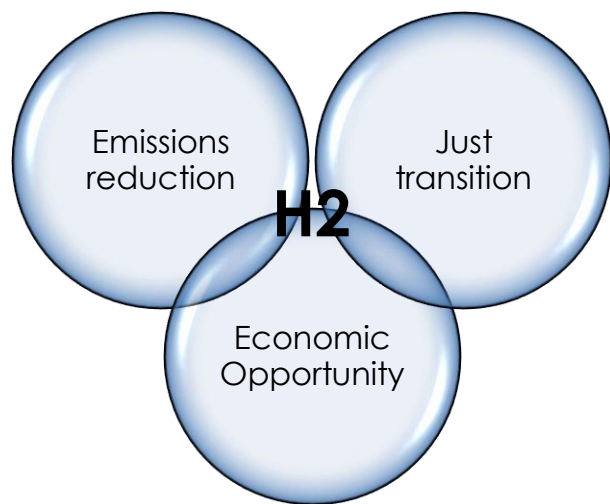


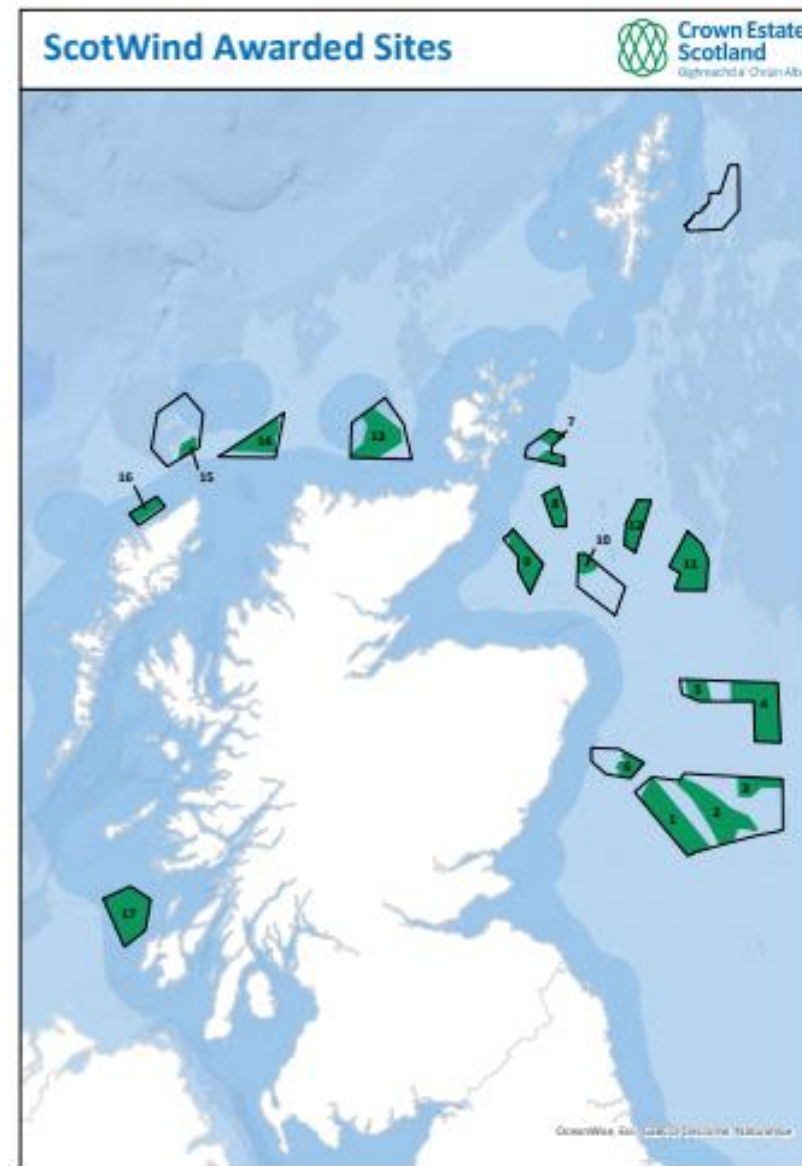
Scottish Government Hydrogen Policy Priorities



Why hydrogen and why Scotland?



- ✓ Abundant natural resources
- ✓ Experienced energy exporter
- ✓ Skilled energy supply chain
- ✓ Research and innovation expertise
- ✓ Supportive policy environment



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Learning by doing

End User

- 01 Aberdeen Exhibition and Conference Centre (AECC)
- 02 Cloverhill's Aberdeen Hydrogen First
- 03 Eden Mill distillery
- 04 Glasgow Hydrogen Gritters
- 05 H2SEED Stornoway Hydrogen Refueller
- 06 HECTOR project
- 07 HyDIME
- 08 HyFlyer
- 09 HySeas III
- 10 HySpirits
- 11 HyTransit Project - Aberdeen Hydrogen Busses
- 12 Hytec
- 13 JIVE 2 - Dundee Hydrogen Transport
- 14 Kirkwall Airport Decarbonisation
- 15 LOHC feasibility project
- 16 Project HyLaddie
- 17 Scottish Hydrogen Train project
- 18 TimberLINK
- 19 Uist Distilling Company

Multi-vector

- 20 Aberdeen Hydrogen Hub
- 21 Aberdeen Vision
- 22 BIG HIT
- 23 East Neuk Power to Hydrogen
- 24 GENCOMM - AD
- 25 Green Hydrogen Hub for Isle of Lewis
- 26 ITEG - Integrating Tidal Energy into the European Grid
- 27 Levenmouth Community Project
- 28 Methiltounne
- 29 North of Scotland Hydrogen Programme
- 30 OHLEH - Outer Hebrides Local Energy Hub
- 31 Orion Project
- 32 PITCHES

- 33 ReFLEX (Responsive Flexibility) Project
- 34 The Hydrogen Office
- 35 The PURE Project

Production

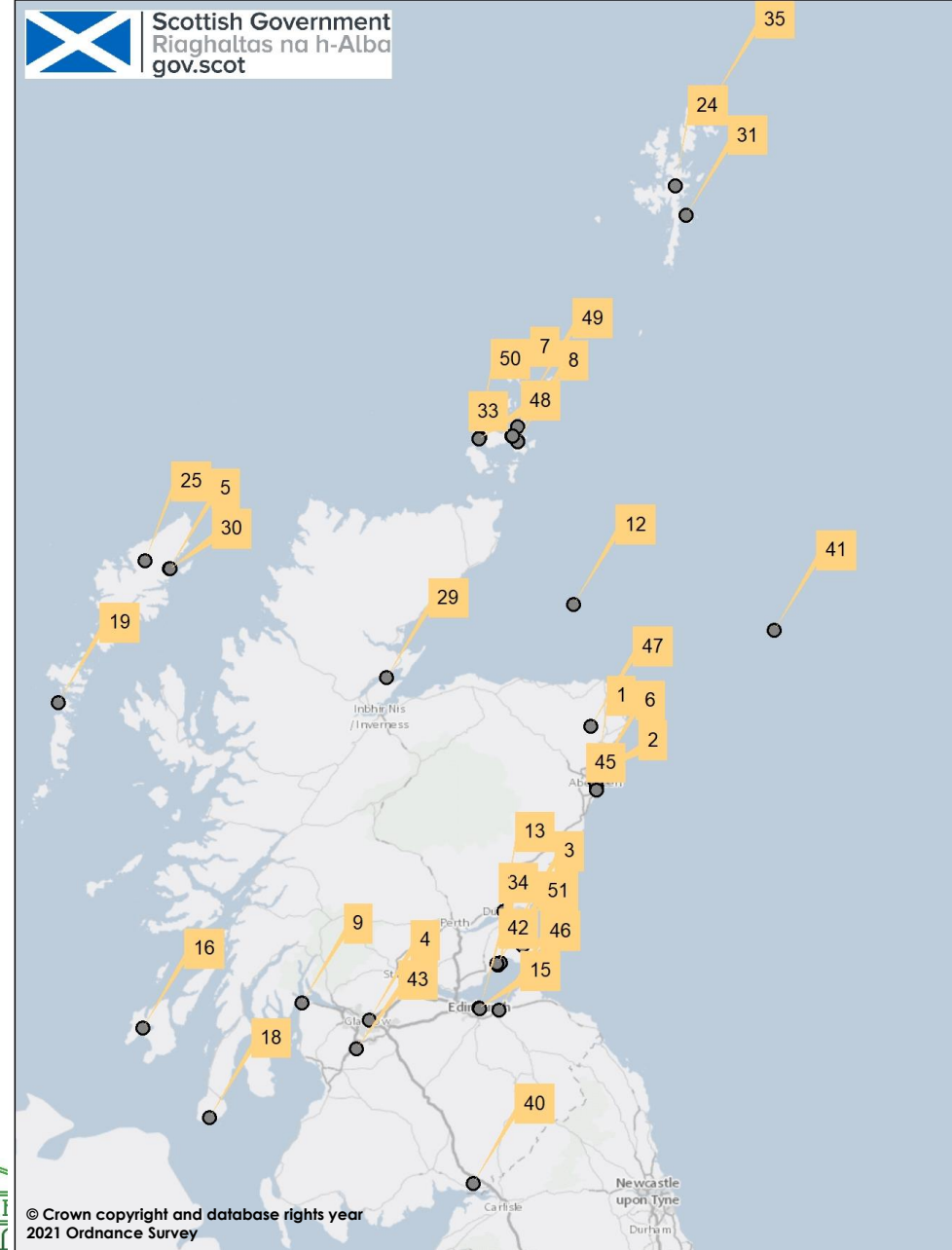
- 36 Aberdeen Hydrogen Centre (ACHES)
- 37 Acorn CCS
- 38 Acorn Hydrogen
- 39 Caledonia Clean Energy Project
- 40 Chapelcross Initiative
- 41 Dolphyn Project
- 42 Edinburgh International Festival decarbonisation project
- 43 Green Hydrogen for Glasgow
- 44 Hammars Hill Green Ammonia project
- 45 Kittybrewster Refuelling Station
- 46 Logan Energy HRS
- 47 Skelmonae Green Hydrogen
- 48 Surf 'n' Turf

Storage

- 49 Eday Flow Cell Battery Project
- 50 HyAI

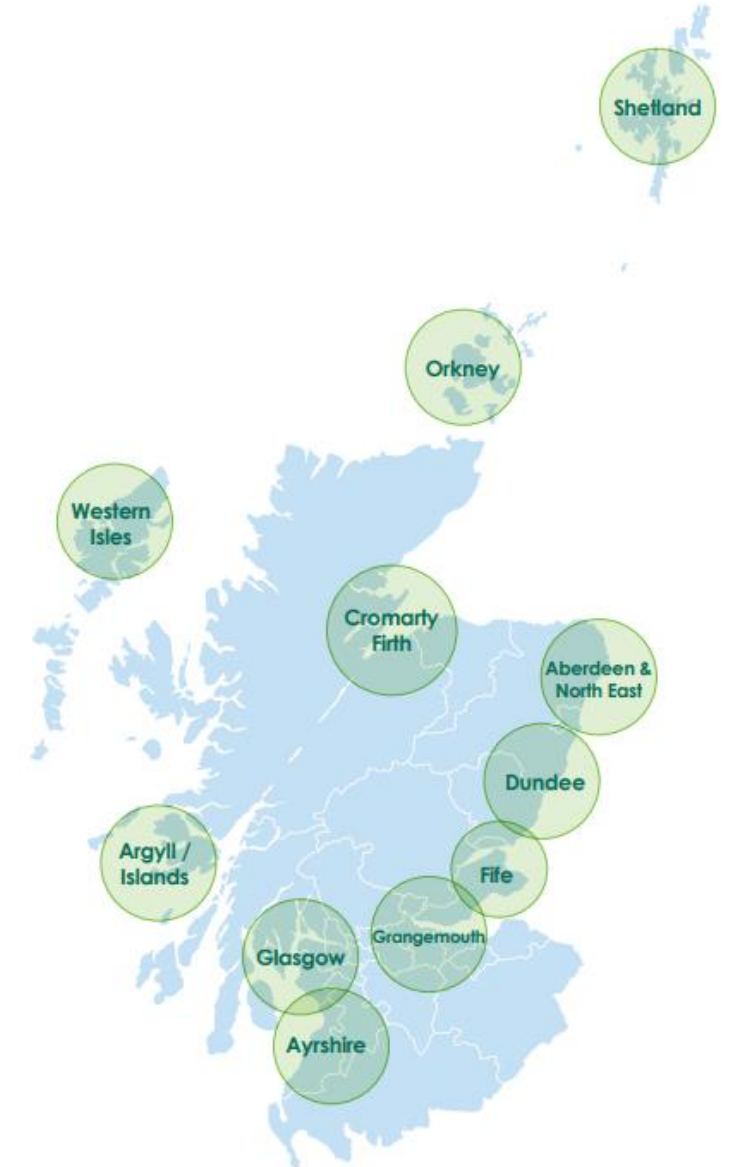
Transmission/distribution

- 51 H100 Fife project



The Scottish Government has committed to support for the development of Regional Hydrogen Energy Hubs

A **Regional Hydrogen Energy Hub** is a geographic location (region, city, island, industrial cluster) that is host to the entire hydrogen value chain, from production, storage and distribution to end-use. Regional Hydrogen Hubs will include multiple end-users with applications ideally covering more than one sector.



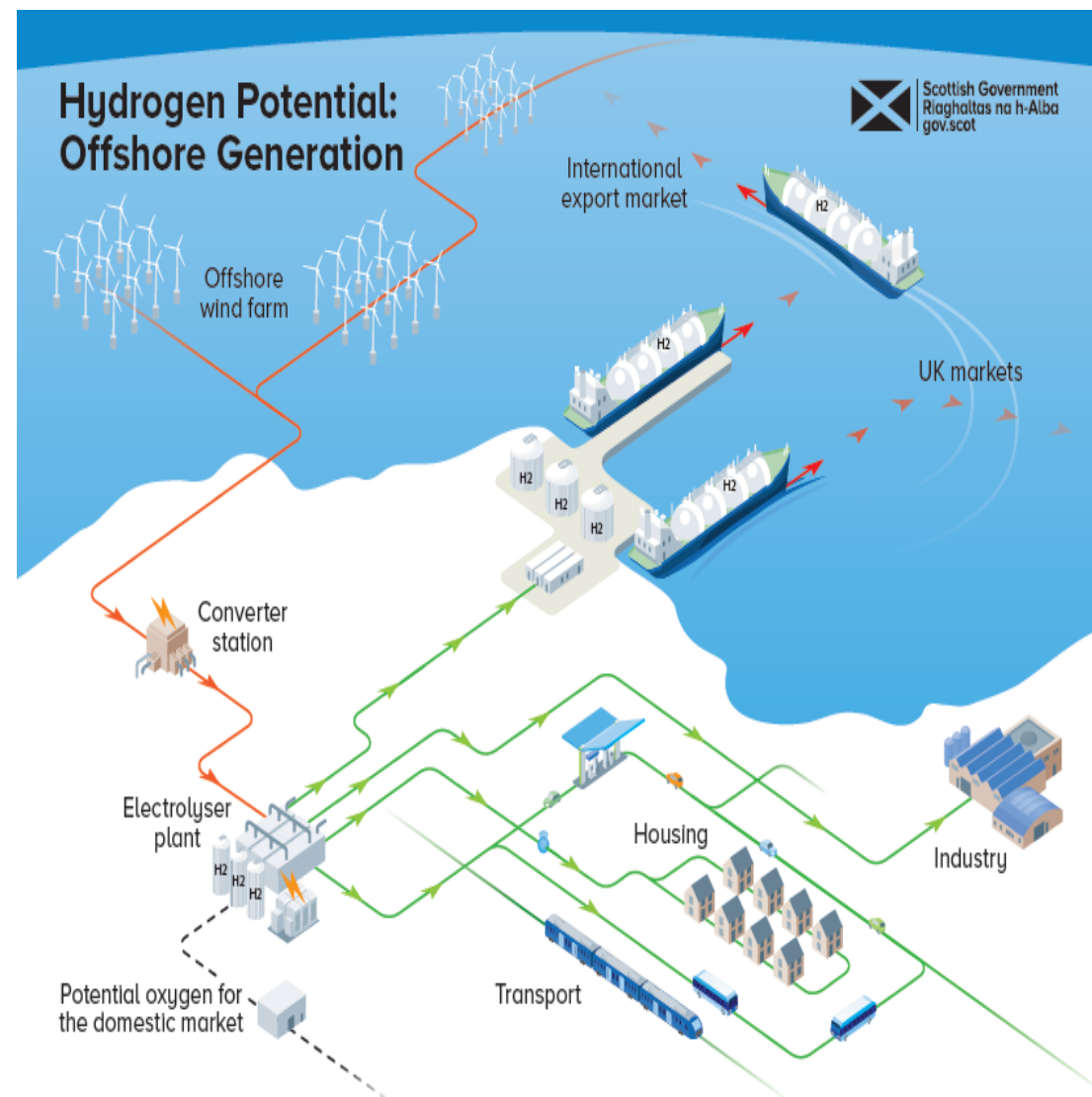
Policy Background

Hydrogen
Assessment
Project

Hydrogen
Policy
Statement

Draft
Hydrogen
Action Plan

- Scotland's abundant offshore wind resources offer the potential for large scale production of renewable hydrogen
- Hydrogen is not just an energy and emissions reduction opportunity, it could also have an important role in generating new economic opportunities in Scotland
- Both renewable and low-carbon hydrogen will play an important role in our transition to net zero in 2045
- **Ambition of 5GW installed hydrogen production capacity by 2030 and 25GW by 2045**



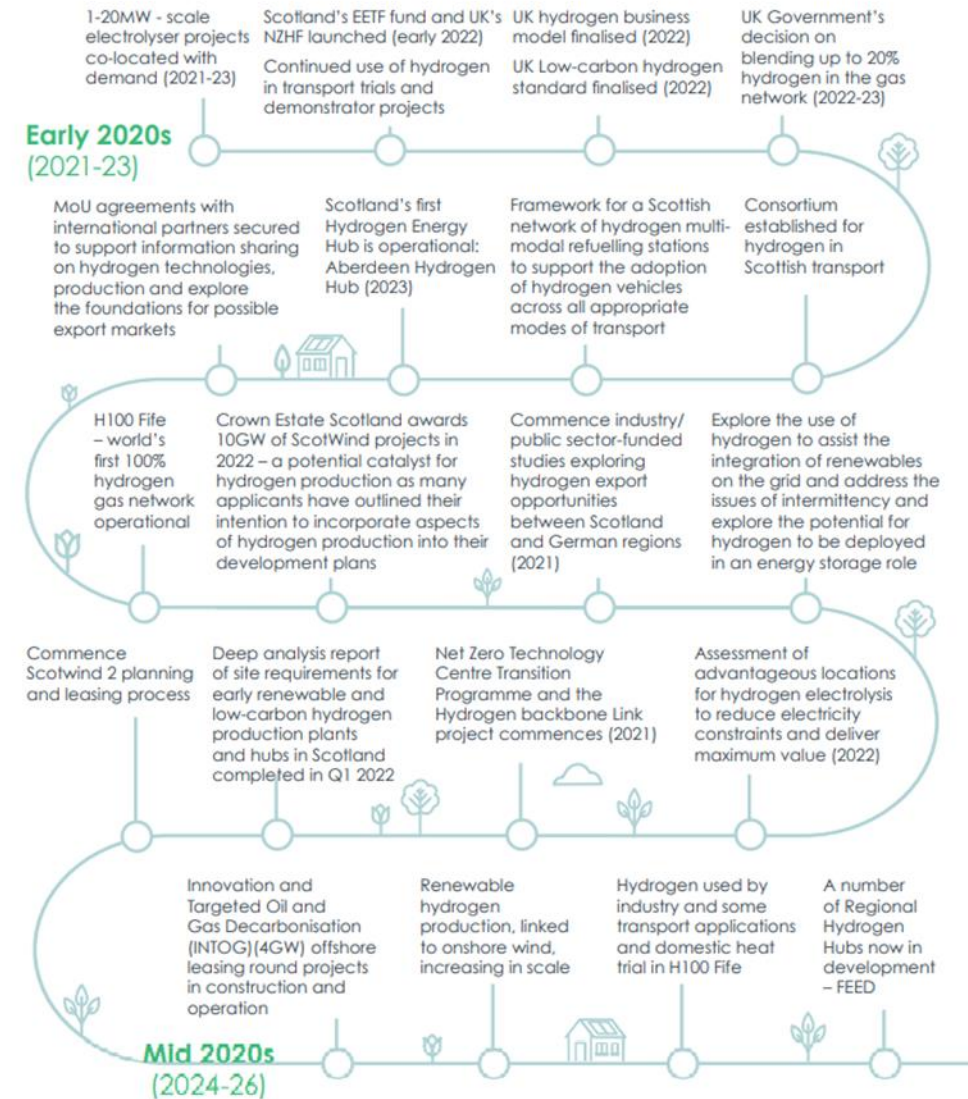
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Hydrogen Action Plan - November 2021

- Companion document to Hydrogen Policy Statement
- Defines some of the key, short-term actions necessary to achieve aims, ambitions and commitments
- Commitment to working in partnership

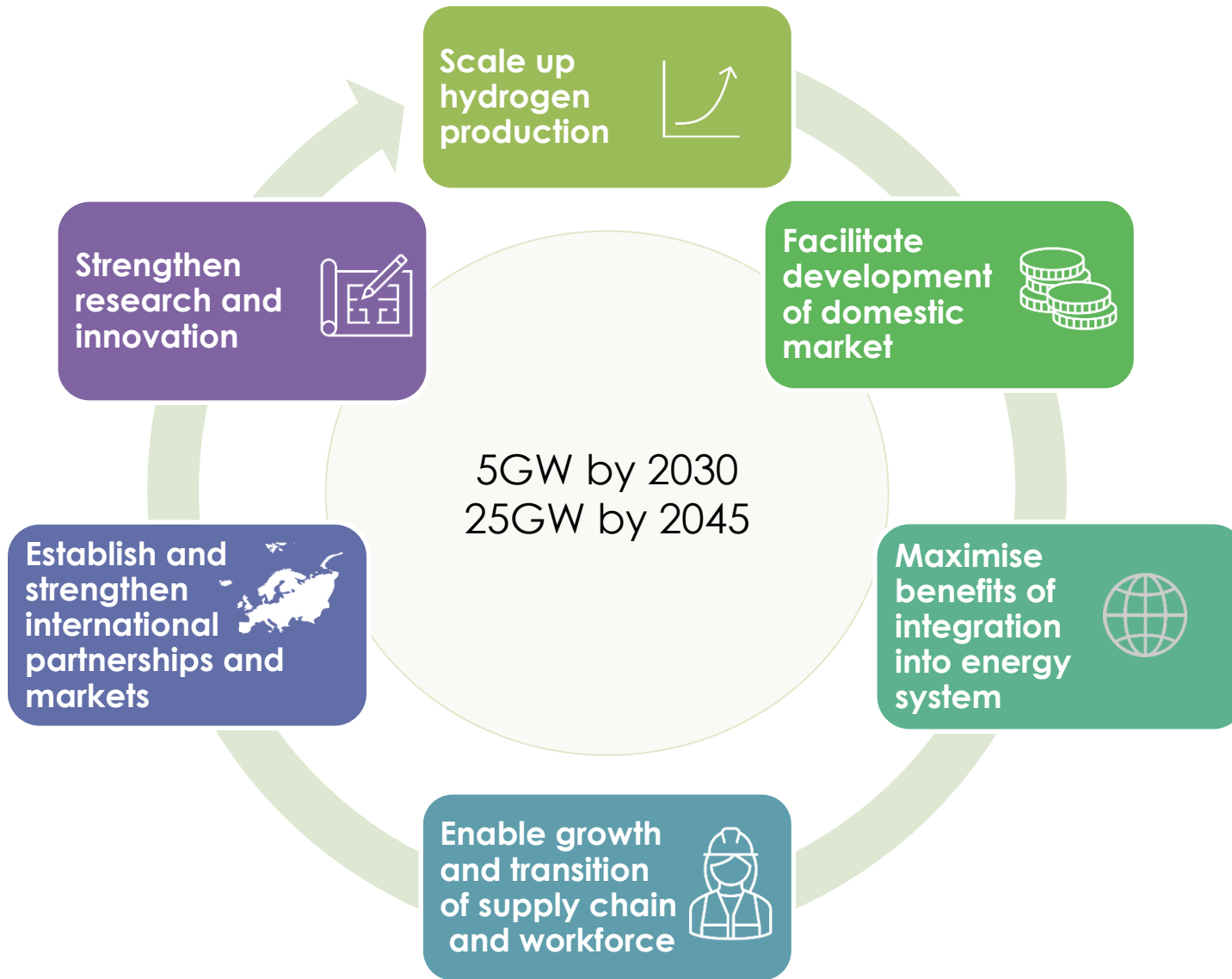
The Hydrogen Economy Journey



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Key Focus Areas



Key Commitments

- ❑ Ensure the regulatory, planning and consenting framework for renewable energy and hydrogen developments supports the scale-up of hydrogen production at pace
- ❑ Strengthen existing relationships and develop new bilateral partnerships to encourage collaboration and knowledge sharing to advance our mutual hydrogen economies.
- ❑ Work with industry to develop a sector export plan
- ❑ Support development of domestic and international supply chains
 - Scot2Ger project
 - Supply chain event
- ❑ Support the development of hydrogen infrastructure and transport options to connect Scotland to European customers.
 - NZTC Hydrogen Backbone link
- ❑ Support multi-national collaboration on research and innovation challenges.
 - RSE Scotland-Germany Hydrogen Research Scheme



- **£100m** Emerging Energy Technologies Fund to support renewable hydrogen projects *(Complementary to UK Gov Net Zero H2 fund)*
- **£10m** Scottish Hydrogen Innovation Fund
- A call for projects will be launched in later in 2022

Funds	Target Group	£
Emerging Energy Technologies Fund (Hydrogen/CCUS/NETs)	Business/Industry	£180m (2021-26) £180m breakdown: £100m hydrogen £80m CCUS/NETs
Energy Transition Fund	Business	£62m (2020-25)
Energy Investment Fund	Third Sector	£60m
Community & Renewable Energy Scheme (CARES)	Community/Third Sector	£8.25m (2021-22)
Successor to the Low-Carbon Infrastructure Transition Programme (LCITP)	Public and Private Sector	£400m (2021-26)
Low-Carbon Manufacturing Challenge Fund	Business	£50m
Scottish Industrial Energy Transition Fund (SIETF)	Business/Industry	£34m (2021-26)
Green Supply Chain Development Fund	Business	£50
Green Jobs Fund	Enterprise Agencies	£100m (2021-26)
Green Business Support Fund	Business	£50m
Green Growth Accelerator Programme – unlocking £200 million of public and private investment in low-carbon infrastructure projects across Scotland, underpinned by Scottish Government funding.	Local Authorities	£200m +
Switched-On Fleets	Public Sector	£12m
Scottish Zero Emission Bus Challenge Fund – support for the cost of zero-emission buses and the associated charging or refuelling infrastructure.	Public and Private sector	£50m



The Draft Hydrogen Action Plan can be viewed here:

<https://www.gov.scot/publications/draft-hydrogen-action-plan/>

The Hydrogen Policy Statement can be viewed at:

<https://www.gov.scot/isbn/9781800045033>

The Hydrogen Assessment report can be viewed at:

<https://www.gov.scot/isbn/9781800045057>

The Wind to Green Hydrogen Supply Chain Study can be viewed at:

<https://www.gov.scot/isbn/9781800045040>

The Deep Decarbonisation report can be viewed at:

<https://www.gov.scot/isbn/9781800044111>

Draft Hydrogen Action Plan



Thank you

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