



Rialtas na hÉireann
Government of Ireland

Innovation Fund Workshop

Welcome and Opening Remarks
Errol Close, Environment Advisory Unit

10 December 2019

Overview



9.30 Opening Remarks, Errol Close, DCCAE

9.50 Innovation Fund presentation, Maria Velkova, DG Clima

10.20 Project Overview, Saipam

10.35 Project Overview, Ervia

10.50 Tea/coffee

11.15 Discussion on development of the Innovation Fund

Lunch



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Objective of today's workshop

Innovation Fund



- **Raise awareness of the fund and the next steps**
- **Highlight the NCP resource in DCCAE**
(innovationfund@dccae.gov.ie)
- **Offer an opportunity to engage with the Innovation Fund Team at DG Clima to understand the development process**
- **Opportunity to showcase potential Irish projects**

Innovation Fund – Development of first call in process



Discussion session allows for engagement on the key aspects of the fund and the call design.

Questions to consider for your project

- You project and key elements?
- The products involved, the Technology Readiness Level, the innovative elements?
- Capital and operational expenditure profile over a 10 year period related to the innovative project?
- Level of certainty over envisaged costs and benefits? What are the key variables influencing them?
- What is the financing gap and how do you expect to address it?
- What is the GHG emission reduction potential of the project in comparison to a conventional project of the same scale?
- What is the size of the potential market of the products (final, intermediate and by-products)?
- What is the expected project development timeline? Has the project already done pre-/feasibility study, FEED study? What steps need to be taken/conditions met before Final Investment Decision?
- Is the project dependent on other projects, development of infrastructure or adoption/amendment of certain EU or national regulation?



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Opening Remarks

Context



IPCC Special Report

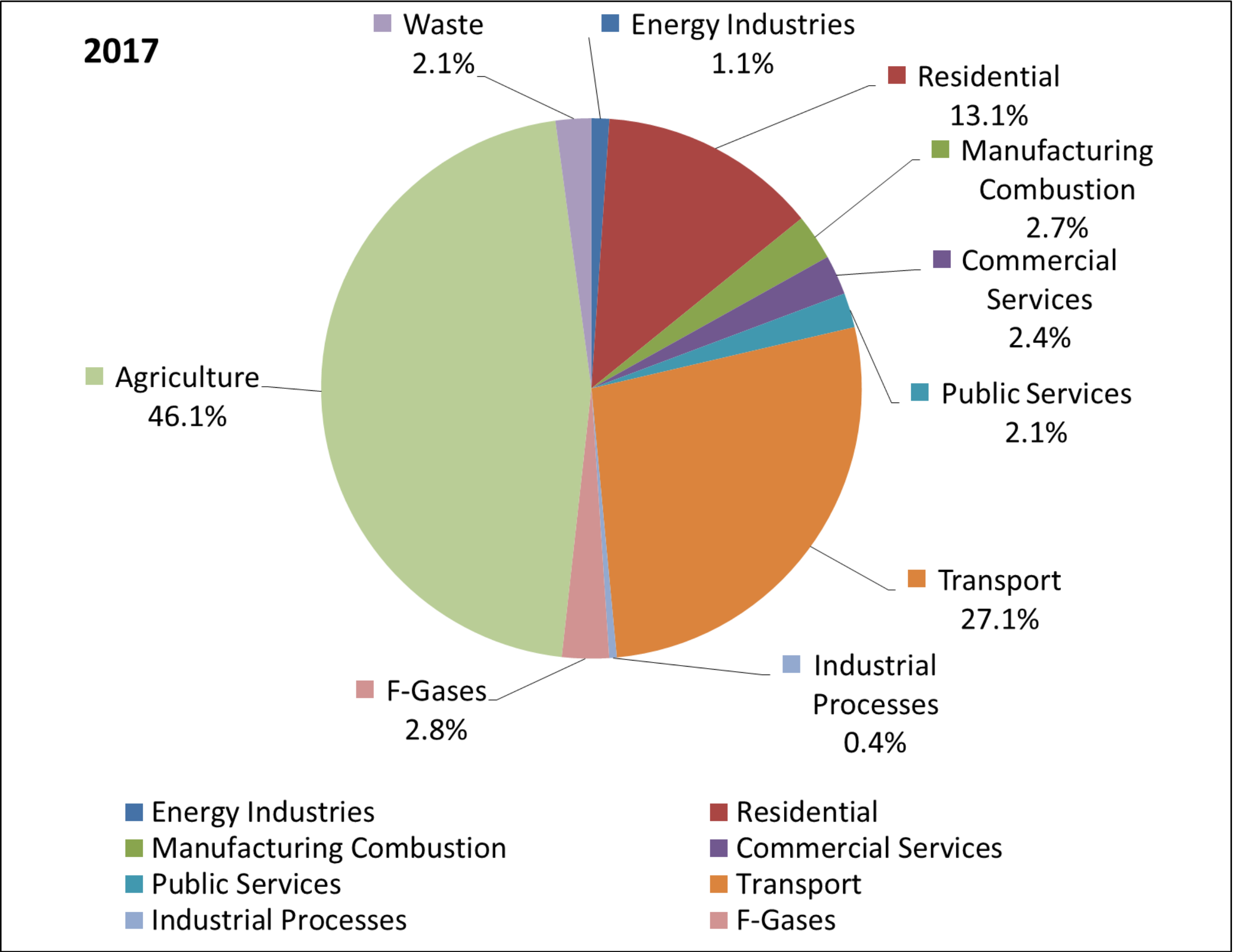
Citizens' Assembly

JOC on Climate Action

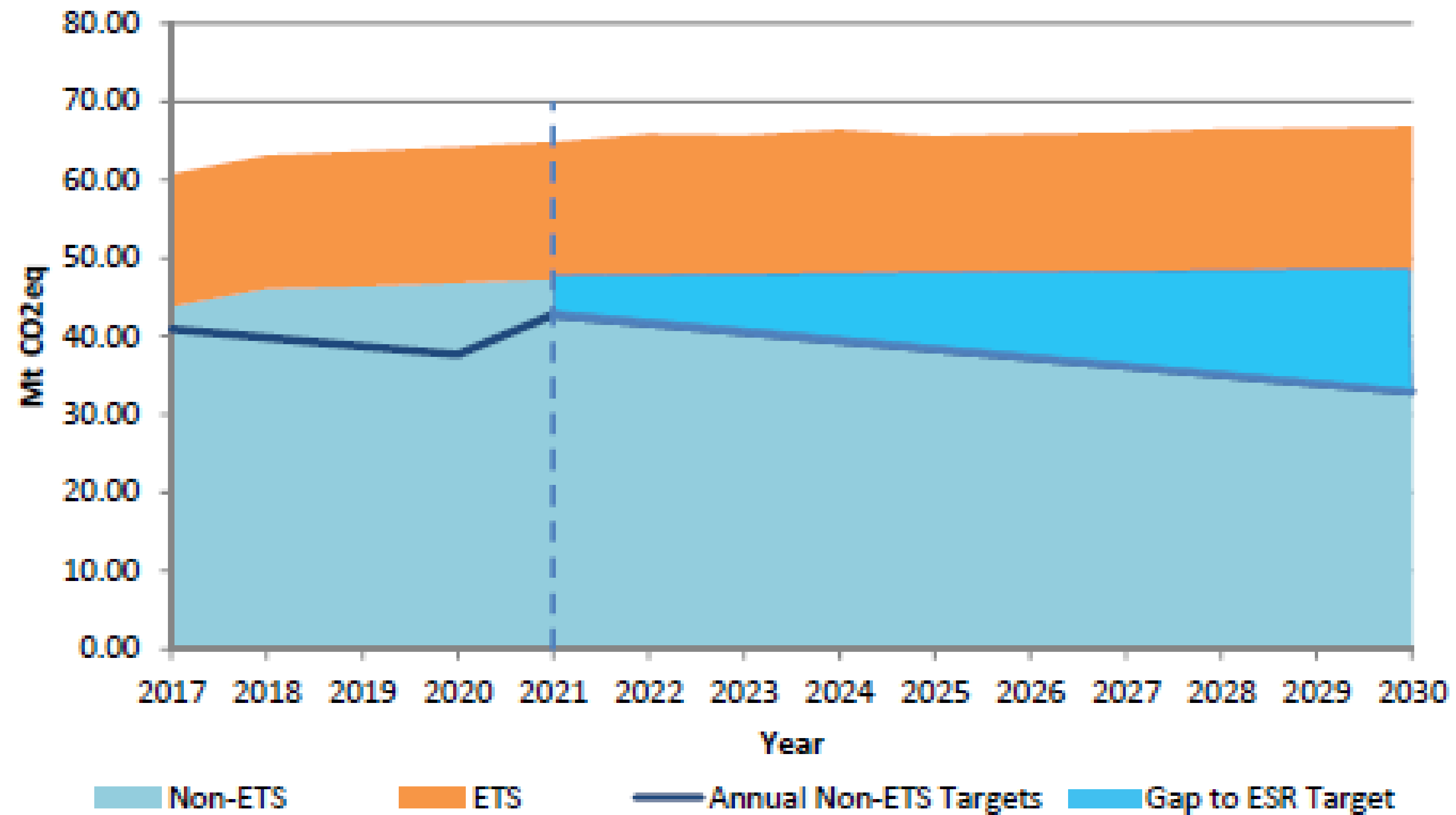
Declaration of Climate Emergency

Performance against Targets

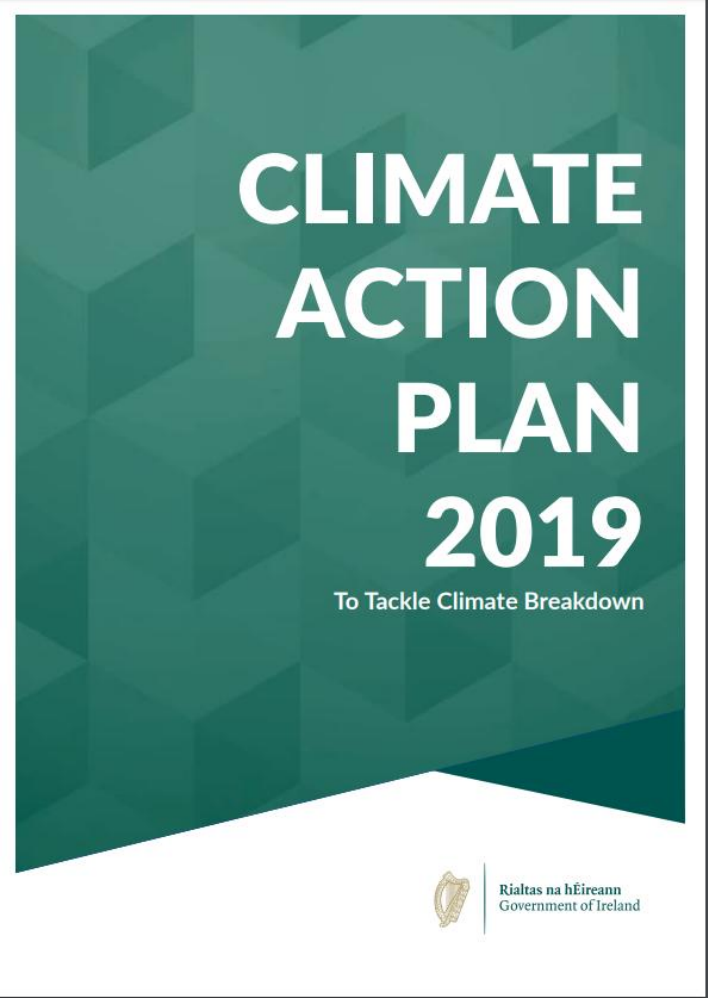
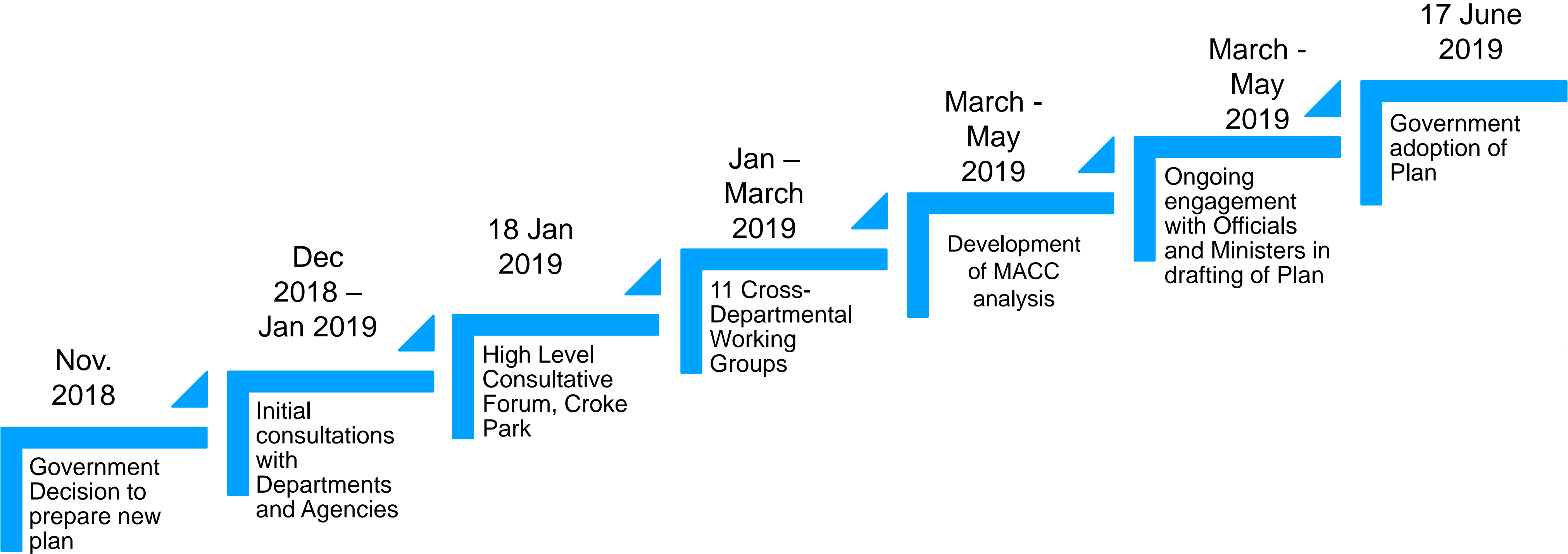
Breakdown of non-ETS Sector



Gap to Target



Development of Climate Action Plan



Key Features of Plan



2030 targets for carbon emissions reduction, and put us on a **trajectory to net zero by 2050**

183 actions with detailed steps to deliver and clear timelines and owners

Structures for **strong governance** and oversight

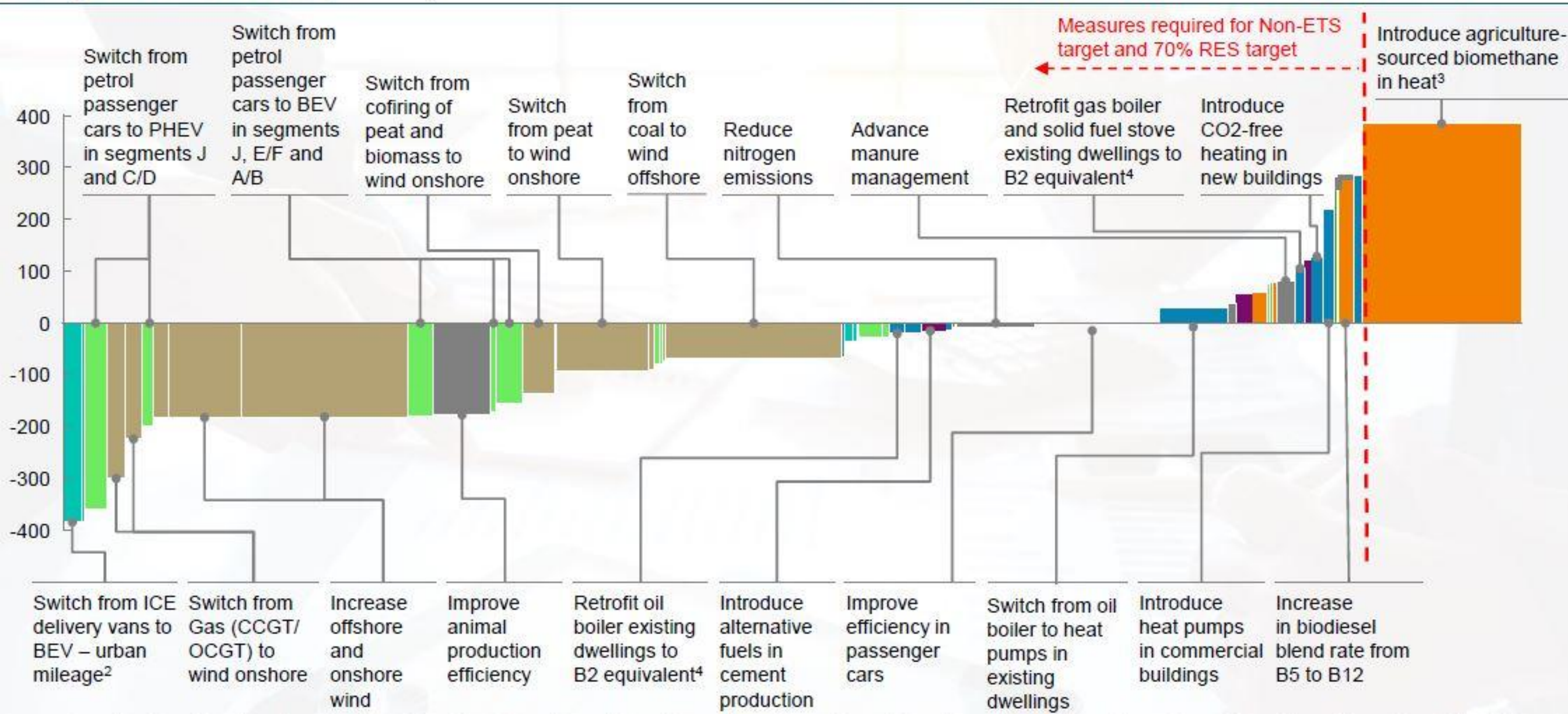
Citizen involvement – Citizens' Assembly, JOC on Climate Action, Stakeholder forum

A just transition review group

Marginal Abatement Cost Curve



Average abatement cost to 2030¹, EUR/tCO₂



Key Measures to Meet Targets



50-55%

Phase-out of coal- and peat-fired electricity generation
Increased onshore wind capacity
Deploy significant offshore wind capacity



45-50%

Switch from ICE diesel and petrol cars and delivery vans to BEVs
Switch from ICE buses and trucks to BEVs, CNGs, and PHEVs



40-45%

Retrofit homes with insulation
Replace oil boilers with electric heating sources (e.g. heat pumps)



10-15%

Increase use of alternative fuels (e.g. waste) for cement production
Switch from oil to biomass and electricity in food industry



10-15%

Deliver measures identified in Teagasc MACC, including:

- Advanced manure management
- Reduce nitrogen emissions
- Animal production efficiency

Electricity



Increase electricity generated from renewable sources to 70%

Streamline consenting and connection arrangements

Phase-out of coal- and peat-fired electricity generation

Community participation in renewable generation

Support scheme for micro-generation

Funding supports for new technologies on and off shore



Buildings



Design policy to upgrade 500,000 homes to BER B2

Install 600,000 renewable energy heating sources

Stricter requirements for buildings

New supply chain & model for retrofits - grouped together

Develop roadmap for delivering District Heating potential



Transport



Accelerate penetration of EVs into sales of cars and vans on the route to 100% by 2030

950,000 EVs by 2030, with associated charging network

Make growth less transport intensive through better planning, and modal shift

Renewable Biofuel content

- 10% in petrol
- 12% in diesel

Decarbonising public transport

- Implement major projects
- Conversion of public fleets

Agriculture



Deliver GHG abatement through adoption of improvements in farming practice



Reducing agricultural emissions

better management of grasslands, tillage land and non-agricultural wetlands

Fossil fuel displacement

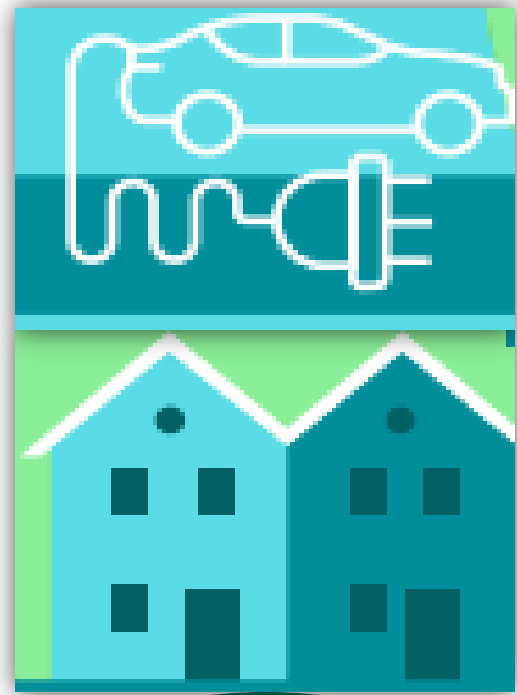
Carbon sequestration

at least 40,000 ha per annum of reduced management intensity of grasslands on drained organic soils

average of 8,000 ha per annum of newly planted forest

Support diversification within Agriculture and land use to develop sustainable and circular value chains and business models for lower carbon intensity farming

Enterprise and Services



**EXEED –
Drive
efficiencies in
at least 80
companies**

Increasing energy efficiency, replacement of fossil fuels, careful management of materials and waste

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

Expand the EXEED programme to influence and deliver new best practices in energy efficient design

Plan for the delivery of quality employment and enterprise in the new areas of opportunity being opened up

Department of Business, Enterprise and Innovation - Climate Action



In the Climate Action Plan Enterprise has GHG reduction targets of 10-15% by 2030. It will also contribute to transport (45-50% reduction) and built environment (40-45% reduction) targets.

- The Enterprise agencies (EI, IDA, SFI, and NSAI) also have measures under the Plan and offer supports for enterprise in the area of Climate Action.

Among other actions - DBEI are leading on the conversion of the cement and food and drinks sectors to alternative fuels and have convened initial working groups to begin understanding barriers to conversion.

DBEI are working with SEAI to identify other potential carbon abatement measures in enterprise with the aim of developing tailored supports where possible.

- DBEI also has the Disruptive Technologies Innovation Fund (DTIF) – €500m fund under Project Ireland 2040:
 - *The DTIF falls under pillar 1 of the Future Jobs initiative which looks at embracing innovation and technological change.*
 - *Projects from 6 areas are eligible for funding from the DTIF – one of which is “Energy, Climate Action and Sustainability”.*

Waste and Circular Economy



Prevention

Develop coherent Reduction Strategies for Plastics, Food Waste, and Resource Use

Recycling

Increase level and quality of recycling with less contamination by recycling, including elimination of non-recyclable plastic

Diversion

Reduce diversion of municipal waste to landfill to 10% by 2035, with sharp reductions in plastics and compostables entering landfill

Recycle:

- 65% of municipal waste by 2035
- 70% of packaging waste by 2030
- 55% of plastic packaging waste by 2030

Provide for 90% collection of plastic drinks containers by 2029

Reduce Food Waste by 50% by 2030

Citizens and Communities



Engagement - National Dialogue on Climate Action

- Regional gatherings
- Series of 'Town Halls'
- Climate Lecture Series delivered by the EPA
- EPA funding work to develop toolkits to help deepen public engagement
- Climate Action and Awareness Programme delivered by Green Schools
- Tidy Towns Air Quality and Climate Award

Opportunities

- Future Jobs Ireland 2019 - Regional Transition Teams
- Circular and bioeconomy – first bioeconomy implementation group progress report, Q3 2019

Fairness - Just Transition Review Group

- Collaborate and engage with a wide range of stakeholders
- Interact closely with the NDCA and SDG Stakeholder Forum
- Publish a periodic review and strategic advice on just transition

Governance



Oversight

Climate Action (Amendment) Bill

- New Climate Action Council
- Carbon Budgets
- Target range for each sector
- 2050 target
- 15 Year Long-term Strategy to 2050
- Climate Action Plan annually

Joint Oireachtas Committee on Climate Action

Carbon Proofing Government policy

Monitoring and Reporting

Climate Action Delivery Board

- reporting to Cabinet Committee and Cabinet
- quarterly reports published

Just Transition Monitoring and Review Group

- reporting to Climate Action Delivery Board

DCCAE – Internal Delivery Board

- Monthly updates to Secretary General

Key Budget 2020 announcements



Taxation Measures

- €6 increase in carbon tax
- NOx basis for VRT on new and imported petrol and diesel cars
- Changes in Electricity Tax

Ring-fencing of additional carbon tax revenues:

Protecting the Vulnerable

- Increase in winter fuel allowance
- Energy efficiency housing upgrades

Just Transition

- Aggregated Housing Upgrade Scheme for Midlands region
- Peatlands rehabilitation
- Just Transition Fund

Investments in low carbon transition

- Greenways/Urban Cycling
- EV purchase grants and investments in charging infrastructure
- Green Agricultural Pilots

Green Climate Fund



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Any questions?

innovationfund@dccae.gov.ie