2021	NSAI	DBEI, DCCAE, SEAI, DHPLG
Coordinate the Development of Training specification for the design and installation of heat pumps	Q4 2021	DCCAE	DES, SOLAS, ETBs, SEAI, DHPLG
Put in place a registration scheme for competent heat pump installers	Q4 2021	DCCAE	SEAI
Complete 2023 Cost Optimal study to identify cost optimal performance for NZEB Dwellings to take account of developments in supply chain	Q1 2023	DHPLG	SEAI
Coordinate the roll out of a training programme to up skill approximately 300-500 heat pump installers	Q4 2023	DCCAE	DES, SOLAS, ETBs, DHPLG
Subject to completion of the above actions and results of 2023 cost optimal study, advance the building regulations requirements for new dwellings to a performance requirement based on the use of heat pumps	Q4 2025	DHPLG	

Schools and Third Level Institutions

Action 67: Set a trajectory for commencing and implementing the Department of Education and Skills deep energy retrofit programme			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Supporting capital investment in the higher education sector, both in the upgrade and retrofit of existing buildings, which will incorporate energy efficiency improvements, and new buildings which are built to NZEB standards	2019 and Ongoing	DES	Higher Education Authority
Energy Retrofit Pilot 2019 & continued funding	Q4 2019 & Ongoing	DES	SEAI, Schools, DCCAE
Consider removal of regulatory barriers for energy retrofits via broadening exempted development: Treating as exempted developments, temporary accommodation used solely for decanting schools so that their buildings can undergo an energy retrofit is exempted Clarify if action is required to maximise existing exempted development regarding external wall insulation on refurbishment school projects by developing additional guidelines	Q4 2019	Consider establishing Working Group comprising DES, DCCAE, DHPLG, SEAI, local authorities and other partners to explore potential in school sector	
Undertake an updated space survey of the higher education sector, to fully ascertain the baseline with regard to energy efficiency and inform future capital investment	Q2 2020	DES	Higher Education Authority
Developing and resourcing a scalable model of energy efficiency retrofits in the school sector to commence in 2022 for energy upgrades of schools built before 2008	Q4 2022	DES	

Energy Performance Contracting

Action 68: Support the wider deployment and use of EPCs by building capacity and expertise in the public sector			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
SEAI will continue to promote awareness and understanding of EPC, and provide Project Assistance Grants, training and other supports to public and private sector organisations to implement EPC projects	Ongoing	SEAI	
Instigate analysis of the further potential for EPC to deliver energy efficiency projects in the Irish Public Sector as part of the EU structural fund (SRSS) support study	Q2 2019	DPER	DCCAIE, SEAI
Highlight more widely the potential of EPC and resources already in place to help PSBs to help public bodies identify opportunities for its appropriate use (e.g. guidance, standardised forms of contract and project assistance grants); examples of where EPC is being used effectively.	Q4 2019	SEAI D/EPO	D/EPO
Develop and deliver EPC facilitator training	Q2 2020	SEAI	AIEA (Association of Irish Energy Agencies)
Facilitate PSBs and sectors, as part of their energy efficiency improvement plans, to develop, embed or access, the competencies and resources needed to avail of EPC, (whether centralised EPC expertise or dispersed/tailored approaches)	Q2 2020	SEAI	
Develop procurement frameworks as required to facilitate more cost effective and efficient procurement of ESCO (Energy Service Companies) services	Q4 2020	OGP	SEAI
Consider the findings of the (SRSS) study and develop Recommendations for PS Bodies which clarify (from a DPER perspective) the role of EPC in PS energy efficiency projects and sectors, including the on/off Government Balance Sheet consideration, and where it can and/or should be used for delivering the project investment pipeline needed to achieve the 2030 target.	Q4 2020	DPER	DCCAIE

Renewable Heat and District Heating

Action 69: Complete the rollout of the SSRH, including support for biomass and anaerobic digestion heating systems			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Open the second phase of the SSRH providing multi-annual support payments to anaerobic digestion and biomass heating systems and review tariffs on an annual basis	Q3 2019	DCCAIE	SEAI

Action 70: Develop a policy framework for the development of district heating in Ireland and support the delivery of two district heating projects under the Climate Action Fund			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Commence the South Dublin County Council Tallaght District Heating Scheme project, supported by the Climate Action Fund, which will provide low-carbon heat to buildings in Tallaght	Q4 2019	DCCAIE	SDCC
Publish a draft Policy Framework for District Heating in Ireland, for public consultation. Framework to focus on the key areas of regulation, planning, funding and research	Q4 2019	DCCAIE	District Heating Working Group
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	Q2 2020	DCCAIE	DCC
Finalise the Policy Framework for District Heating in Ireland and implement	Q4 2020	DCCAIE	
Develop a technical manual to assist in the preparation and development of local energy masterplans, particularly for urban areas. Assessments should include local heat maps and spatial analytics, outlining of options, identification of clusters of mixed-use development particularly commercial industrial uses, least cost options and steps for project implementation	Q4 2020	SEAI	LAs, DPHLG
Examine potential of Geothermal to contribute to District Heating in Ireland and develop Roadmap	Q4 2020	DCCAIE	GSI

Biogas and Biomethane

Action 71: Set a target for the level of energy to be supplied by biomethane injection in 2030			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Carry out a public consultation on the development of the Biofuels Obligation Scheme, including the addition of an advanced biofuel obligation which could increase the supply of biomethane to the transport sector	Q3 2019	DCCAE	DTTAS
Develop updated feasibility study on the availability of sustainable feedstocks for an AD industry in Ireland, particularly availability of biodegradable materials including surplus grass in dairy/pig intensive catchments for use in AD and potential fertiliser displacement value	Q4 2019	Teagasc	DAFM, SEAI
Set a 2030 target for the level of energy to be supplied by indigenous biomethane injection. The development of this target will take into account the most recent evidence in relation to domestic supplies of sustainable feedstock and consider how supports to reach such a target would be funded (e.g. exchequer support, PSO, obligation)	Q1 2020	DCCAE	DAFM, SEAI, EPA
Complete a review of options for the disposal of poultry litter	Q2 2020	DAFM	
Assimilate policy relevant findings of ongoing research, commissioned by DAFM, SEAI and GNI, in regard to AD technologies more suited to the small-scale applications for biogas in the Irish context	Q2 2020	DCCAE	SEAI, SFI, EPA, DAFM, DEBI, Teagasc,
Development of a system of certification for renewable gas use in the national grid	Q2 2020	DCCAE	GNI
Assess potential impacts of moving anaerobic digestion above composting in the waste management hierarchy. Consider in particular impacts for the development of the bio economy	Q2 2020	EPA	DCCAE, DAFM, LAs
Consider options to avail of AD infrastructure to manage animal manure production	Q4 2020	DAFM	EPA, Teagasc,

Transport

EV and CNG Station Network

Action 72: Develop the EV charging network necessary to support the growth of EVs to at least 800,000 by 2030 and set a target for the supply of infrastructure to stay sufficiently ahead of demand

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Introduce a capital support that will be provided to Local Authorities for the development of up to 200 on-street public chargers per annum	Q3 2019	DCCAIE	SEAI
Commence the ESB Electric Vehicle High Power Charging Infrastructure Development Project, supported by the Climate Action Fund, which will support growth to at least 40,000 electric vehicles	Q3 2019	DCCAIE	ESB eCars
Include electric vehicle fast chargers as a category eligible for support in the next call for Expressions of Interest from Climate Action Fund	Q4 2019	DCCAIE	
Expand the Electric Vehicle Home Charger Grant to include shared parking (e.g. in apartment blocks)	Q1 2020	DCCAIE	SEAI
Carry out an updated needs analysis for fast chargers based on a level of 75,000 electric vehicles by 2022, taking into account market developments – including commercial plans for fast charger rollouts following the introduction of fees	Q1 2020	DCCAIE	
Develop an overarching charging infrastructure strategy with a target to be set for the supply of infrastructure to stay ahead of demand. Review and update the targets (currently set out in the National Policy Framework for Alternative fuels Infrastructure for Transport in Ireland 2017-2030) for the supply of public charging infrastructure for electric vehicles, taking into account the proposed uptake of electric vehicles set out in this plan.	Q1 2020	DCCAIE	DTTAS
Carry out an updated needs analysis of the electric vehicle charging network based on a level of 175,000 electric vehicles by 2025	Q1 2023	DCCAIE	

Action 73: Develop and implement planning rules and guidelines across residential and non-residential parking locations for EV charging infrastructure

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Update planning rules and guidelines, as appropriate, based on updated standards, grid requirements and implementation of the revised Directive 2018/844/EU	Q1 2020	DHPLG	
Review planning guidelines with a view to increasing the obligation	Q4 2020	DHPLG	

Action 74: Ensure our regulatory regime for buildings requires the installation of EV charging infrastructure

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Transposition of Article 8 of Energy Performance in Buildings Directive on electromobility for residential, non-residential, new and existing buildings	Q1 2020	DHPLG	
Provide for measures to simplify deployment of recharging points in new and existing residential and non-residential buildings and address regulatory barriers	Q1 2020	DHPLG	DCCAE, DTTAS
For non-residential buildings with more than 20 car spaces – lay down requirements for installation of minimum number of recharging points	Q1 2025	DHPLG	

Action 75: Develop an NSAI Standards programme to support climate action policy, focusing initially on supporting the supply chain for renewables, retrofitting and climate adaptation, including standard for electrical wiring rules to include guidance for EV chargers

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Agree scope and resources	Q3 2019	NSAI	SEAI, DCCAE, DHPLG
Finalise programme	Q4 2019	NSAI	SEAI, DCCAE, DHPLG

Action 76: Develop the CNG fuelling network to support the uptake of CNG vehicles

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Carry out a public consultation on the Biofuels Obligation Scheme to include the development of an advance biofuel obligation to increase the supply of renewable gas (i.e. biomethane) to the transport sector via CNG fuelling stations	Q3 2019	DCCAE	
Include CNG public fuelling stations as a category eligible for support in the next call for Expressions of Interest from Climate Action Fund	Q1 2020	DCCAE	
Assess the current and planned developments of CNG fuelling stations to inform the need to include a dedicated category of support in future calls from Climate Action Fund	Q2 2020	DCCAE	
Commence the Green Renewable Agricultural Zero Emissions (GRAZE) Gas Project, supported by the Climate Action Fund, which will include support for two CNG stations	Q4 2020	DCCAE	GNI
Complete the rollout of 14 public CNG fuelling stations as part of the Causeway Project	Q4 2020	DCCAE	GNI

Biofuels

Action 77: Increase the use of biofuels to contribute to the growth of renewable energy and reduction of GHG emissions in the transport sector

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Carry out a public consultation on the development of the Biofuels Obligation Scheme in the period 2021-2030	Q3 2019	DCCAE	
As part of the National Energy and Climate Plan, set out the planned level of biofuel use in 2030, the trajectory from 2021 to that point, and planned changes to the Biofuels Obligation Scheme to support this	Q4 2019	DCCAE	
Transpose the biofuel elements of the Renewable Energy Directive including the changes to the Biofuels Obligation Scheme required to meet the planned level of biofuel use in 2030	Q2 2021	DCCAE	

Regulation and Fiscal Measures

Action 78: As an alternative to the current grant regime, consider in 2020 a car-scrappage scheme to promote the purchase of electric vehicles

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q1 2020	DFin	DCCA, SEAI, DTTAS, DPER

Action 79: Develop a roadmap on the optimum mix of regulatory, taxation and subsidy policies to drive significant ramp-up in passenger EVs and electric van sales from very early in the next decade

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop a roadmap to determine the optimum pathway for EV deployment	Q2 2020	DTTAS	DCCA, SEAI, DFIN, DPER

Action 80: Introduce legislation to ban the sale of new fossil fuel cars from 2030 and to stop the granting of NCTs from 2045. We will also report on the carbon impact of new sales each year

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q4 2020	DTTAS	DCCA

Action 81: Develop a regulatory framework on low emission zones and parking pricing policies, and provide local authorities with the power to restrict access to certain parts of a city or a town to zero-emission vehicles only. Examine the role of demand management measures in Irish cities, including low emission zones and parking pricing policies

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Commission a Demand Management study to: <ul style="list-style-type: none"> - Consider key demand management drivers in an Irish context (e.g. congestion, air quality, climate considerations) - Review international best practices on measures such as congestion charges, LEZs, and parking policies - Recommend most appropriate responses for Dublin/Cork/Galway/Limerick taking into account overall transport strategies in each case 	Q4 2019	DTTAS	NTA, LAs
Publish findings of the Demand Management study	Q3 2020	DTTAS	
Based on findings of study develop proposals for setting an appropriate regulatory framework	Q4 2020	DTTAS	NTA, LAs

Action 82: Consider the recalibration of VRT and motor tax regimes for passenger cars in light of recent progress on emissions standards and to further incentivise LEVs

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Recalibrate VRT and motor tax regimes for passenger cars in light of recent progress on emissions standards	To be examined in context of the Budget	DFin	

Action 83: Consider the introduction of an emissions-based VRT and motor tax for LGVs and HGVs

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Introduce an emissions-based VRT and motor tax for Light Goods Vehicles (LGVs) and Heavy Goods Vehicles (HGVs)	To be examined in context of the Budget	DFin	

Action 84: Consider updating and applying the CO₂ based taxation for vehicle BIK regime

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Consider updating the CO ₂ based taxation bands for BIK	Q3 2019	DFin	
Introduce CO ₂ based taxation for vehicle BIK regime	To be examined in context of the Budget	DFin	

Empowering Modal Shift and Sharing Economy in Transport

Action 85: Transition the urban PSO public bus fleet to LEVs

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Initiate tender process for a framework contract for the purchase of double-decker hybrid buses (diesel/electric)	Q3 2019	NTA	
Complete Low Emission Bus Trial	Q3 2019	DTTAS	
Public Consultation on alternatively fuelled buses (part of a wider public transport policy consultation)	Q3 2019	DTTAS	
Award framework contract for the purchase of double deck hybrid buses and place first orders	Q4 2019	NTA	
Adoption of Medium Term Fleet Technology Pathway for the Public Bus Fleet	Q4 2019	NTA	
First 100 low emission buses enter the urban bus fleet	Q4 2020	NTA	

Action 86: Set a road map for more LEVs in public sector fleets

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop a clear roadmap to increase the penetration of low emission vehicles in public fleets	Q2 2020	DTTAS	NTA

Action 87: All future procurement processes for public buses will include evaluation of procuring only fully electric buses. This evaluation will include review of how electric buses have been introduced into other cities in a cost effective way, including London, Paris and Manchester. It will also consider how smart finance could be used to overcome the higher upfront capital costs of electric buses. This will include consideration of paying a fixed charge for their use, instead of buying up front (as has been done in Chile) or using a commercial agreement to convert capex to opex (as is offered by US transport company Proterra)

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q4 2019	DTTAS	NTA

Action 88: Increase public bus network capacity and usage (implementation of BusConnects services network)

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Publish revised BusConnects Dublin network for public consultation	Q3 2019	NTA	
Implementation planning for revised network introduction	Q1 - Q4 2020	NTA	LAs
Implementation of revised network in phases	Q1 2021 - Q4 2023	NTA	
Implement BusConnects localised travel planning/ information programme	Q1 2021 - Q4 2023	NTA	

Action 89: Establish a “Park and Ride Development Office” within NTA and develop overall Park and Ride Implementation Plan, including the provision of multimodal facilities (e.g. EV charging/bicycle parking)

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Establish a Park and Ride Development Office within NTA and develop a 5 year strategy and implementation plan with specific timelines	Q4 2019	NTA	

Action 90: Add additional capacity to Luas network

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Delivery of first tram extension (extends 42m tram to 54m) for testing and commissioning	Q3 2019	NTA	
Completion of delivery of the overall order of 26 tram extensions	Q3 2021	NTA	
Delivery of additional 8 high capacity trams	Q3 2021	NTA	

Action 91: Undertake an expansion of cycling infrastructure through the establishment of a “Cycling Project Office” within the National Transport Authority and develop an implementation plan

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Establish a Cycling Project Office within NTA and develop a 5 year strategy and implementation plan with specific timelines	Q4 2019	NTA	

Action 92: Commence the transition to hybrid trains to allow extended electrification of rail services

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Complete rail fleet technology assessment, adopt rail fleet strategy and initiate tender process for bi-mode/electric fleet	Q3 2019	NTA	CIE
Award framework contract for the purchase of bi-mode/electric fleet and place first orders	Q2 2020	NTA	
Delivery of first bi-mode/electric fleet	Q4 2023	NTA	

Action 93: Extend the Dublin area railway electrification for the Maynooth Line (to Maynooth), Kildare Line (to Celbridge) and Northern Line (to Drogheda)

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Seek Railway Orders for Maynooth Line (to Maynooth), Kildare Line (to Celbridge) and Northern Line (to Drogheda)	Q4 2021	NTA	
Commence electrification of first of the three lines	Q1 2023	NTA	
Complete electrification to Maynooth, Celbridge and Drogheda	Q4 2027	NTA	

Action 94: Review public and sustainable transport policy and develop a roadmap to decarbonise all PSO public transport

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Publish public consultation on public/sustainable transport policy, including rural transport	Q3 2019	DTTAS	
Review to include consideration of electrification of public transport	Q3 2019	DTTAS	

Action 95: Develop and implement cycle network plans for all major cities

Steps Necessary for Delivery	Timeline by quarter	Lead	Other Key Stakeholders
Produce strategies	Q4 2020	NTA	LAs

Action 96: Review and bring forward a revised implementation plan for the outstanding policies and actions in the 2009-2020 policy Smarter Travel, A Sustainable Transport Future in time for Budget 2020

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Publish a revised implementation plan for Smarter Travel	Q3 2019	DTTAS	

Action 97: Commence full implementation of the National Cycle Policy Framework

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Every local authority to set forth a clear pathway and timetable for the installation of dedicated cycling infrastructure	Q4 2020	DTTAS	LAs
Increase funding in dedicated cycling infrastructure	Q4 2020	DTTAS	LAs
Current transport infrastructure programmes to immediately be revised to achieve at least 10% expenditure on facilitating cycling	Q4 2020	DTTAS	LAs

Action 98: All cities with a population exceeding 75,000 to produce a sustainable transport plan by no later than June 2020 for review by the NTA and DTTAS

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Produce a sustainable transport plan	Q2 2020	LAs	DTTAS, NTA

Action 99: Publish an updated strategic rail review paper

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Strategy paper to be produced outlining all feasible options and associated investment implications	Q1 2020	DTTAS	Iarnród Éireann

Action 100: Develop a new rural transport strategy

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Produce a new rural transport strategy to include: <ul style="list-style-type: none"> a comprehensive assessment of rural travel demand, and methodologies for determining same set a target for modal shift and emissions reductions for 2021-2025 develop proposals for an integrated public transport network develop a pilot scheme for a city and its regional hinterland to develop a best practice model pilot a car sharing initiative such as a vehicle bank in rural towns 	Q1 2020	DTTAS	Relevant Departments, agencies, LAs

Agriculture, Forestry and Land Use

Irish Agriculture Vigorously Adopting Carbon Abatement Opportunities and the Food Industry Encouraging this Transformation

Action 101: Bring forward proposals for the introduction of measures to implement the full suite of options set out in the June 2018 Teagasc Report, 'An Analysis of Abatement Potential of Greenhouse Gas Emissions in Irish Agriculture 2021-2030'

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Key steps include design of CAP, knowledge transfer, incentive to diversification in rural economy	Q2 2020	DAFM	

Action 102: Implement suite of measures to improve nitrogen use efficiency

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Establish an industry group to promote new “environmentally friendly” branding and standards on low emissions fertilisers to improve awareness	Q4 2019	DAFM	
Develop a blueprint for low N use suitable to all productivity levels and develop implementation options	Q2 2020	Teagasc	DAFM
Reduce nitrogen fertiliser use through the inclusion of clover in grassland swards	Q2 2020	Teagasc	DAFM
Improve adoption of Low Emissions Slurry Spreading equipment	Q4 2020 / ongoing	DAFM	Teagasc
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 ₂ O emissions	Q4 2021 Q1 2022	Teagasc DAFM	

Action 103: Support the maximum possible environment and climate ambition in the post-2020 CAP

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Engage in negotiation of CAP regulations	Ongoing	DAFM	
Preparation of SWOT analysis on basis of internal, external ex-ante evaluation and SEA for input to the development of the CAP Strategic Plan	Q3 2019 / Ongoing	DAFM	
Consultation on draft interventions	Q3 2019	DAFM	
Public consultation on the SEA of the draft CAP Strategic Plan	Q4 2019	DAFM	
Submit draft CAP Strategic Plan submitted to the European Commission	Q2 2020	DAFM	

Action 104: Improve livestock management, including through extended grazing

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Explore scope to promote increased grassland infrastructure investment –continue to promote sustainable use of grassland in milk and meat production	Q4 2020	DAFM	Teagasc

Action 105: Develop research and innovation infrastructure

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Enhance the capability of the agricultural catchment programme to monitor emissions across farming systems	Q3 2019	DAFM	Teagasc
Ensure Ireland has world class capability in greenhouse gas and other environmental abatement technologies, research and development	Q2 2020 / ongoing	DAFM	Teagasc
Enhance the ability of the NFS by expanding its capacity to collect environmental data to enhance the GHG inventory System	Q4 2020	Teagasc	

Action 106: Establish feed modification programme			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Establish research programme into feed additives, in grass based production systems	Q4 2019	DAFM	Teagasc
Establish an Animal Feed Network Stakeholder group to review the environmental standards in all livestock rations and to ensure industry wide engagement in role of feed supplements and altered crude protein and oil levels to reduce methane and ammonia emissions	Q4 2019	DAFM	

Action 107: Introduce measures to promote improved efficiency in livestock			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Evaluate and promote options for climate efficiency in beef production such as the dairy beef index and wider roll-out of genotyping ⁶ to underpin and promote the dairy beef index	Q4 2020	DAFM	
Monitor reductions in beef production emission intensity through improved beef genomics by increases in Maternal Replacement value (BDGP & BEEP herds)	Q4 2020	DAFM	
Monitor reductions in dairy production emission intensity through improved genetic merit of the dairy herd by wider adoption of the dairy EBI	Q4 2020	DAFM	
Undertake a feasibility study around management options for non-breeding calves coming from dairy herd i.e. sexed semen	Q4 2022	DAFM	Teagasc

Action 108: Review animal health and finishing regimes			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Explore feasibility of broadening the beef and dairy health programmes and strategies for implementation	Q4 2020	Animal Health Ireland	
Explore feasibility and cost effectiveness of reducing the finishing age of beef	Q4 2020	DAFM	Teagasc

⁶ Genotyping is currently compulsory in BDGP herds. The aim of this exploration would be to target the potential 1m head dairy origin beef animals to indicate beefing potential.

Action 109: Improve on-farm slurry management			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Establish further research into slurry amendments, impact on GHG/ammonia emissions and potential impact on soil fertility and quality	Q4 2019	DAFM	Teagasc
Undertake a cost benefit study to underpin manure storage choices and recommendations	Q4 2020	DAFM	Teagasc
Utilise next Nitrates Derogation to provide a clear signal regarding efficiency of manure and fertiliser use	Q4 2021	DAFM	
Adopt a pilot scheme for slurry amendments in external stores	Q4 2021	DAFM	Teagasc

Action 110: Actively engage all stakeholders to develop a roadmap to ensure the future development of the agriculture and land-use (including forestry) sector will be built on environmental sustainability, and contribute fairly to Ireland's climate, air and energy targets			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop roadmap building blocks: vision, mission, principles and targets	Q3 2019	DAFM	Teagasc, BordBia
Establishment of workstreams to develop actions to deliver targets	Q3 2019	DAFM	Teagasc, BordBia
Public consultation on the roadmap	Q4 2019	DAFM	
Publication of the roadmap	Q4 2019	DAFM	

Action 111: Introduce enhanced knowledge transfer programme through Teagasc advisory service

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Engage with Industry to explore establishment of “sign-post” networks or communities within the agricultural sector to be leaders in adopting mitigation measures	Q2 2020	Teagasc	DAFM, SEAL, Bord Bia
Develop advisory strategy on GHG reduction with core targets on NMP implementation, soil fertility, use of lime, grassland management and encompassing enhanced promotion of existing awareness campaigns and tools	Q4 2020	Teagasc	DAFM
Update carbon navigator to include latest MACC analysis	Q4 2020	Teagasc	BordBia
Review effectiveness of Teagasc options programme which covers promotion of organics and farm income diversification options.	Q4 2021	Teagasc	

Action 112: Develop exemplar networks with leaders in adopting best practice to improve soil fertility and optimise fertiliser use leading to reduced GHG emissions and enhanced carbon sequestration in soil/ biomass

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Engage with individuals and groups to explore establishment of exemplar “sign-post” networks and communities within the agricultural sector to be leaders in adopting best practice to improve soil fertility leading to reduced N ₂ O emissions and enhanced carbon sequestration in soil/ biomass	Q2 2020	Teagasc	DAFM, BordBia

Action 113: Commission an independent assessment of GHG abatement measures to establish what additional measures can be developed

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Ensure additional abatement opportunities, if any, are considered for implementation	Q4 2020	DAFM	
Commission a review of Teagasc MACC, including updating it	Q2 2021	DAFM	DCCAE

Action 114: Undertake a review of nitrogen fertiliser management and imports on nitrates derogation farms in 2019 in view of impacts on soil fertility, as well as EU climate and nitrate obligations

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Review the conditionality of nitrate derogation terms including use of LESS, Nutrient Management Planning training, use of grass measurement tools	Q4 2019	DAFM	
Undertake analysis for the development of a recording system to improve traceability of fertiliser movements and simplify NMP record keeping and enforcement	Q4 2020	DAFM	

Promoting Diversification of Land Use, Part of Gradual Transition

Action 115: Implement and review roadmap for achieving afforestation rates as outlined in the Programme for Government and Forestry Programme Mid-Term Review

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Initiate a review of recommendations outlined in the 2018 COFORD Forest Land Availability Implementation Group Report to identify measures required to remove barriers and increase levels of afforestation. Address potential for additional afforestation on state-owned land and forest estate access requirements	Q3 2019	DAFM	Teagasc
Identify options and appropriate instruments to address barriers to increase in afforestation rates	Q3 2020	DAFM	

Action 116: Implement the Forestry Programme 2014-2020 in line with Mid-Term Review recommendations and targets set

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Promote forestry generally through Teagasc and DAFM initiatives, under the aegis of the Forestry Promotion Working Group, chaired by DAFM Minister of State	Q1-Q4 2019	DAFM	Teagasc
Progress the measures introduced under the government's Mid-Term Review of the Forestry Programme 2014-2020, including the promotion of the Woodland Environmental Fund	Q3 2019	DAFM	
Consider options for incentivising appropriate forestry measures, including agroforestry, as a complementary land use for farmers under the CAP post 2020	Q3 2019	DAFM	
Increase the number of new Knowledge Transfer Groups, which promote sustainable forest management, mobilisation of timber amongst forest owners	Q4 2019	DAFM	
Encourage existing forestry producer groups in timber mobilisation and forest management	Q4 2019	DAFM	Teagasc
Continue to incentivise private afforestation through 100% establishment grant and 15 year premiums for private afforestation under the Afforestation Scheme and increase promotional activities	Q4 2020	DAFM	Teagasc
Put in place a publicly funded capital programme for afforestation beyond the lifetime of the current Forestry Programme 2014-2020, as provided for in the National Development Plan 2018 -2027	Q4 2020	DAFM	

Action 117: National Bioeconomy Implementation Group to examine sectoral coherence, network and awareness raising, research and innovation and the circular bioeconomy potential of harnessing the value from side-streams from both agriculture and forestry

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Engage with SFI and industry best practice to explore possibilities for the use of wood cellulose opportunities	Q1 2020	DAFM	DCCAIE, EU Commission, US Ireland Fund, EPA, SEAI, SFI
Identify additional opportunities for inclusion of wood based products and derivatives in the Bioeconomy	Q2 2020	DAFM	DCCAIE, EI

Action 118: Work with industry stakeholders to increase the use of low carbon materials, taking into account international best practice			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Initiate an assessment of current (domestic) contribution of timber products to the construction sector in Ireland. Comparison with EU members to establish benchmark. Consider potential targets for use of timber in Ireland	Q1 2020	DAFM	DHPLG
Ensure that forests and wood are incorporated into relevant DAFM policies and initiatives – removing barriers and disincentives and exploiting opportunities. Review TAMS scheme to ensure timber specifications reflect current best practice	Q1 2020	DAFM	
Support and include stronger emphasis on the use of timber in public procurement and consider a “think wood first” policy in green procurement where practical	Q2 2020	DAFM	DCCA, OPW, OGP
Examine life cycle analysis and embedded energy in buildings to compare the use of sustainable materials	Q2 2020	SEAI	DPER
Disseminate research findings from DAFM funded work on Irish timber and the potential of cross-laminated timber and other engineered wood products	Q4 2020	DAFM	
Collaborate with Industry to develop a promotional campaign to encourage the increased use of timber in the economy	Q1 2021	DAFM	Enterprise Ireland, Teagasc, Forest Industry Stakeholders, HEIs
Develop a roadmap to promote greater use of lower-carbon building material alternatives in construction	Q1 2021	OPW	DCCA, SEAI, DHPLG, DAFM
Consider opportunities to locate and build an exemplar public building using best available sustainable materials and in particular using wood	Q4 2021	DAFM	DCCA, OPW

Action 119: Increase productivity and resilience of the national forest estate and tree species to improve adaptation to climate change to deliver cumulative additional sequestration potential

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Continue to implement tree breeding programmes for key species to increase productivity and resilience and increase species diversity in the national forest estate	Q3 2019	DAFM	Teagasc, Coillte
Continue to implement Forest Genetic Resources Seed Stand and Seed Orchard scheme to increase supply of selected and improved forest reproductive material	Q3 2019	DAFM	
Develop and implement national tree gene conservation strategy to ensure the dynamic conservation of key tree species	Q2 2020	DAFM	

Action 120: Develop tools for communicating productivity and climate benefits of forests for landowners

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Promote the DAFM felling decision tool and other forest management tools Incorporate use of the tool into relevant advisory Services	Q3 2019	DAFM	
Support the development of a stand level forest carbon calculator	Q1 2020	DAFM	Teagasc

Action 121: Work with other public bodies and community groups exploring opportunities to increase public access in forests on publicly owned lands

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
DAFM to follow up on feedback from recent promotion campaign to explore opportunities for new amenity forests	Q3 2019	DAFM	
Explore possibilities to encourage increased public access in woodlands and continue to promote the NeighbourWood Scheme	Q3 2020	Coillte	NPWS, DAFM, DCHG

Action 122: Improve the accuracy of carbon accounting and existing yield models to optimise carbon sequestration benefits, and investigate the effect of different forest management scenarios on carbon within the context of carbon accounting

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Set up roundwood forecast group to generate updated forecast to model future timber flows	Q2 2020	DAFM	
Review GROWFOR, available yield models and other forest tools, such as Carbon Budget Model, for potential upgrading and dissemination	Q4 2020	DAFM	Teagasc, HEIs, EPA
Continue to model the impacts of different afforestation rates and management practices and their impacts on carbon accounting	Q4 2020	DAFM	

Action 123: Continuation and strengthening of activity in forest health, including monitoring and surveillance of the health and vitality of Ireland's forest estate and implementation of import controls on a range of plants, wood and wood products

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Promote policies and information to reduce risks of damage to the forest estate e.g. fire, wind, flooding. Prepare Agriculture Adaption Plan	Q3 2019	DAFM	Teagasc
Ongoing monitoring and surveillance of the forest estate to identify and act on any potential forest health issues identified	Q4 2019	DAFM	
Ongoing inspection and control of imported plants, wood and wood products in order to prevent the introduction (and spread) of potentially harmful forest pests and disease	Q4 2019	DAFM	

Action 124: Support Regional Assemblies to identify areas of potential growth in the bioeconomy

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Regional Assemblies to complete their Regional Spatial and Economic Strategies	Q4 2019	NWRA, EMRA, SRA	DHPLG
Understanding of market opportunities and development of sustainable value chains and evaluation of technologies based on the bioresources available in each regional area including innovation support and training required to facilitate scale-up	Projects Ongoing with milestones in 2019/2020	Teagasc	HEIs CRÉ, DAFM, SEAI
Assess the need for mapping of bioresources for further identification of the biorefining potential in each regional area	Q4 2020	Bioeconomy Implementation Group (coordinated by DCCA, DAFM)	Regional Assemblies

Action 125: A greater focus on research into land diversification in agricultural colleges, the EPA and Teagasc, to help educate farmers on the benefits of diversification

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Engagement with third level education institutes to review provision of course and module programmes related to agriculture and land use	Q4 2019	HEA	Irish Universities Association, Technological Higher Education Authority, DAFM, Teagasc
Review of second level course material on climate change on agriculture and land use relevant to core and elective subjects	Q4 2020	DES	DAFM, Teagasc
Review of vocational training course material on climate change on agriculture and land use relevant to core and elective subjects	Q4 2020	DES	DAFM, Teagasc

Action 126: Upskill farmers and foresters to ensure they have the knowledge and tools required to implement climate mitigation practices

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Fund Knowledge Transfer Programme and include climate mitigation and adaptation practices	Q1 - Q4 2019	DAFM	Teagasc and Advisory Services
Develop metrics and data systems to capture the impact (implementation) of knowledge transfer	Q4 2020	DAFM	Teagasc

Cost-effective Energy Substitutes

Action 127: Seek to bridge the short term supply gap in indigenous biomass

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Increase forest road construction to facilitate increased mobilisation of timber from existing private forests that are suitable for thinning. Step up required action in kilometres of road constructed from 2018 levels (72 km) to at least 125 km per year by 2020	Ongoing	DAFM	
Desktop study to carry out a spatial assessment of the forest estate to determine the connectivity of the forest road network to the public road network with the purpose of increasing the mobilisation of timber. Assess the requirement for additional new forest roads to mobilise the forecasted increase in timber supply	Q4 2019	DAFM	
Assess the potential for State-owned land to be used for afforestation	Q4 2019	DAFM	

Action 128: Support the use of biomass to increase the level of renewable energy in the heat sector

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Consolidate evidence on current and expected supply of biomass within Ireland. Drawing upon existing reports from Government, Government Agencies and industry stakeholders	Q4 2019	DAFM	SEAI
Monitor expected indigenous biomass supply chains from materials which include forest thinning and sawmill residue. Recognise potential interruptions to supply over time. Communicate spatial mapping of biomass supply to match with potential end users	Q4 2019	DAFM	SEAI
Support implementation and enforcement of Biomass Sustainability Criteria. Support the development of a certification scheme for solid and gaseous biomass supply for Ireland	Q4 2019	SEAI	DCCA, DAFM, Teagasc, EPA

Action 129: Develop comprehensive sustainability criteria for biomass production by mid 2021

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Examine current sustainability criteria taking into account international best practice and develop criteria to be applied nationally by end of 2020	Q2 2021	DCCA	DAFM

Action 130: Set a target for the level of energy to be supplied by indigenous biomethane injection in 2030, taking account of the domestic supplies of sustainable feedstock and consider how the supports necessary to reach such a target would be funded

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Set a target for the level of energy to be supplied by indigenous biomethane injection in 2030. The development of this target will take into account the most recent evidence in relation to domestic supplies of sustainable feedstock, sustainability, and consider how the supports necessary to reach such a target would be funded (e.g. exchequer support, a levy on consumers, obligation etc.)	Q3 2019	DCCAE	EPA, DBEI, GNI, LAs, DAFM, SEAI
Carry out a public consultation on the Biofuels Obligation Scheme to include the development of an advanced biofuel obligation to increase the supply of renewable gas (i.e. biomethane) to the transport sector via CNG fuelling stations	Q3 2019	DCCAE	
Assimilate policy relevant findings of ongoing research, commissioned by DAFM, SEAI and GNI, in regard to AD technologies more suited to the small-scale applications for biogas in the Irish context	Q1 2020	DCCAE	SEAI, SFI, EPA, DAFM, DBEI, Teagasc
Complete a review of options for the disposal of poultry litter	Q2 2020	DAFM	
Development of a system of certification for renewable gas use in the national grid	Q2 2020	DCCAE	GNI
Assess potential impacts of moving anaerobic digestion above composting in the waste management hierarchy. Consider in particular impacts for the development of the bio economy	Q2 2020	EPA	DCCAE, LAs, DAFM
Develop updated feasibility study on the availability of sustainable feedstocks for an AD industry in Ireland, particularly availability of biodegradable materials including surplus grass in dairy/pig intensive catchments for use in AD and potential fertiliser displacement value	Q4 2020	DAFM	Teagasc, SEAI
Consider options to avail of AD infrastructure to manage animal manure production	Q4 2020	DAFM	EPA, Teagasc

Better Management of Peatlands and Soils

Action 131: Assess and implement mitigation options on rewetted organic soils			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Assess the options for land use management of re-wetted organic soils.	Q2 2020	DCCAIE	Bord na M6na, Teagasc, NPWS, DAFM
Research on the potential for productive use of rewetted peatlands, including paludiculture	Q4 2020	Teagasc	Bord na M6na

Action 132: Deliver the full LULUCF flexibility available to Ireland in the context of the 2030 GHG targets			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Establish a project to identify areas of Carbon rich soils under agricultural management (at least 40,000ha)	Q4 2019	DAFM	EPA, Teagasc, DCCAIE, NPWS
Identify actions required to reduce carbon loss and enhance or quantify increased carbon sequestration through the development of an appropriate decision support tool	Q4 2020	DAFM	Teagasc
Implementation of a pilot scheme on reduced management intensity to serve as "proof of concept" as a viable mitigation option	Q4 2021	DAFM	Teagasc
Subject to the results of the pilot scheme, explore options under the new CAP for wider roll out of the pilot	Q4 2022	DAFM	

Action 133: Assess and implement mitigation options on post-production, peat extraction sites			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Assess the optimum post production after-use across all Bord na Móna peat extraction sites	Q3 2019	Bord na Móna	
Timely implementation and optimum management practices on extraction sites as they retire from production	Q3 2019 -ongoing	Bord na Móna	
Establish a focused research and development programme to ensure robust National Inventory Systems are in place to report and account LULUCF emissions and removals	Q2 2020	EPA	DAFM, Teagasc
Assess the status and mitigation potential for other commercial and private peat extraction across Ireland	Q4 2020	EPA	NPWS, DAFM
Evaluate natural resources concealed by peat cover in the Midland counties. Outline potential for communities and industry to utilise available sand and gravel deposits, minerals, groundwater and deeper geothermal energy resources as part of a Just Transition for these areas	Q4 2020	GSI	DCCAIE

Action 134: Implement measures for peatlands conservation			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Restoration of 22,107 hectares of raised bog habitat which will directly reduce/halt carbon loss	2019-2035	NPWS	DCHG, EPA, DCCAIE
Establish a number of priority peatland sites as part of a network of climate change related indicators as EU and global monitoring sites	2019-2020	NPWS	DCHG, EPA, DCCAIE
Assess the vulnerability of Ireland's functioning peatlands to the impacts of climate change	2019-2023	DCCAIE	EPA, NPWS, DCHG

Waste and the Circular Economy

Action 135: Lead the transformation from waste management to circular economy practice through delivery of a new national policy

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Commence public consultation on waste policy	Q3 2019	DCCAE	
Review of submissions for development of draft plan	Q3/Q4 2019	DCCAE	
Development and publication of Circular Economy Action Plan	Q2 2020	DCCAE	

Action 136: Revise waste legislation to incorporate new circular economy requirements, including legally binding waste/recycling targets

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Prepare and publish transposition legislation instruments for following waste streams:			
Waste	Q2 2020	DCCAE	
Packaging	Q2 2020	DCCAE	
WEEE & Batteries	Q2 2020	DCCAE	
Landfill	Q2 2020	DCCAE	
End of Life Vehicles	Q2 2020	DCCAE	
Single Use Plastics	Q2 2021	DCCAE	

Action 137: Develop a new National Waste Prevention Programme, and Regional Waste Management Plans that will guide our transition to a circular economy by EPA and Local Authorities			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Pre draft consultation	Q4 2020	Regional Waste Management Planning Offices	
Draft plan consultation	Q2 2021	Regional Waste Management Planning Offices	
New Waste Management Plans	Q1 2022	Regional Waste Management Planning Offices	

Action 138: Support the development of eco-design and circular economy opportunities for Irish enterprises to reduce waste over the full lifecycle of products			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Consultation with DBEI on input to Circular Economy Action Plan	Q3 2019	DCCAE	DBEI

Action 139: Develop and implement a suite of measures to reduce the impact of single-use plastics			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Prepare and publish full transposition legislation for EU Single Use Plastics Directive	Q4 2020	DCCAE	

Action 140: Maintain Government leadership in taking responsibility for own resource consumption, particularly single use plastics, energy, waste and water			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Government Departments to publish Resource Efficiency Action Plan	Q3 2019	DCCAE	
Public Bodies to report on sustainability measures	Q4 2019	DCCAE	
Extend Green Government Initiative	Q2 2020	DCCAE	

Action 141: Identify opportunities to strengthen the regulatory and enforcement frameworks and structures for the waste collection and management system, to maximise the collection of clean, segregated materials for reuse and/or recycling from all households and businesses, and to incentivise consumers to reduce, reuse and recycle

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Review waste enforcement legislation as part of waste review	Q4 2019	DCCAE	
New waste enforcement structures	Q4 2020	DCCAE	
Implementation of Regional Waste Management Plans	From Q1 2022	DCCAE	

Action 142: Regulate and incentivise producers of waste, particularly packaging, to ensure the prevention of waste and the use of recycled materials in packaging products

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Pilot eco-modulation fees for packaging	Q3 2019	Repak	DCCAE
New Packaging Waste Directive transposition	Q2 2020	DCCAE	
Implementation of full eco-modulated fees for packaging	Q1 2021	Repak	DCCAE

Action 143: We will scope a number of possible environmental levies, including a possible levy on single use plastics, as part of the review of the Environment Fund. Further detailed research would be required prior to the introduction of any new levy

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q4 2019	DCCAE	EPA

Action 144: We will identify and commence delivery of measures to address the key regulatory barriers to the development of the bioeconomy, including exploring opportunities to establish "End of Waste" criteria for certain bio-wastes

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Identify and address the key regulatory barriers to development of the bioeconomy and commence delivery of measures to address these	Q4 2019	DCCAE	DAFM, Bioeconomy Implementation Group
Assess the current legislative definition of waste	Q4 2019	DCCAE	DAFM, Bioeconomy Implementation Group
Recommend whether a redesignation is necessary for residual waste flows to be successfully managed for use in the bioeconomy	Q4 2019	DCCAE	DAFM, Bioeconomy Implementation Group

Public Sector Leading By Example

Action 145: Develop a strategy to achieve at least a 30% reduction in CO₂eq. emissions by 2030 and a 50% improvement in public sector energy efficiency

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Determine the potential for energy efficiency savings and carbon abatement in each sector and assess resources required to deliver	Q4 2019	SEAI	OPW, All Government Departments, Public Sector bodies and Agencies
Publish annual progress report setting out overall and sectoral achievements against energy efficiency targets	Q4 2019 (and each year)	DCCAE, SEAI	
Prepare report on optimal sectoral approach, having regard to capacity and cost effectiveness	Q2 2020	SEAI	
Seek Government approval and publish new Public Sector Decarbonisation strategy for 2030	Q3 2020	DCCAE	

Action 146 Strengthen incentives and supports to enable managers and Energy Performance Officers to deliver on targets for 2020 and new 2030 targets

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Deliver capacity development workshops for public sector bodies and their EPOs	Q4 2019	DCCAE	SEAI with OPW
Enhance the SEAI Monitoring and Reporting (M&R) system to track actions and measure performance	Q4 2019	SEAI	Public bodies
Require public sector bodies to comply with requirements for Display Energy Certificates including getting SEAI to establish an online register of DECs so compliance can be assessed	Q2 2020	SEAI	Public Sector Bodies
Work with EU Structural Reform Support Service funded consultants to undertake needs and funding assessment to identify solutions for remaining barriers and develop workable delivery models tailored to sectoral needs	Q4 2020	DPER	DCCAE, SEAI, Public Sector Steering Group and individual public bodies
Enhance accountability structures for delivery across the public sector by strengthening Energy Performance Officer and D/ EPO Accountability in line with the proposed accountability measures outlined elsewhere in this Plan	Depends on when the other accountability measures are being introduced	DCCAE	

Action 147: Introduce a Climate Action Mandate for every public body and a Climate Action Charter for each Local Authority through the use of Ministerial policy directions, or equivalent power			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Seek Government approval for public sector mandate requirements for all non-commercial public bodies and for a Climate Action Charter for Local Authorities	Q3 2019	DCCAE	SEAI, DPER
Issue a policy direction or equivalent to all public bodies requiring a public body to adopt mandate and notify Climate Action Delivery Board	Q4 2019	DCCAE	DPER, SEAI
Issue circular to all Local Authorities on adoption of Climate Action Charter	Q4 2019	DCCAE	DPER, SEAI
Develop recommendations for large public bodies to adopt a near zero carbon investment strategy	Q1 2020	DCCAE	DPER
Develop framework for commercial semi-state sector to address climate action objectives	Q1 2020	DCCAE DPER, NewERA	

Action 148: Mandate the inclusion of green criteria in all procurements using public funds, introducing requirements on a phased basis and provide support to procurers as required			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
OGP to issue circular	Q3 2019	OGP	DCCAE, DPER
Upskill programme for procurers and specifiers	Q3 2019	EPA	SEAI, DCCAE, OGP
Prioritise target areas	Q4 2019	DCCAE	OGP
Government Departments to measure and report on GPP on an annual basis	Q4 2020	EPA	SEAI, DCCAE, OGP

Action 149: Enable the deployment of electric vehicles in public sector fleets

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Consider extending the incentive for wheelchair accessible electric SPSVs in the 2019 grant scheme	Q3 2019	DTTAS	NTA
Introduce a new public procurement framework contract for EVs which would allow public bodies to purchase EVs with reduced administrative burden	Q2 2020	OGP	
Assess the suitability of electric/hybrid vehicles as Ministerial vehicles in order to encourage their transition to lower emitting alternatives	Q3 2020	An Garda Siochana	DJustice
Transpose the Clean Vehicles Directive	Q4 2021	DTTAS	

Action 150: Support the development of Local Authority climate action leadership and capacities

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Formulate and deliver technical training to LA staff through CAROs	Q3 2019	CAROs	NUI Maynooth, MaREI UCC, LAs, DCCAE
Formulate and deliver behavioural change training programme to LA staff through IPA and SEAI	Q3 2019	CCMA	IPA, SEAI, CAROs, LAs, DCCAE
Survey Local Authorities to establish baseline of current climate change activities and establish best practices	Q3 2019	CCMA	LAs, DCCAE
Develop a list of priority interventions and identify funding sources and collaboration opportunities with other agencies	Q3 2019	CCMA	LAs, DCCAE
Complete retrofit of the public lighting network comprising 280,000 lights to energy efficient LED Lanterns	Q1 2020	CCMA	LA/RMO, DHPLG, DCCAE, SEAI, HFA
Task an expert Advisory Group with recommending appropriate minimum energy efficiency standards or criteria to apply to outdoor lighting and how such a standard should be applied	Q1 2020	SEAI	DHPLG, DCCAE
Establish pilot project in a number of LAs to engage with local communities and roll out and animate climate change initiatives	Q2 2020	CCMA	LAs, DCCAE

Action 151: Implement an enhanced approach to energy performance and renewable energy capability in school buildings

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Use the recently announced Summer Works Scheme for 2020 onwards to increase the engagement of schools on monitoring energy usage	Q3 2019	DES	
Establish a Working Group to develop an engineering based accounting methodology with regard to the baselines used for annual reporting of Public Sector Energy Efficiency Performance	Q4 2019	SEAI	DES, DCCAE
Extend initial retrofit pathfinder programme on schools out to 2020 and 2021 until NDP financing can facilitate its wider upscaling	Q1 2020	DCCAE	SEAI, DES
Develop detailed roadmap for deep retrofitting and renewable energy installation in school buildings from 2023 onwards	Q1 2020	DES	SEAI
Develop a renewables plan for the third level education sector to promote the installation of renewables and campus district heating systems from 2020	Q2 2020	DES	SEAI, HEA, HEIs
Encouraging schools to have an “energy champion” within their distributed leadership team	Q3 2020	DES	

Action 152: Offset the climate effects of official air travel, through the travel agency contract for central Government departments

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Review existing central Government agency travel contract	Q4 2019	DPER	DCCAE

Action 153: Introduce civil service mileage rates for electric vehicles reflecting the cost incurred by drivers using their own vehicles for work

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q2 2020	DPER	DCCAE

Ireland's International Action on Climate Breakdown

Action 154: Seek to at least double the percentage of ODA spending on climate finance by 2030, and report on our expenditure each year

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Annual reports produced on ODA expenditure on climate	Q3 2019 (for each annual report)	DFAT	DCCAIE, DAFM

Action 155: 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	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Ongoing	DFAT	DCCAIE

Action 156: Include climate as a core theme in all new Irish Aid Country Strategies with the first new strategy to be concluded in 2019

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Provide technical support to Missions to ensure climate action is included in their strategic plans	Q4 2019 – ongoing over the next 5 years	DFAT	

Action 157: Launch a Strategy for Partnerships with Small Island Development States in recognition of the specific challenges presented by climate change to them, accompanied by a package of support and partnerships

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop and launch a new strategy for partnerships with SIDS and advance core support and partnerships	Q3 2019 and ongoing with respect to partnerships	DFAT	

Action 158: Play a leadership role at the September 2019 UN Secretary General Summit on Climate Action, championing Youth Engagement and Public Mobilisation

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Lead preparations for Climate Summit on youth engagement and public mobilisation	Q3 2019	DFAT	DCCAIE

Citizen Engagement, Community Leadership and Just Transition

Action 159: Enhance the effectiveness of climate-related communications, network building and deliberative capacity within and through the NDCA			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Provide support for the development of relevant media content, including in the independent production sector	Ongoing	EPA	
Continue EPA climate lecture series	Ongoing	EPA	
Launch Tidy Towns' 'Climate Action and Air Quality' Award	Q3 2019	DCCAIE	EPA, SEAI, DRCD
Prepare the first annual report on the activities of the NDCA, in consultation with the Advisory Group	Q3 2019	DCCAIE	EPA
Further develop the NDCA communication tools and approaches, including online channels	Q4 2019	DCCAIE	EPA, SEAI
Implement enhanced Green Schools National Climate Change Action and Awareness Programme	Q4 2019	DCCAIE	An Taisce, EPA, SEAI
Complete first cycle of Regional Gatherings	Q4 2019	DCCAIE	EPA, SEAI
Commence trials of local meetings	Q4 2019	EPA	DCCAIE, SEAI
Prepare a plan for the NDCA to connect with and leverage local level youth and community activities	Q4 2019	EPA	SEAI
Assess the role and costs of new Climate Mitigation Centres on Third Level Campus	Q1 2020	DES	DCCAIE, SEAI, HEA
Build a new, localised citizen engagement model through the National Dialogue on Climate Action drawing inspiration from the successful Citizens Assembly model and the report of the Joint Oireachtas Committee	Q1 2020	DCCAIE	NESC, EPA, DRCD, SEAI

Action 160: Assess the economic and employment implications of the transition to a low-carbon economy			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Examine the distributional aspects of an increase in the carbon tax trajectory	Q3 2019	DFin	DCCAE
Examine the distributional aspects of an increase in the carbon tax trajectory on labour types	Q3 2019	DFin	DCCAE
Examine the possibility of using models to identify the impacts of specific policies	Q3 2019	DCCAE	
Model the impacts, both in terms of the economy and in terms of emissions, of removing fossil fuel subsidies	Q4 2019	DCCAE	
Examine the impacts on unemployment of climate policies	Q4 2019	DCCAE	
Develop a transport model to describe transport choices in detail and their interactions with policies	Q4 2019	DTTAS	SEAI
Study of transition to a low carbon economy: impacts for the rural western region	Q4 2019	WDC	DRCD, DCCAE
Commission NESC to develop policy recommendations for consideration by Government for the operation of Transition Teams to manage the impact of economic transition on vulnerable workers and sectors which might include: <ul style="list-style-type: none"> • Review of developmental supports for enterprises and sectors faced with challenges; • Career advice and training guidance to managers and workers; • Accessible training to upskill and retrain workers • Potential financial supports for such a programme 	Q4 2019	DTaoiseach	NESC
Consider need for examination, by Expert Group on Future Skills Needs, of the current and future skills needs of enterprises associated with the transition to green growth and low carbon economy	Q4 2020	EGFSN	DCCAE, DBEI
Undertake an assessment of the implications of climate mitigation options on the socio-economic value of agricultural production and the rural economy	Q4 2020	Teagasc	DAFM

Action 161: Establish a Just Transition Review Group under NESC working group structures to advise the Climate Action Delivery Board

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Define terms of reference and membership in consultation with the Climate Action Delivery Board	Q4 2019	NESC	DTaoiseach, DCCAIE, DPER
Publish Periodic Review and Strategic Advice on the Just Transition	Q4 2020	NESC	DTaoiseach, DCCAIE, DPER

Action 162: Support the work of the Regional Transition Team established in the Midlands Region to address the specific challenges posed by the transition to a low-carbon economy and to propose the additional measures that need to be taken

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Q4 2020	DBEI	DCCAIE, IDA, EI

Action 163: 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	Timeline by Quarter	Lead	Other Key Stakeholders
Examine ways existing programmes available from SEAI and accelerated capital allowances could be used to support a Just Transition	Q3 2019	SEAI	
Identify relevant sources and provide an assessment of the opportunity for funding at EU level across line Departments	Q4 2019	DCCAIE	
Examine the scope to fund high impact climate initiatives through the ERDF	Q4 2019	DPER	DCCAIE
Review DRCD funding programme and award criteria to ensure greater compatibility with climate objectives	Q4 2019	DRCD	
Provide support and guidelines to improve the quality of funding applications	Q4 2019	DPER	

Action 164: Coordinate and support the development of tools and supports at regional and enterprise level which address just transition objectives

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Include a Just Transition standing item on the agenda of each of the nine regional areas	Q3 2019 (and Ongoing)	Regional Steering Committees	DBEI
Develop a template for company Climate Change Action Plans	Q4 2019	DCCAE	CAROs, SEAI
Develop an online checklist for companies to measure their sustainability and to provide an authorised sustainability quality mark	Q4 2019	Local Authorities	BITC, SEAI

Action 165: Extend flagship low-carbon projects to other towns and villages

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Each local authority will identify and develop plans for one "Decarbonising Zone"	Q4 2019	DHPLG	SEAI, LAs
Develop a category of low carbon town projects for future calls under the Climate Action Fund	Q3 2020	DCCAE	
Develop Portlaoise as a low carbon town using suite of initiatives and a range of technologies deployed to serve as demonstrator for other towns	Q4 2020	Laois CC	SEAI, CARO, Downtown Portlaoise, ESB Networks, Midland Energy Agency, TII, DCCAE
Carry out a mid-project review of the Portlaoise project and identify practical actions for other towns	Q4 2020	DHPLG	

Action 166: Prioritise the development of supply chain opportunities through appropriately designed and complementary energy and enterprise policies and measures of priority

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other 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	Q1 2020	SEAI	
Ensure the most up to date information on market activity is being utilised and no opportunities are being missed, e.g. newer areas such as craft skills related to NZEB and Deep Retrofit and complex project management skills	Q1 2020	SEAI	

Action 167: Expand the SEAI Sustainable Energy Communities Programme from 256 members to 500 by 2025, and 1,500 by 2030			
Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Develop proposal to pilot community energy officer function in 4 Local Authorities (One role of the Energy Officers will be to support bootcamp activity in their area with a view to working up projects and identifying funding opportunities)	Q4 2019	SEAI	LGMA, DCCAIE, EPA
Establish a National (and Regional) Sustainable Energy Communities Forum and National Steering Group with membership from the Network, SEAI, DCCAIE 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	Q4 2019	DCCAIE	SEAI, LGMA,
Develop a proposal to use Citizens Information Centre network to offer climate information to citizens and communities	Q1 2020	SEAI	Citizens' Information Board, DCCAIE, EPA
Develop a proposal to establish community investment portal to streamline application process for public funding	Q2 2020	SEAI	DCCAIE, EPA, DEASP, DCRD
Once the pilot is proven make this model available to all Local Authorities	Q4 2020	DCCAIE	SEAI, LGMA, EPA
Research and Pilot 3 new mechanisms and models for community energy action at local level which includes ideas received from the SEAI Community Network, this includes the potential for a Community Renewable Energy Pilot scheme to assist Communities to invest in renewable energy projects and/or opening new streams of community energy funding	Q4 2020	DCCAIE	SEAI

Action 168: Provide improved training and support initiatives for community and voluntary stakeholders to support community, local and national low-carbon development, incorporating community outreach elements

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Continued support for strengthening the role and input of the Environmental Pillar in Public Participation Networks	Ongoing	DRCD	DCCAE
Coordinate the provision of training and capacity building in relation to climate change to local development and community development organisations	Q4 2019	DRCD	DCCAE
Design climate plan action module for inclusion at national fora for Local Community Development Committees and Public Participation Networks	Q4 2019	DRCD	Local Authorities, SEAI, DCCAE
Pilot and develop models of good practice on climate change adaptation and mitigation at a community level	2020	DRCD	Local Authorities, SEAI, DCCAE

Action 169: Create a framework in which social enterprises can be formed and grow

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Finalise Ireland's first National Policy on Social Enterprise	Q3 2019	DRCD	

Action 170: Support, through the education system, the required initiatives in the Just Transition through existing and new strategies being developed, and through ongoing collaboration with relevant Government Departments and Agencies

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Implement 'Skills to Advance' 'Upskilling Pathways' and 'Explore Programme'	Ongoing	DES	Education and Training providers, Employers
Develop Springboard+ 2019 training in emerging new technologies and use flexible provision to suit those in employment	Ongoing	DES	Education and Training providers, SEAI
Make employers aware of opportunities to upskill, as they arise	Ongoing	DBEI	DEASP, DES, ETBs
Engage with Higher Education Institutions to promote adaptation of courses, in consultation with stakeholders as appropriate, so that graduates have the necessary training and skills on the impacts of climate change	Ongoing	DES	
Double the number of participants on the EXPLORE programme over the 2018 figure	Q4 2019	ETB	Regional Skills Forum
Formalise links between education system and National Dialogue on Climate Action, building on Green Schools Programme	Q4 2019	DCCAE	DES, An Taisce, EPA, SEAI
Development of new short course on climate action for Junior Cycle	Q3 2020	SEAI	NCCA, EPA

Action 171: Enhance the career advice service provided through the Public Employment Service to include offering support for those impacted by technological and other changes

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
ETBs to address training challenges	Q4 2019	DEASP	DES, ETBs, SOLAS
Target potential returners to the workforce as part of its communications campaign to advise them of case officer services which are available to help them progress to employment	Q4 2019	DEASP	

Action 172: Assist local enterprises, through the Regional Skills Forum, to identify their skills' needs through a variety of audit tools to ensure that the Region has effective skills capacity to support the Just Transition

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Encourage enterprises to engage with Regional Skills Fora and other agencies for support in identifying their skills needs	Q1-Q4 2019	RSF	EI, IDA, LEOs, IOTs, DES
Once skill needs have been identified, Regional Skills Fora will link companies with the education and training providers best suited to responding to identified skills need	Q1-Q4 2019	RSF	Education and Training providers, Employers, DES
In partnership with the Regional Skills Forum promote the skills linking service to local enterprises	Q4 2019	Local Authorities	
Support all actions in the Just Transition Plan where linkages to Education and Training Providers are required	Q4 2019	RSF	Education and Training providers, DES

Action 173: Review ways to improve how current energy poverty schemes target those most in need

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Review ways to improve how current energy poverty schemes target those most in need	Q4 2019	DCCAE	SEAI, DEASP
Analyse means of increasing depth of retrofits delivered	Q4 2019	DCCAE	SEAI
Examine options to increase funding streams for current energy poverty schemes	Q4 2019	DCCAE	SEAI
Identify means of increasing efficiencies, reducing costs and increasing capacity and skills in delivery of current energy poverty schemes	Q2 2020	DCCAE	SEAI

Action 174: Review infrastructure sizing and design standards to reflect the demand of domestic scale low-carbon technologies

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Review urban and rural domestic connection design standards	Q3 2019	ESB Networks	DCCAE
Approve urban and rural domestic connection design standards (updated)	Q3 2019	CRU	DCCAE
Introduce new urban and rural domestic connection design standards	Q3 2019	ESB Networks	DCCAE

Action 175: Promote greater awareness of, and access to, network services available in the case of severe weather events by ESB Networks

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Deliver targeted promotion via social media to the friends and family of the elderly and those with medical needs, advising how they can support their elderly family or neighbours in case they lose power	Q3 2019	ESB Networks	
Engage with the Irish Deaf Society, to improve their stakeholders' access to ESB Networks services	Q3 2019	ESB Networks	
Finalise customer research and identify specific nature of services	Q4 2019	ESB Networks	
Support Age Action in communicating with their members about how to register (via their supplier) as vulnerable customers, and about how to prepare in advance of storms	Q4 2019	ESB Networks	
Promote relevant products and services as they reach their project milestones works	Subject to Outcome of research	CRU	

Action 176: Engage with all utility providers to improve the resilience of services in the face of severe weather events

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Ensure that each of the main utilities review infrastructure sizing requirements associated with transition to low carbon	Q3 2019	DCCAE	
Identify, communicate and promote services which help mitigate the impacts of severe weather events	Q4 2019	DCCAE	

Action 177: Review challenges associated with the availability of property (home and business) insurance, and possible responses to this issue

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Engage with relevant stakeholders (including OPW-Insurance Ireland Flood Insurance MoU WG) to identify key issues	Q4 2019	DFin	Central Bank
Carry out international comparisons	Q4 2019	DFin	Central Bank
Outline of possible response/future actions	Q4 2019	DFin	Central Bank

Action 178: Science Foundation Ireland, with engagement of the Department of Communications, Climate Action and Environment, will create national awareness amongst the Irish public of key actions that need to be taken at an individual and national level to ensure Climate Action adaptation and mitigation

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Development and delivery of Regional Festivals Funding programme	Q3 2019	SFI	DBEI
Development and delivery of Science Week 2019	Q4 2019	SFI	DBEI

Action 179: Undertake public consultation to inform future Rural Development Strategy

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Undertake public consultation process on new rural policy	Q3-Q4 2019	DRCD	

Action 180: Ensure that the school curriculum is reviewed against climate action on an ongoing basis

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
As per action	Ongoing	DES	DCCAIE

Adaptation

Action 181: Build sectoral resilience to the impacts of climate change through delivery of sectoral plans as required under the NAF

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Preparation of sectoral plans required under NAF and submission to Government for approval	Q3 2019	DCCAIE	DAFM, DTTAS, DCHG, OPW, DHPLG, Irish Water, DHealth
Implementation of sectoral adaptation plans prepared under NAF	Ongoing from Q3 2019	DCCAIE	DAFM, DTTAS, DCHG, OPW, DHPLG, Irish Water, DHealth

Action 182: Build local/regional resilience to the impacts of climate change through delivery of Local Authority Adaptation Strategies as required under the NAF

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Development of local adaptation strategies by each local authority in Ireland	Q3 2019	Local Authorities	DCCAIE, CAROs
Implementation of Local Authority Adaptation Strategies prepared under National Adaptation Framework	Ongoing from Q3 2019	CAROs	DCCAIE, DAFM, DTTAS, DCHG, OPW, DHPLG, Irish Water, DHealth
Ensure implementation of 2019 CARO work programme and develop 2020 work programme	Q4 2019	DCCAIE	CAROs

Action 183: Put in place arrangements to ensure Climate Ireland is developed to its full potential as an operational support for climate adaptation and climate action in Ireland

Steps Necessary for Delivery	Timeline by Quarter	Lead	Other Key Stakeholders
Prepare business case for implementation	Q3 2019	DCCAIE	EPA, OPW, Met Éireann, CAROs
Secure Government Approval for resources and proposal	Q3 2019	DCCAIE	

Department of Communications,
Climate Action & Environment



Rialtas na hÉireann
Government of Ireland