Rialtas na hÉireann
Government of Ireland

National Hydrogen Programme: Implementation Plan

Section 1 – Introduction and Context

2nd October 2025

Introduction

Introduction

The European Union, under the European Green Deal, commits to being climate neutral by 2050. Policies such as the European Hydrogen Strategy and the Energy System Integration Strategy support these decarbonisation efforts with specific mention to green hydrogen. Moreover, in 2022 in response to the global energy market disruption caused by Russia's invasion of Ukraine, the REPowerEU plan was announced, which includes the commitment to further developing an EU hydrogen market.

At a national level, Ireland strives to meets its own climate targets and remains committed to reducing greenhouse gas emissions (GHG) by 51% against 2018 levels by 2030 and to becoming carbon neutral by 2050. The latest Climate Action Plan (2024) foresees green hydrogen as an enabler of decarbonisation for Ireland as outlined in the National Hydrogen Strategy. In addition, the government is aiming to support green hydrogen production through surplus generation from and as a route to market for up to 2GW of offshore wind energy to be in development by 2030.

For Ireland to maximise the ultimate role of hydrogen in the zero-carbon economy, it is crucial to develop and implement appropriate safety and regulatory frameworks, plan integrated infrastructure and systems, as well as support the technology and funding to commercialise hydrogen as a competitive and attractive market in Ireland. Achieving this will require collaboration among a range of stakeholders from government and industry to develop innovative solutions that support Ireland in meeting both EU and national targets.

The Implementation Plan, this report, was developed through several knowledge sharing sessions conducted with critical stakeholders to outline the current state of hydrogen development in Ireland and understand the milestones and objectives that must be met to develop the nascent technology into a robust market for Ireland.

National Hydrogen Programme Taskforce

The National Hydrogen Strategy (published July 2023) set the mandate and basis for the delivery of a robust market for hydrogen energy in Ireland.

The actions outlined in the National Hydrogen Strategy have been assessed and adapted into WGs around a cohesive structure to facilitate milestone delivery.

The objective of the NHP Taskforce is the following:

1. To develop the necessary legislation, regulatory and safety frameworks which could enable early hydrogen projects to progress.
2. To enhance knowledge, explore opportunities and provide further clarity on the role that hydrogen is likely to play in a future decarbonised integrated net zero energy system.
3. To put in place the necessary policies and frameworks to deliver:
    a) An early hydrogen innovation fund by 2027.
    b) Hydrogen end-uses in transport by 2030 in line with EU RED III requirements.
    c) Potential routes to market for up to 2 GW hydrogen production from offshore wind, to be in development by 2030.
4. To ensure a coordinated cross-departmental approach to the development of the hydrogen sector in Ireland.

Suggested objectives and related timelines are outlined in Section 4 of this Implementation Plan.

Rialtas na hÉireann
Government of Ireland

Implementation Plan

Section 2 – Working Group Summary

Taskforce and Programme – Working Group Objectives

This Taskforce has three Working Groups: Safety and Regulations; Infrastructure and Systems; and Markets and Commercialisation. These Working Groups and their objectives are set out below.

Safety and Regulations	**Hydrogen Regulation** To identify all legislative and regulatory barriers to hydrogen policy implementation (national and EU regulations and directives) and to ensure that all changes to legislation and regulations required to give effect to (including storage) are made, noting that enactment of primary legislation and the making of regulations are functions of the Oireachtas and the relevant Minister, respectively.	**Safety and Standards** Foster the sustainable growth of renewable hydrogen and offshore wind in Ireland through ensuring an early focus on safety, standards, skills development, and public awareness and acceptance.
Infrastructure and Systems	**Hydrogen Infrastructure** To ensure that the appropriate hydrogen transport and storage capacity is in place to support green hydrogen production and a fully decarbonised and secure energy system in line with national targets.	**Integrated Energy Systems and Research** Ensure that an integrated approach which reflects the most up-to-date understanding of the technical and economic potential of hydrogen is reflected in national energy planning, and that a coordinated approach is taken to furthering research in the field of green hydrogen.
Markets and Commercialisation	**Funding** Launch a dedicated hydrogen fund to co-finance innovative hydrogen projects that demonstrate the long-term potential of green hydrogen in Ireland and ultimately build on this to develop future funding models in line with the long-term ambitions set out in national policy.	**Transport End-Uses** Explore potential uses of hydrogen and its derivatives in the transport sector, in line with wider transport policy and ensure Ireland fulfils its end-use obligations set out in various EU directives and regulations.
	Export and Industrial Opportunities Explore Ireland’s potential for hydrogen to create economic opportunities, domestic or international, and advance Ireland's position in the EU's hydrogen economy through cross-border collaboration and strategic partnerships.	**Power, Industry and Other** Investigate the potential for Ireland's indigenous industries to integrate hydrogen into their operations as part of the country's move towards a sustainable energy future, with a particular focus on power and heavy industry sectors.

Rialtas na hÉireann
Government of Ireland

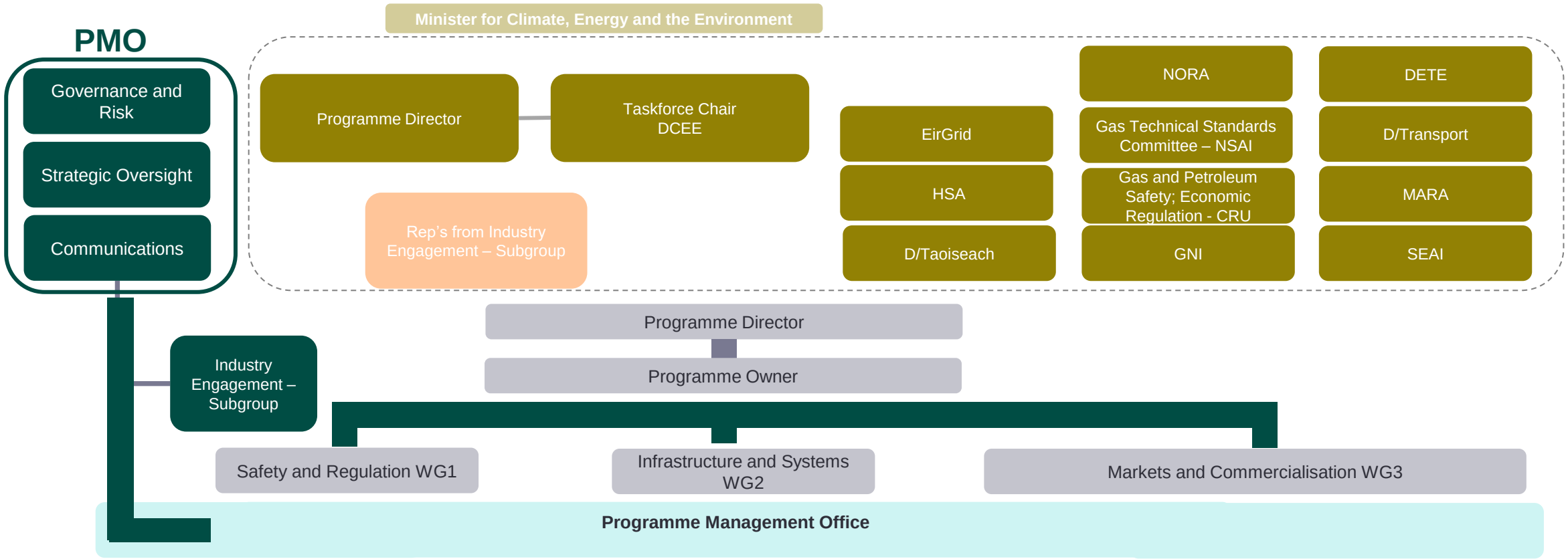
Implementation Plan

Section 3 – Governance Framework

PMO Structure - NHP Taskforce

Proposed Taskforce Members	
Organisation	**Role**
Department for Climate, Energy and the Environment (DCEE) - Renewable Electricity Hydrogen & Grid	Task Force Chair
DCEE - Security of Supply Markets & Energy Policy	Task Force Member
Department of Enterprise, Tourism and Employment (DETE) - Safety, Health and Chemical Policy Unit	Task Force Member
Department of the Taoiseach	Task Force Member
Department of Transport	Task Force Member
National Standards Authority Ireland (NSAI)	Task Force Member
Commission for Regulation and Utilities (CRU) – Safety	Task Force Member
CRU – Economics and Regulation	Task Force Member
Gas Networks Ireland (GNI)	Task Force Member
Maritime Area Regulatory Authority (MARA)	Task Force Member
Sustainable Energy Authority of Ireland (SEAI)	Task Force Member
DCEE	Programme Director
DCEE	Programme Owner
National Oil Reserves Agency (NORA)	Task Force Member
Industry	Task Force Observer

PMO Structure - NHP Taskforce



***Taskforce membership may be expanded in the future.**

Taskforce members | PMO Manager | Task Force Observer | WGs

PMO Structure - NHP Taskforce

Roles and Responsibilities	
Role	**Responsibility**
Taskforce Member	• Provides strategic oversight to the Programme. • Escalation point for risks / issues that cannot be resolved within the Programme. • Approval of Annual Work Programmes and key Programme deliverables. • Provide support for the Programme office in terms of strategic decisions around resourcing and budget.
Taskforce Chair	• Chair Taskforce meetings. • Work with the Programme Owner and Programme Director to ensure coordination and management of the Taskforce. • Ensure strategic buy-in and support from Taskforce members.
Programme Director	• Ultimate accountability for ensuring the Programme successfully delivers on its intended value and alignment with the PMO's strategic objectives. • Leverages capacity as connector to align stakeholders and endorse changes. Empowers the Chair to achieve this. • Supports the Chair in securing resources required to deliver objectives. • Ultimate escalation point for strategic issues/risks for the Programme.
Programme Owner	• Authorising the mandate for the Taskforce PMO to deliver on objectives and milestones. • Approving the Programme's progress against the overall KPIs and objectives. • Demonstrating visible support to the Programme and its management team. • Receive a status report from WG Leads periodically with status updates of WGs. • Resolving cross-WG issues and strategic issues with senior stakeholders.
Programme Management Office (PMO)	• Support the Programme Owner in managing the day-to-day governance of the Programme. • Maintain and update reporting templates and registers, as well as the integrated programme plan. • Engage with and support WG Leads in their role as well as coordinate and support the preparations for Taskforce meetings. • Manage day-to-day communication within the Programme and ensure risks, issues and actions are managed and delivered.
Industry Engagement Subgroup	• Meets twice a year where industry delegates are invited to receive an update on the Programme Status and has an opportunity to present on key issues, and provide feedback to the Taskforce on future strategic direction. • Subgroup can provide advice or commission independent analysis to support Taskforce decision making.
WG Lead	• Accountable for the delivery of milestones and objectives within the WG. • Own WG level risks, issues, actions and driving solutions. • Highlight and escalate decisions, risks and issues that cannot be resolved within the WG to the Programme Owner as required. • Work with other WG Leads to drive alignment of solutions to ensure consistency across the Programme. • Present WG status (using checkpoint report), issues, risks, decisions and change requests to Pillar and Function Leads and Delivery Taskforce. • Lead the WG level meetings, collect and collate status reports from WG members, ensure meeting facilitation, including minutes and actions.
WG Members	• Facilitate WG planning, taking responsibility for activities allocated to your agency by the WG Lead. • Work with Chair to capture, manage and monitor WG (inter)dependencies. • Provide input to checkpoint/ status reports, risk register, stakeholder management plan etc. when requested by the WG Lead.

NHP Taskforce | Yearly Model Plan | Illustrative Schedule

Year		2025								2026											
Month	**Summary**	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Taskforce	Ea. 3 months. (4x/yr) WGs report on progress, risks, and opportunities. TF to collate progress and examine where support is needed to advance the hydrogen agenda.					★						★						★			
Working Groups	WGs should meet individually to share updates and track progress on individual workstreams. The frequency of these can be decided at WG level (assumed ~6x/year typically)		★		★		★		★		★		★		★		★		★		★
Industry Engagement Subgroup	Twice a year, industry associations and key stakeholders outside of the Programme will be invited in to review the work programme and provide feedback on the strategic direction of the Programme and its deliverables.				★						★							★			
Annual Planning Cycle	The PMO along with WG Leads will commence strategic planning for the next Annual Work Programme and update the TF accordingly							★		★						★		★			

Rialtas na hÉireann
Government of Ireland

Implementation Plan

Section 4 – Taskforce Implementation Plan

Taskforce Implementation Plan

NHP Taskforce Implementation Plan

This **NHP Taskforce Implementation Plan** aims to support the achievement of the actions and objectives of the **National Hydrogen Strategy**.

The Implementation Plan was developed by:

- Capturing all the actions from the National Hydrogen Strategy and grouping them into WGs with distinct objectives.There are a total of 3 WGs.
- The Implementation Plan is split across several key WGs and functions where distinct owners, objectives and stakeholders are identified for each WG.
- Additionally, a high-level summary of each WG's team, interdependencies and other relevant details were identified alongside a timeline of sub-actions customised to deliver the objectives of the WG.

This Implementation Plan is intended to be dynamic and adapt to changes in legislation, policy and the energy market, among other factors. It is expected that additional objectives and milestones will be identified and added as the Programme progresses, and as new information is acquired.

The following slides in this section outlines the timeline set out in each WG. The Milestone categorisation is as follows:

★ The star represents a milestone for the WG. This star either represents work that was completed in 2024 or work that is crucial to be completed within the determined timeframe

A green timeline represents an important action that is achievable within the WG and not dependant on prior actions. Green timelines may subject to change depending on the resources of the working group.

An orange timeline represents a dependent sub-action in the WG. The dependency may be because there is a prerequisite sub-action to complete, or because the sub-action timeline is modifiable.

A black arrow represents a timeline with no end date. This is because some sub-actions will require on going participation and attention due to the nature of the sub-action. Therefore the arrow will indicate that a timeline has no fixed end.

Safety and Regulation (WG1) - Implementation Plan

Scope of WG1

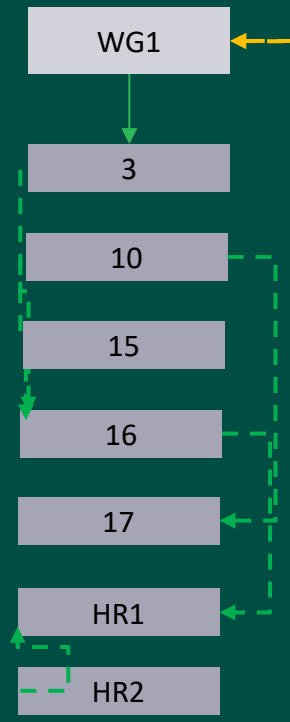
To identify all legislative and regulatory opportunities and barriers to hydrogen policy implementation (i.e. national and EU regulations and directives) and to ensure that all changes to legislation and regulations required to give effect to a hydrogen market (including storage) are made, noting that enactment of primary legislation and the making of regulations are functions of the Oireachtas and the relevant Minister, respectively.

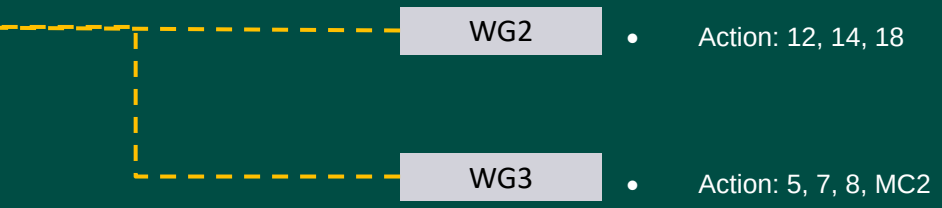
Foster the sustainable growth of renewable hydrogen and offshore wind in Ireland through ensuring an early focus on safety, standards, skills development, and public awareness and acceptance.

Interdependencies

- All other WGs would require the successful integration of EU regulations and development of Irish hydrogen policy to realise a hydrogen sector in Ireland.
- The diagram is a high-level indication of the interdependencies within this working group and across the other WGs. The follow-on actions from the Green Hydrogen Corridor Study Phase I, including fuelling stations and the Shared Island Fund, as well as Phase 1 safety regulations and Phase 2 economic feasibility, have been deemed sufficient with no additional specific actions required at this point;
- Hydrogen safety is paramount to the successful progression of the sector. There are particular dependencies with WG2, however all WGs would benefit from a robust safety regime in place.

WG1 Actions





- Action: 12, 14, 18
- Action: 5, 7, 8, MC2

Key for interdependencies:

- Within WG
- Across WGs

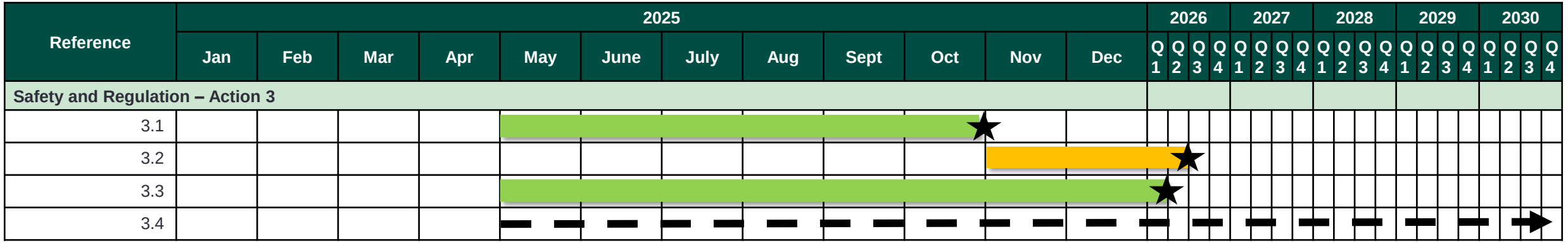
Members
DCEE
MARA
NSAI
DETE
CRU
GSRO
D/Transport
GNI

HR stands Hydrogen Regulation: HR1 and HR2 actions were added and assigned labels for identification

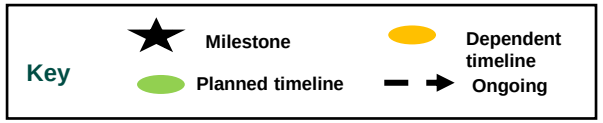
Safety and Regulation - Objectives and Milestones

Key: Milestone; Planned timeline; Dependent timeline; Ongoing

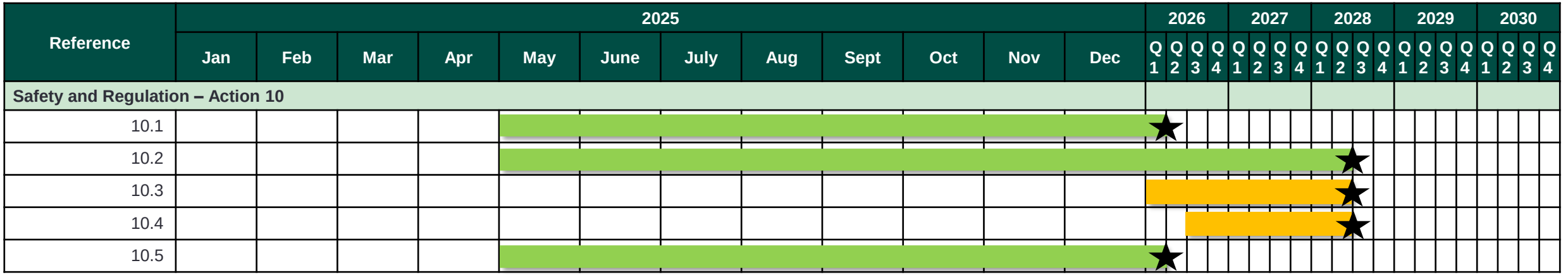
Action				Start Date	End Date
3 – Certification of renewable and low carbon hydrogen				2025	Ongoing
Sub-actions	**Lead**	**Key Stakeholders**	**Description**		
3.1	DCEE	D/Transport, GNI,CRU	Review Ireland's compliance with RFNBO certification obligations under RED III (i.e., GOs, DA on RFNBOs, Sustainability Criteria & Union DB)	Q2 2025	Q4 2025
3.2	DCEE	D/Transport, GNI,CRU	Ensure implementation of any outstanding tasks to ensure compliance	Q4 2025	Q2 2026
3.3	DCEE	D/Transport, GNI,CRU	Assess the benefits and needs for a national certification scheme, and set out a blueprint for how one could be developed	Q2 2025	Q1 2026
3.4	DCEE	n/a	Monitor developments on the publication of the EU low carbon hydrogen delegated act, and once published review and ensure compliance	Q2 2025	Ongoing



Safety and Regulation - Objectives and Milestones



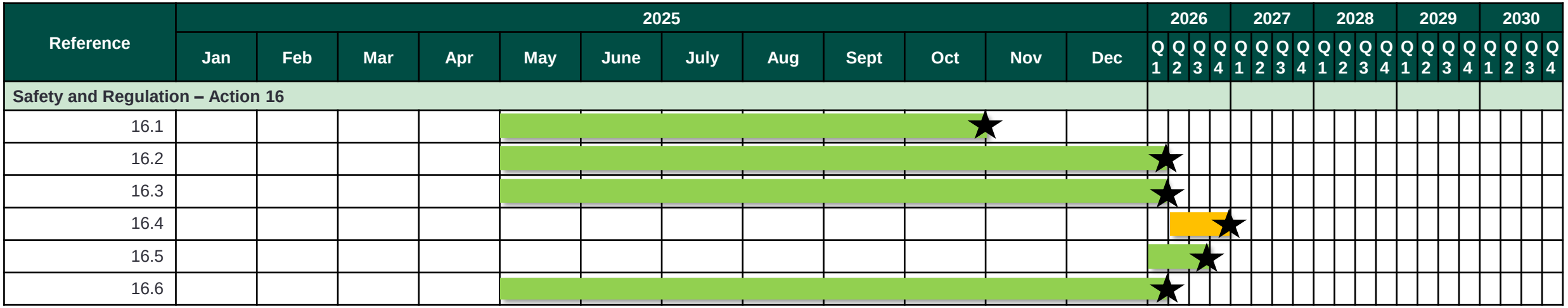
Action				Start Date	End Date
10 – Implement regulatory processes for underground hydrogen storage solutions				2025	2028
Sub-actions	**Owner**	**Key Stakeholders**	**Description**		
10.1	DCEE	MARA, GSRO, CRU	**Legislative gap analysis:** Undertake a review of the existing licensing and regulatory regimes relevant to the geological storage of hydrogen	Q2 2025	Q1 2026
10.2	DCEE	GSRO	**Identify Geological perspective:** Conduct a 3-year study to assess Ireland's potential for hydrogen storage across the country (GSI action – check dependency).	Q2 2025	Q2 2028
10.3	DCEE	GSRO, MARA	**Progress the necessary legislative changes:** Identified in the legislative gap analysis	Q1 2026	Q2 2028
10.4	GSRO	MARA, DCEE	**Develop regulatory frameworks:** Facilitate the future prospecting and development of underground hydrogen storage solutions. This work can proceed in parallel with actions 3 and 4, once the necessary legislation is in place.	Q3 2026	Q2 2028
10.5	MARA	DCEE, GSRO	**Conduct Review**: Undertake review of the DMAP process application to hydrogen storage, considering its potential strategic role in energy resilience and security, with a focus on legislative gap analysis.	Q2 2025	Q1 2026



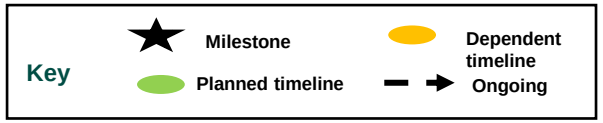
Safety and Regulation - Objectives and Milestones

Key: Milestone; Planned timeline; Dependent timeline; Ongoing

Action				Start Date	End Date
16 - Adopt the Hydrogen and Decarbonised Gas Market Package into legislation once approved by the EU institutions				2025	2026
Sub-actions	**Owner**	**Key Stakeholders**	**Description**		
16.1	DCEE	GNI, CRU	**Develop an impact assessment** on final Gas Package	Q2 2025	Q4 2025
16.2	DCEE	GNI, CRU	**Develop national policy position** in respect of an enduring HNO designation and the Single Network Operator Mode.	Q2 2025	Q1 2026
16.3	DCEE	GNI, CRU	**Develop a delivery plan** for transposition of the Gas Package.	Q2 2025	Q1 2026
16.4	DCEE	GNI, CRU	**Deliver transposition of the Gas Package into Irish legislation.**	Q2 2026	Q4 2026
16.5	DCEE	GNI, CRU	**Ensure readiness of resources** to operationalise key parties to implement Gas Package once transposed.	Q1 2026	Q3 2026
16.6	DCEE	GNI, CRU	**Identify and progress preferred options** for early designation of a HNO to engage at an EU level on network code and other developments through the newly established European Network of Network Operators for Hydrogen (ENNOH).	Q2 2025	Q1 2026



Safety and Regulation - Objectives and Milestones



Action				Start Date	End Date
17 - Undertake a review across the entire hydrogen value chain to identify any other gaps within our spatial planning, environmental permitting, and licensing regimes				2026	2026
Sub-actions	**Owner**	**Key Stakeholders**	**Description**		
17	DCEE	CRU, EPA, DHLGH	This action will consider wider regulatory and licensing considerations and aim to identify gaps or barriers which could inhibit projects from progressing.	Q2 2026	Q4 2026

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q 1**	**Q 2**	**Q 3**	**Q 4**	**Q 1**	**Q 2**	**Q 3**	**Q 4**	**Q 1**	**Q 2**	**Q 3**	**Q 4**	**Q 1**	**Q 2**	**Q 3**	**Q 4**	**Q 1**	**Q 2**	**Q 3**	**Q 4**
Safety and Regulation – Action 17																																
17																																

Safety and Regulation - Objectives and Milestones

Key: Milestone; Planned timeline; Dependent timeline; Ongoing

Action				Start Date	End Date
15 – Develop a safety roadmap with the relevant regulators, government, and industry representatives to deliver the necessary safety frameworks and regulatory regimes across the entire hydrogen value chain				2025	2026
Sub-actions	**Owner**	**Key Stakeholders**	**Description**		
15.1	DCEE	CRU, HSA, GNI, NSAI, D/Transport, DETE	**Develop safety roadmap**	Q2 2025	Q1 2026
15.2	DCEE	CRU, HSA, GNI, NSAI, D/Transport, DETE	**Appoint safety regulators:** according to roadmap strategy	Q2 2026	Q4 2026

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Safety and Regulation – Action 15 (WG2)																																
15.1																																
15.2																																

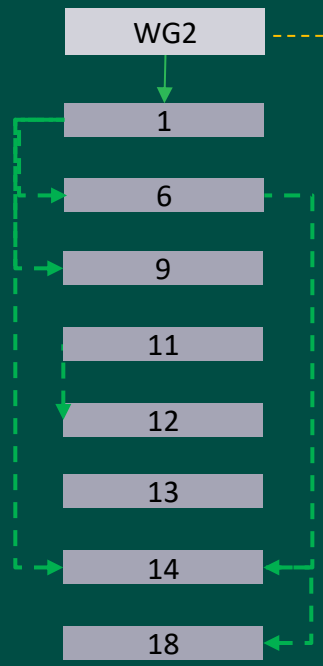
Infrastructure and Systems (WG2) - Implementation Plan

Scope of WG2
To ensure that the appropriate hydrogen transport and storage capacity is in place to support green hydrogen production and a fully decarbonised and secure energy system in line with national targets. Ensure that an integrated approach which reflects the most up-to-date understanding of the technical and economic potential of hydrogen is reflected in national energy planning, and that a coordinated approach is taken to furthering research in the field of green hydrogen.

Interdependencies

- WG2 has many interdependencies between WG1. The outputs from these WGs are inherently linked to the progress in WG2
- For example, much of the outputs from WG1 will guide the development for hydrogen infrastructure. WG2 is a large working group with many outputs. The main interdependencies lie within the working group as particular outputs are linked.

WG2 Actions



- Action: 3, 10, 15, 17

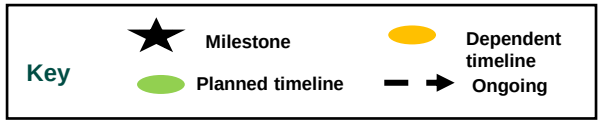
WG1

Key for interdependencies:

- Within WG
- Across WGs

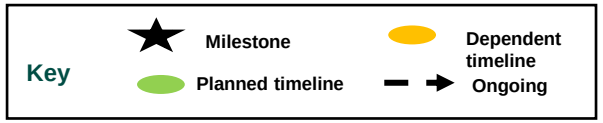
Members
SEAI
NSAI
CRU
GNI
DCEE
D/Transport
EirGrid

Infrastructure and Systems - Objectives and Milestones



Action				Start Date	End Date
11 - Continue work to prove the technical capabilities of the gas network to transport hydrogen through the network and closely work with the network operators in neighbouring jurisdictions in respect to interoperability between the networks				2025	2029
Sub-actions	**Owner**	**Key Stakeholders**	**Description**		
11.1	GNI	DCEE	Execute MOU with National Gas (UK) in respect to future cooperation on hydrogen	Q2 2025	Q3 2025
11.2	GNI	DCEE, CRU, HSA	Develop hydrogen blending roadmap for the gas network & hydrogen refuelling stations in line with the requirements in the Hydrogen & Decarbonised Gas Market Package to support EU obligations	Q2 2025	Q2 2026
11.3	CRU	GNI, DCEE, HSA	Confirm specific evidence base requirements for initial blends on the gas network	Q1 2026	Q2 2026
11.4	GNI	DCEE, CRU, HSA	GNI to develop the evidence base and subsequent safety case to facilitate initial blends on the gas network	Q2 2025	Q1 2029
11.5	GNI	DCEE, CRU, HSA	CRU assessment and acceptance of GNI safety case change to facilitate for initial blends on the gas network	Q1 2029	Q1 2029
11.6	GNI	DCEE, CRU, HSA	GNI to update the code of operations for the network	Q1 2029	Q1 2029
11.7	HSR	CRU, GNI, HSA, DCEE	Develop 100% hydrogen roadmap for a gas network	Q2 2026	Q2 2026
11.8	HSR	CRU, GNI, HSA, DCEE	Hydrogen regulator to specify the evidence base requirements for a 100% hydrogen network	Q4 2026	Q2 2027

Infrastructure and Systems - Objectives and Milestones



Action	Start Date	End Date
11 - Continue work to prove the technical capabilities of the gas network to transport hydrogen through the network and closely work with the network operators in neighbouring jurisdictions in respect to interoperability between the networks	2025	2029

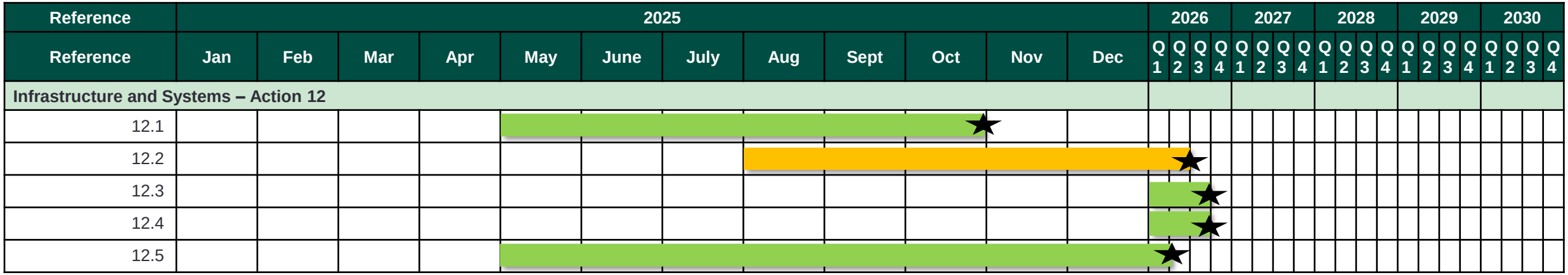
Reference	2025												2026				2027				2028				2029				2030			
Reference	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4
Infrastructure and Systems – Action 11																																
11.1																																
11.2																																
11.3																																
11.4																																
11.5																																
11.6																																
11.7																																
11.8																																

Infrastructure and Systems - Objectives and Milestones

Key: Milestone; Planned timeline; Dependent timeline; Ongoing

Action	Start Date	End Date
12 - Develop a plan for transitioning the gas network to hydrogen over time, taking due consideration of: **a. plans to develop a biomethane sector in Ireland,** **b. the prioritisation of end-uses set out in the National Hydrogen Strategy and their likely locations where known,** **c. the need to maintain energy security through the transition,** **d. how existing end-users can transition from natural gas to hydrogen, or to alternative energy solutions such as electric heating,** **e. the potential use of hydrogen blends during a transition phase, the costs associated and how the transition from blending can occur. The plan should look to identify where the network can be repurposed, or where new pipelines may be required and provide detailed costings and a programme of works**	2025	2026

Sub-actions	Owner	Key Stakeholders	Description		
12.1	GNI	DCEE, CRU	Agree supply / demand scenarios out to 2050	Q2 2025	Q4 2025
12.2	GNI	DCEE, CRU	Develop scenario-based network transition pathways, with a view to prioritise integration with other transitional energy pathways where possible	Q3 2025	Q2 2026
12.3	GNI	DCEE, CRU	Assess potential impacts to end-users during transition, identify potential mitigation options, and set out pros and cons of each	Q1 2026	Q3 2026
12.4	GNI	DCEE, CRU	Assess potential impacts to national energy security during transition, identify potential mitigation options, and set out pros and cons of each	Q1 2026	Q3 2026
12.5	GNI	DCEE, CRU	Undertake further assessment on the strategic role of blending in the energy transition	Q2 2025	Q1 2026



Infrastructure and Systems - Objectives and Milestones

Key: ★ Milestone; Planned timeline; Dependent timeline; Ongoing

Action				Start Date	End Date
1 - Develop and publish data sets showing the likely locations, volumes, and load profile of surplus renewables on our electricity grid out to 2030				2025	2026
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
1.1	EirGrid	DCEE	**Report completed by EirGrid:** Publication in March 2025	n/a	Completed
1.2	EirGrid	DCEE	**Complete sign-off of report and determine next steps**	Q2 2025	Q2 2025
1.3	EirGrid	DCEE	**Economic analysis:** Develop a hypothetical business case to determine key approaches, including modelling and evaluating the pros and cons of a hydrogen system. The report should consider curtailment opportunities and other relevant approaches. The start date will depend on resource availability.	Q2 2025	Q1 2026

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Infrastructure and Systems – Action 1																																
1.1	★																															
1.2						★																										
1.3													★																			

Infrastructure and Systems - Objectives and Milestones

Key: Milestone; Dependent timeline; Planned timeline; Ongoing

Action				Start Date	End Date
6 - Building on the work carried out by DETE on green energy park concepts, undertake a feasibility study of a hypothetical green energy cluster focused on multi-GW offshore wind supplying a variety of end-uses, with hydrogen being a key resilience vector.				2025	2025
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
6.1	DETE	DCEE	Complete & publish "An Economic Assessment of Green Energy Park Concepts" report	Q2 2025	Q4 2025
6.2	DETE	DCEE	Review & assign actions from the report	Q3 2025	Q4 2025

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Infrastructure and Systems – Action 6																																
6.1					★																											
6.2							★																									

Infrastructure and Systems - Objectives and Milestones

Key: Milestone; Planned timeline; Dependent timeline; Ongoing

Action				Start Date	End Date
9 - Undertake further work to determine the quantities and profile of zero carbon long duration energy storage needed out to 2050, and develop a roadmap as to how it can be delivered				2025	2027
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
9.1	SEAI	DCEE, EirGrid, GNI	**Conduct study:** to determine the likely quantities and profile of zero carbon energy storage needed	Q2 2025	Q2 2026
9.2	SEAI	DCEE, EirGrid, GNI	**Public consultation:** on the study to inform the draft roadmap	Q3 2026	Q4 2026
9.3	SEAI	DCEE, EirGrid, GNI	**Draft zero carbon energy roadmap:** using public consultation and initial study (to be discussed)	Q1 2027	Q2 2027
9.4	SEAI	DCEE, EirGrid, GNI	**Publish final Zero carbon energy roadmap** (Title to be confirmed)	Q3 2027	Q4 2027

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Infrastructure and Systems – Action 9																																
9.1																																
9.2																																
9.3																																
9.4																																

Infrastructure and Systems - Objectives and Milestones

Key: Milestone; Planned timeline; Dependent timeline; Ongoing

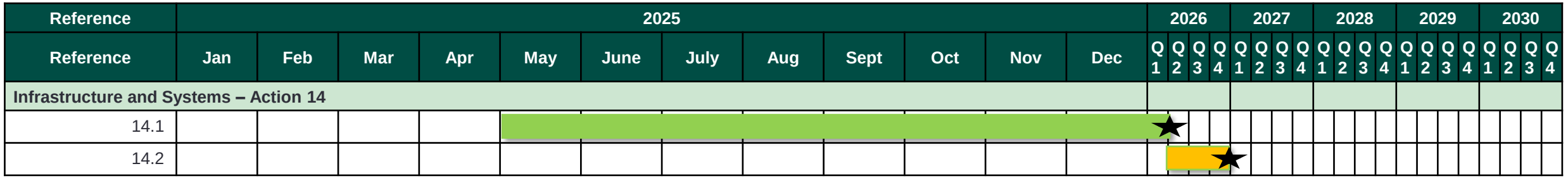
Action				Start Date	End Date
13 - Progress work to identify and support the development of strategic hydrogen hubs				2025	2027
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
13.1	DCEE	DCEE, EirGrid, GNI, SEAI, DETE	**Geospatial analysis:** Feed in information from other action and sub-actions work output to inform the development of strategic hydrogen hubs. Develop report that outputs best locations in Ireland.	Q2 2025	Q1 2027
13.2	DCEE	DCEE, EirGrid, GNI, SEAI, DETE	Publish a comprehensive geospatial map that highlights potential hydrogen hub locations based on layered analysis.	Q2 2026	Q3 2026
13.3	DCEE	DCEE, EirGrid, GNI, SEAI, DETE	Publish a strategic report detailing the optimal hydrogen hub locations in Ireland, including justifications, risk assessments, and recommendations for policymakers.	Q4 2026	Q1 2027

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Infrastructure and Systems – Action 13																																
13.1																																
13.2																																
13.3																																

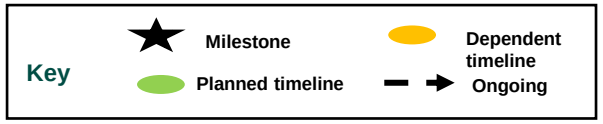
Infrastructure and Systems - Objectives and Milestones

Key: Milestone; Planned timeline; Dependent timeline; Ongoing

Action				Start Date	End Date
14 - Commence a review of current approaches to energy systems planning and make recommendations to support a more integrated long-term approach to planning across the network operators including electricity, natural gas, hydrogen, and water.				2025	2026
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
14.1	DCEE	EirGrid, GNI, CRU	**Assess options to comply with Article 55:** [Article 55 is driving this action– Mandates integrated network planning live in August 2026: Interdependent with Gas package]	Q2 2025	Q1 2026
14.2	DCEE	EirGrid, GNI, CRU	**Implement preferred option by August 2026**	Q2 2026	Q4 2026



Infrastructure and Systems - Objectives and Milestones



Action				Start Date	End Date
18 - Engage with Ireland's research sector to ensure sufficient focus is given to renewable hydrogen development and work to commission relevant research to help close the knowledge gaps identified throughout the National Hydrogen Strategy				2025	Ongoing
Sub-actions	**Owner**	**Key Stakeholders**	**Description**		
18.1	SEAI	n/a	**Reporting Process**: Develop a process for assessing and monitoring the landscape (horizon scanning) and reporting back on a regular basis.	Q4 2025	Ongoing
18.2	SEAI	n/a	**Gap analysis:** Conduct a gap analysis to ensure Ireland's approach to hydrogen adoption remains informed and up-to-date at both national and EU levels.	Q4 2025	Ongoing

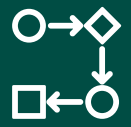
Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Infrastructure and Systems – Action 14																																
18.1																																
18.2																																

Markets and Commercialisation (WG3) - Implementation Plan

Scope of WG3

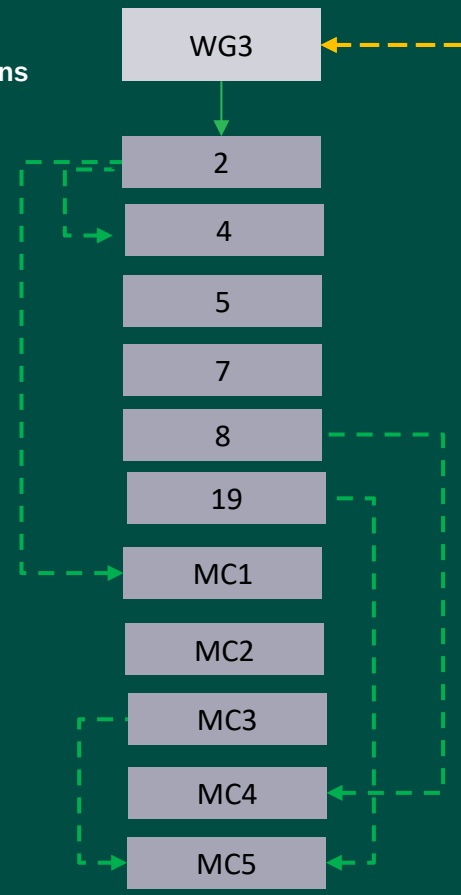
Launch a dedicated hydrogen fund to co-finance innovative hydrogen projects that demonstrate the long-term potential of green hydrogen in Ireland, and ultimately build on this to develop future funding models in line with the long term ambitions set out in national policy. Explore potential uses of hydrogen and its derivatives in the transport sector, in line with wider transport policy and ensure Ireland fulfils its end-use obligations set out in various EU directives and regulations. Explore Ireland's potential for hydrogen to create economic opportunities, domestic or international, and advance Ireland's position in the EU's hydrogen economy through cross-border collaboration and strategic partnerships. Investigate the potential for Ireland's indigenous industries to integrate hydrogen into their operations as part of the country's move towards a sustainable energy future, with a particular focus on power and heavy industry sectors.

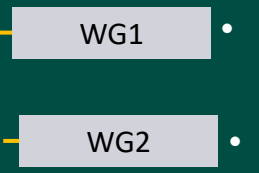
Interdependencies



- The findings of this WG are key to the development and funding of a hydrogen industry in Ireland.
- Additionally, as D/Transport is the owner and leading many of these initiatives through internal workstreams, then the success of this WG will be determined by D/Transport. Actions within this WG are closely related to one another.
- Additionally, the output from WGs 1 to 3 are all closely linked and could potentially influence the work completed in this WG. Therefore close collaboration and communication will be required

WG3 Actions





- Action: 3,10, 15, 16, 17
- Action: 1, 6, 9, 11, 12, 13, 14, 18

Key for interdependencies:

- Within WG
- Across WGs

FU stands for Funding: FU1 action was added and assigned a label for identification

Members
SEAI
DCEE
DETE
D/Transport
GNI
EI
EirGrid
IDA

Markets and Commercialisation - Objectives and Milestones

Key: Milestone; Planned timeline; Dependent timeline; Ongoing

Action				Start Date	End Date
2 - Establish an early hydrogen innovation fund to provide co-funding supports for demonstration projects across the hydrogen value chain				2025	2028
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
2.1	DCEE	D/Transport, DETE, DPENDR	**Strategic Assessment Report**	Q2 2025	Q4 2025
2.2	DCEE	D/Transport, DETE, DPENDR	**Preliminary Business Case**	Q3 2025	Q1 2026
2.3	DCEE	D/Transport, DETE, DPENDR	**Submit PBC for approval**	Q4 2025	Q2 2026
2.4	DCEE	D/Transport, DETE, DPENDR	**Continue the development of the innovation fund**	Q2 2026	Q1 2028

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Markets and Commericalisation – Action 2																																
2.1																																
2.2																																
2.3																																
2.4																																

Markets and Commercialisation - Objectives and Milestones

Key: ★ Milestone; Dependent timeline; Planned timeline; Ongoing

Action				Start Date	End Date
4 - Develop the commercial business models to support the scale up and development of renewable hydrogen, targeting surplus renewable grid electricity pre-2030 and an initial 2GW of offshore wind from 2030				2025	2026
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
4.1	DCEE	DETE, D/Transport, EirGrid, SEAI	**Develop a programme** - Scope out this work and agree ownership, and timeline (incorporate key learnings from the outputs of other WGs)	Q2 2025	Q1 2026

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Markets and Commericalisation – Action 4																																
4.1													★																			

Markets and Commercialisation - Objectives and Milestones

Key: Milestone; Dependent timeline; Planned timeline; Ongoing

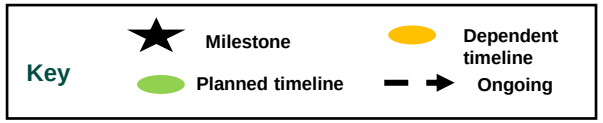
Action				Start Date	End Date
MC1 - Identify and progress opportunities for EU funding				2025	Ongoing
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
MC1.1	DCEE	n/a	**Support for EU innovation fund stakeholder workshops**	Q2 2025	Q1 2025
MC1.2	DCEE	n/a	**Advocate for favourable T&Cs for EU T&Cs from Irish perspective**	Q2 2025	Q1 2025
MC1.3	DCEE	n/a	**Attend and participate in EU Regional Group meetings for hydrogen-themed Projects of Common Interest**	Q2 2025	Ongoing
MC1.4	DCEE	n/a	**Support and engage with any potential Irish projects seeking EU funding**	Q2 2025	Ongoing
MC1.5	DCEE	n/a	**Develop an information guideline presentation setting out details on all EU / similar related funding opportunities**	Q2 2025	Ongoing

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Markets and Commericalisation – Action MC1																																
MC1.1																																
MC1.2																																
MC1.3																																
MC1.4																																
MC1.5																																
MC1.6																																

Markets and Commercialisation - Objectives and Milestones

Action				Start Date	End Date
7 - Publish the draft National Policy Framework on Alternative Fuels Infrastructure, and support the roll-out of hydrogen powered heavy duty vehicles and refuelling infrastructure in line with EU requirements set out in the recast Renewable Energy Directive and Alternative Fuels Infrastructure Regulation				2025	2030
Sub-actions	**Owner**	**Key stakeholder**	**Description**		
7.1	D/Transport	DCEE	Publish the final version of the revised National Policy Framework on Alternative Fuels Infrastructure, as required under AFIR	Q2 2025	Q1 2026
7.2	D/Transport	DCEE	Undertake a segmentation and analysis of land transport end uses to determine those for which hydrogen could offer more optimal energy source solutions relative to planned electrification of land transport.	Q3 2025	Q1 2026
7.3	D/Transport	D/Taoiseach, DCEE	Undertake Phase III of the Shared Island Initiative Hydrogen Refuelling project to develop a pre-procurement strategy and preliminary business case.	Q2 2025	Q2 2030
7.4	D/Transport	DCEE	Review current RTFO supports for RFNBO supply incl. Hydrogen in transport considering RED III RES-T 2030 targets	Q2 2025	Q1 2026
7.5	D/Transport	D/Transport	Review references to Maritime end-use in National Hydrogen Strategy in light of ongoing research on maritime fuel pathways, e.g. Shipfuel.ie	Q2 2025	Ongoing

Markets and Commercialisation - Objectives and Milestones



Reference	2025												2026				2027				2028				2029				2030			
Reference	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Markets and Commericalisation – Action 7																																
7.1																																
7.2																																
7.3																																
7.4																																
7.5																																

Markets and Commercialisation - Objectives and Milestones

Key: Milestone; Dependent timeline; Planned timeline; Ongoing

Action				Start Date	End Date
MC2 **- Delivery on the SAF Policy Roadmap for Ireland and continued delivery of the actions set out within the Roadmap**				2025	Ongoing
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
MC2.1	D/Transport	DCEE	**Publish** SAF Policy Roadmap and outline future actions	Q2 2025	Q4 2025
MC2.2	D/Transport	DCEE	**Implement** the actions determined from the from SAF Policy Roadmap	Q4 2025	Ongoing

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Markets and Commericalisation – Action MC2																																
MC2.1																																
MC2.2																																

Markets and Commercialisation - Objectives and Milestones

Key: Milestone; Dependent timeline; Planned timeline; Ongoing

Action				Start Date	End Date
8 - Through the development of the National Industrial Strategy for Offshore Wind, assess the feasible potential for end-uses such as eFuels, decarbonised manufacturing and export of hydrogen and its derivatives				2025	2026
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
8.1	DETE	DCEE, D/Transport	**Undertake a feasibility study** on the potential for end-uses such as eFuels, decarbonised manufacturing and export of hydrogen and its derivatives.	Q3 2025	Q2 2026

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Markets and Commericalisation – Action 8																																
8.1																																

Markets and Commercialisation - Objectives and Milestones

Key: Milestone; Dependent timeline; Planned timeline; Ongoing

Action				Start Date	End Date
19 - Continue to engage in EU hydrogen related initiatives and develop cooperation in the fields of renewable hydrogen development with neighbouring jurisdictions and international partners				2025	2026
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
19.1	DCEE	n/a	**Set up quarterly trilateral call** with the UK and Northern Ireland to update on latest hydrogen policy developments. In addition, attend bi-annual MoU meetings with the UK.	Q4 2025	Ongoing
19.2	DCEE	n/a	**Set up bi-monthly meetings** with German counterparts	Q4 2025	Q1 2026
19.3	DCEE	n/a	**Produce Study:** Develop a forward look of research and knowledge opportunities to support the prioritisation of engagement with other jurisdictions.	Q2 2025	Q1 2026
19.4	DCEE	n/a	**Attend Project HYreland Steering Group meetings**	Q2 2025	Q1 2026

Reference	2025												2026				2027				2028				2029				2030			
Reference	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Markets and Commericalisation – Action 19																																
19.1																																
19.2																																
19.3																																
19.4																																

Markets and Commercialisation - Objectives and Milestones

Key: Milestone; Dependent timeline; Planned timeline; Ongoing

Action				Start Date	End Date
MC3 - **Actively participate in NSEC SG5 and engage closely with relevant jurisdictions on hydrogen export opportunities**				2025	Ongoing
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
MC3.1	DCEE	GNI	**Reporting process:** maintain an ongoing work programme with regular meetings and reports	Q2 2025	Ongoing

Reference	2025												2026				2027				2028				2029				2030			
Reference	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Markets and Commericalisation – Action MC3																																
MC3.1																																

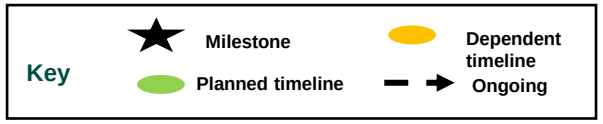
Markets and Commercialisation - Objectives and Milestones

Key: Milestone; Dependent timeline; Planned timeline; Ongoing

Action				Start Date	End Date
MC4 **- Further assess the feasibility of hydrogen export markets and routes, including the costs and viability of transport options, including export pipeline routes. (FFPS 28)**				2025	Ongoing
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
MC4.1	DCEE	GNI, DETE	**Conduct a comprehensive export feasibility study**, assessing market potential, regulatory requirements, logistical challenges, economic viability, and maintain connection to the hydrogen market to keep updated with latest information.	Q2 2025	Ongoing

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Markets and Commericalisation – Action MC4																																
MC4.1																																

Markets and Commercialisation - Objectives and Milestones



Action				Start Date	End Date
MC5 **A: In consultation with industry, identify the primary enterprise sectors where demand for green hydrogen is expected - 2025-2026** **B: Informed by the sectoral analysis of green hydrogen demand, and in consultation with industry, identify the potential industrial demand for green hydrogen within each of these enterprise sectors - 2026-2027**				2025	Ongoing
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
MC5.1	DETE	DCEE	**Conduct consultation** with industry to identify the primary enterprise sectors where demand for green hydrogen is expected.	Q3 2025	Q2 2026
MC5.2	DETE	DCEE	**Based on the sectoral analysis of green hydrogen demand and industry consultations,** assess and identify the potential industrial demand for green hydrogen across these enterprise sectors.	Q3 2026	Ongoing

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q 1**	**Q 2**	**Q 3**	**Q 4**	**Q 1**	**Q 2**	**Q 3**	**Q 4**	**Q 1**	**Q 2**	**Q 3**	**Q 4**	**Q 1**	**Q 2**	**Q 3**	**Q 4**	**Q 1**	**Q 2**	**Q 3**	**Q 4**
Markets and Commericalisation – Action MC5																																
MC5.1																																
MC5.2																																

Markets and Commercialisation - Objectives and Milestones

Key: Milestone; Dependent timeline; Planned timeline; Ongoing

Action				Start Date	End Date
5 - Develop a roadmap to bring net zero dispatchable power solutions to market by 2030, to support the delivery of a near net zero power system by 2035				2025	2028
Sub-actions	**Owner**	**Key Stakeholder**	**Description**		
5.1	SEAI	DCEE, EirGrid	**Complete Decarbonised Power System Study**	Q2 2025	Q3 2026
5.2	DCEE	SEAI, EirGrid	**Undertake public consultation to inform the draft roadmap**	Q4 2026	Q1 2027
5.3	DCEE	SEAI, EirGrid	**Draft zero carbon dispatchable power roadmap using public consultation and initial study (to be discussed)**	Q2 2027	Q3 2027
5.4	DCEE	SEAI, EirGrid	**Publish final zero carbon dispatchable power roadmap**	Q4 2027	Q1 2028

Reference	2025												2026				2027				2028				2029				2030			
Reference	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**June**	**July**	**Aug**	**Sept**	**Oct**	**Nov**	**Dec**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**	**Q1**	**Q2**	**Q3**	**Q4**
Markets and Commericalisation – Action 5																																
5.1																																
5.2																																
5.3																																
5.4																																