Hydrogen – Introduction & Scene Setter

Hydrogen has captured worldwide interest and is seen as playing a major role in the de-carbonisation of current energy systems.

2021 was an important year for;

- A number of very significant policy announcements in low-carbon hydrogen & CCUS
- project pipeline growth for both low-carbon hydrogen & CCUS
- green h2 projects making up 75% of this growth
- overall progress and positioning in the overall context of the Energy Transition

2022 is an important year for;

- translating policy into reality
- 359 Global Projects (green and blue) plus many other projects in early development not yet publicly announced
- acceleration of project approvals
- generating further investor interest & confidence

2023 will be an important year for;

- further accelerating pace
- further building investor interest & confidence
- driving a step change in project delivery
- Building scale & reducing cost of hydrogen

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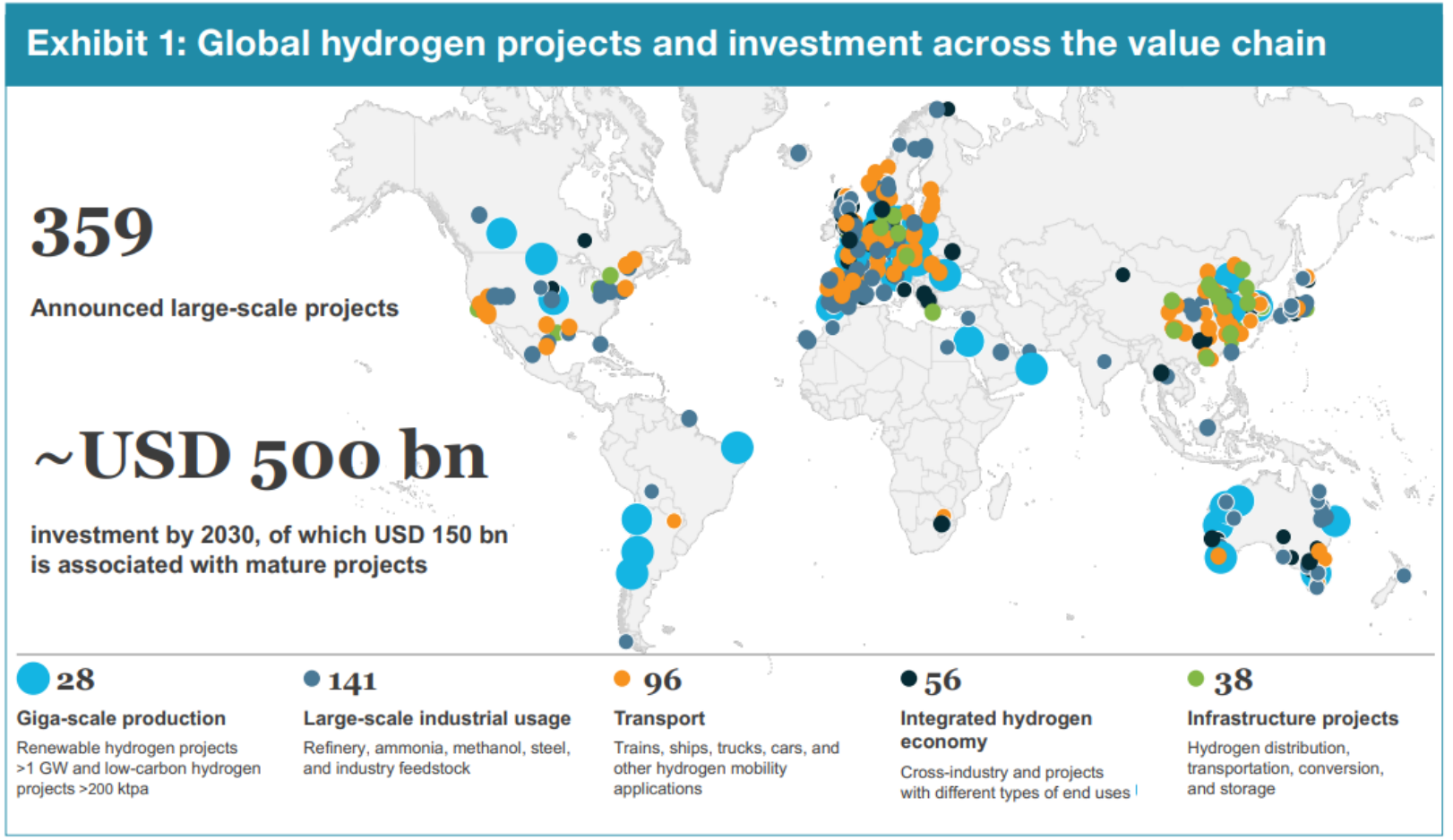
Exhibit 1: Global hydrogen projects and investment across the value chain



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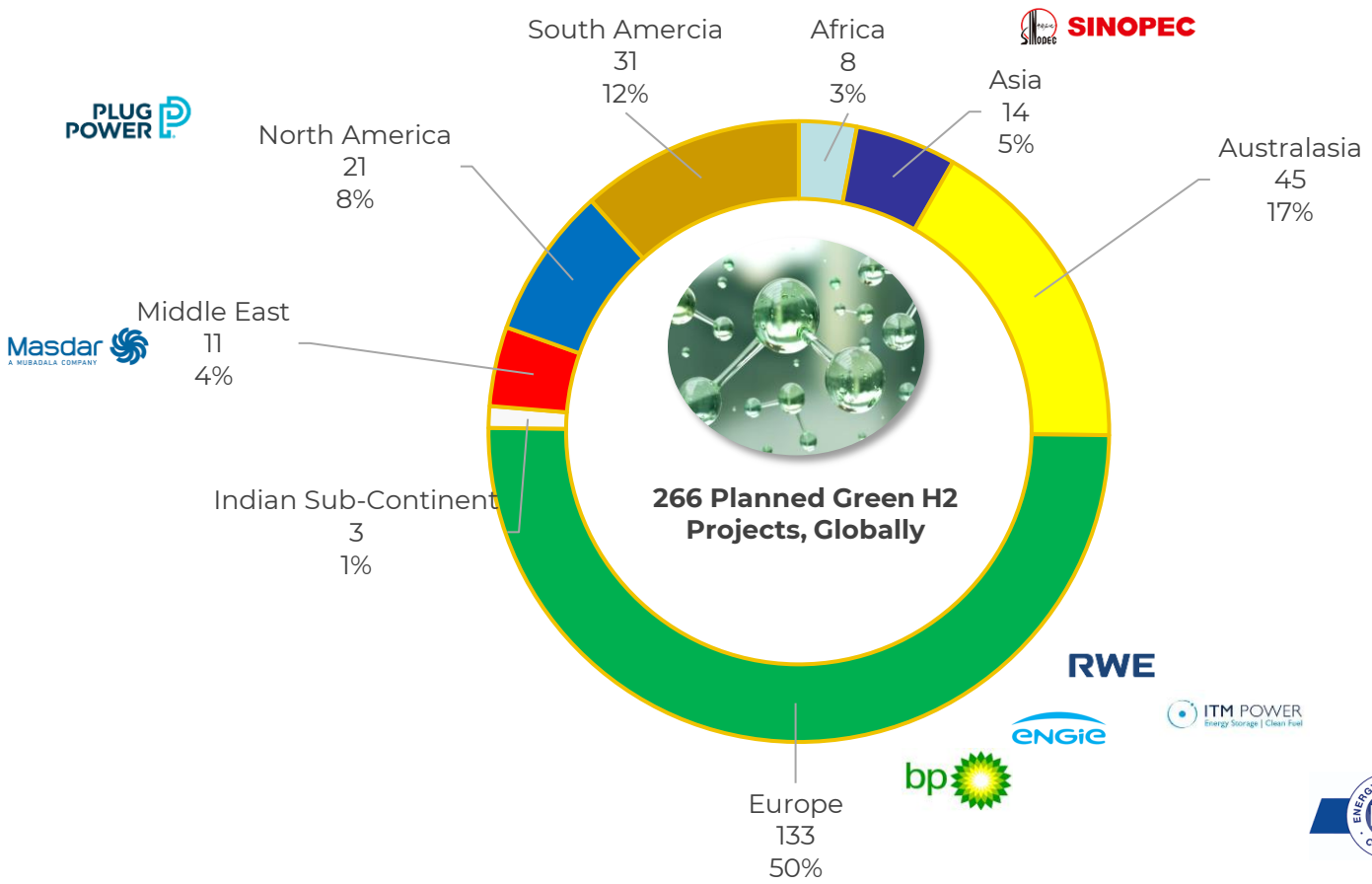

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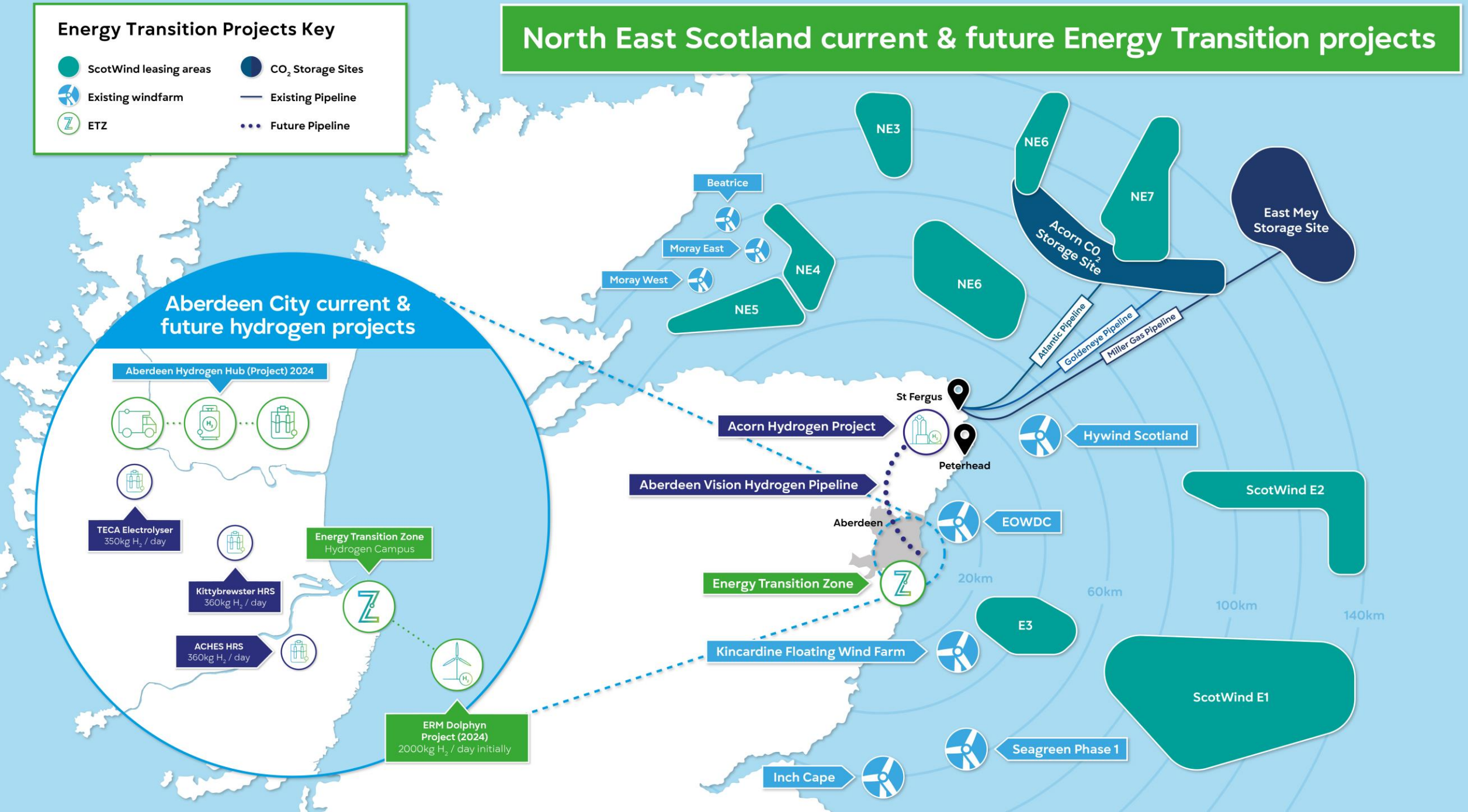
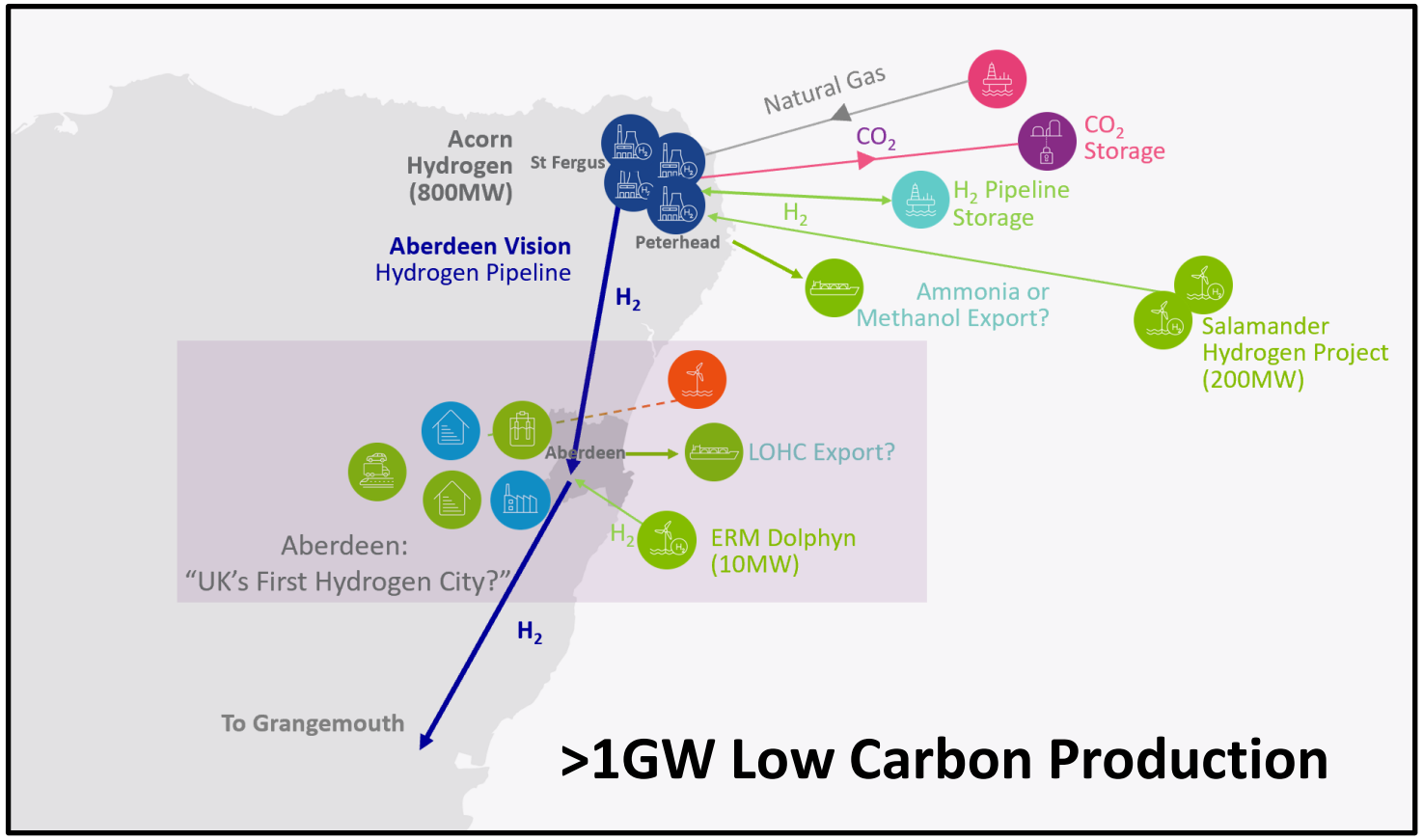
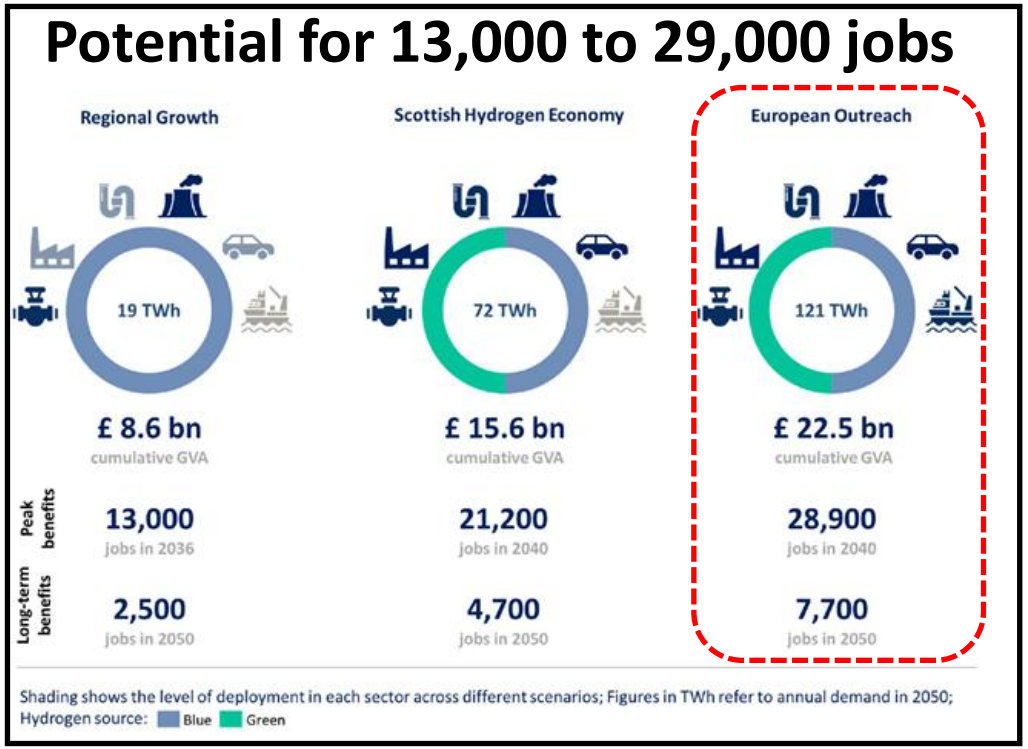

Energy Transition Projects Key
ScotWind leasing areas
Existing windfarm
ETZ
CO_2 Storage Sites
Existing Pipeline
Future Pipeline
North East Scotland current & future Energy Transition projects
Aberdeen City current & future hydrogen projects
Aberdeen Hydrogen Hub (Project) 2024
TECA Electrolyser
350kg H_2 / day
Kittybrewster HRS
360kg H_2 / day
ACHES HRS
360kg H_2 / day
Energy Transition Zone
Hydrogen Campus
ERM Dolphyn Project (2024)
2000kg H_2 / day initially
Beatrice
Moray East
Moray West
NE3
NE4
NE5
NE6
NE6
NE7
Acorn CO_2 Storage Site
East Mey Storage Site
Atlantic Pipeline
Goldeneye Pipeline
Miller Gas Pipeline
St Fergus
Acorn Hydrogen Project
Peterhead
Hywind Scotland
Aberdeen Vision Hydrogen Pipeline
ScotWind E2
Aberdeen
EOWDC
Energy Transition Zone
20km
60km
100km
140km
E3
Kincardine Floating Wind Farm
ScotWind E1
Seagreen Phase 1
Inch Cape

NE Scotland's Hydrogen Economy by 2032: Regional, National & International Impact





"North East Scotland is well placed to deliver a substantial proportion of the UK's future low carbon hydrogen requirements as a result of a number of current and near future hydrogen projects, which combined are expected to generate in excess of ***200MW by 2025-27****. These projects can be scaled up quickly to contribute* ***over 1GW (20%) of Scotland's low carbon hydrogen production target of 5GW by 2030-32".***