

Hydrogen Mobility in Aberdeen the full story

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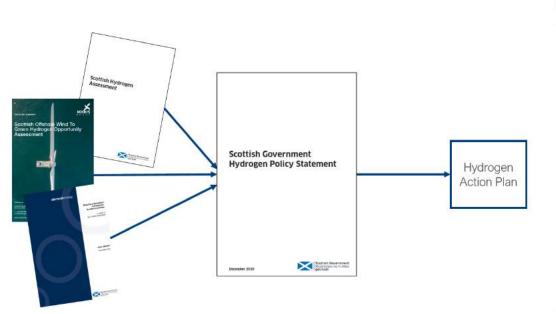


H2 Aberdeen





HYDROGEN IN SCOTLAND

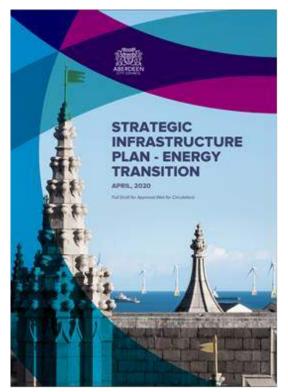


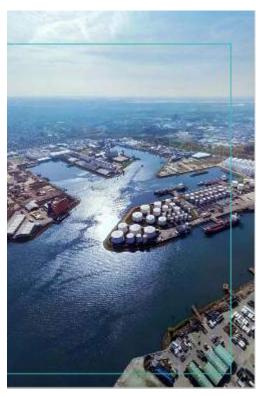
- Glasgow hydrogen Project Acorn transport project
- Hydrogen Offshore Production Project
- Surf 'n' Turf
- Dolphyn ERM
- Caledonian Clean Energy Project
- Chapeloross
- Green hydrogen for Scotland
- H100
- Grangemouth to Granton future local transmission system
- Aberdeen Vision
- Hydrogen Bus Project
- 12 Hy Seas I III
- HySpirits
- 14 Hy TrEc
- 15 HyDIME
- 16 SWIFTH2
- HyFlyer
- Stornoway hydrogen refueler
- Hydrogen refuelling station

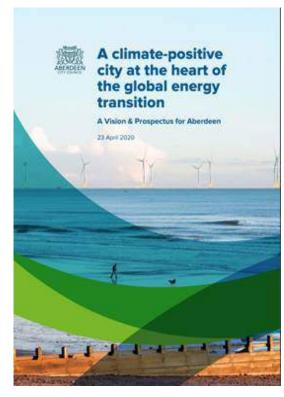
- 21) TEGA fuel cell
- Glasgow hydrogen bus project
- HyStorPor
- BIG HIT
- Methilltoune
- REFlex
 - Promoting Unst Renewable Energy
 - The Hydrogen Office
 - Levenmouth Community Energy Project
 - East Neuk Power to Hydrogen
 - Michelin Scotland Innovation Parc
 - Shetland Hub
 - 100% Green Hydrogen Hub
 - Hydrogen Accelerator
 - Aberdeen Hydrogen Hub
 - Cromarty Firth Hydrogen Hub
 - Energy Transition Zone
 - Outer Hebrides Local Energy Hub



WHY HYDROGEN IN ABERDEEN?







Aberdeen at the forefront of UK Energy Transition Energy Transition Zone and Aberdeen Harbour



Offshore Wind - North East Coast



Highly Skilled North Sea Workforce

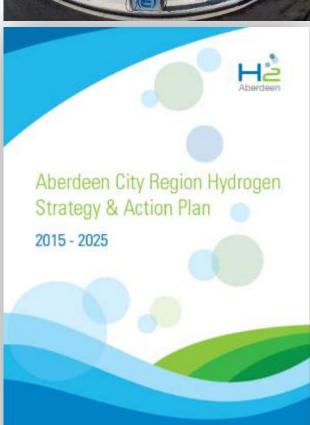


Hydrogen Strategy



















Hydrogen Mobility







£35M total investment



5 active projects



7 completed projects



Invaluable industry partners



85 hydrogen powered vehicles... with 17 more on the way

Hydrogen is here.



HYDROGEN BUSES











- Largest bus trial in Europe
- World's first hydrogen double decker buses



VEHICLES

















FUTURE VEHICLES









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Driving progress to a netzero future

Published: 06 Mar 2021 00:01
Part of: Energy, Environment and climate change

Hydrogen bus investment announced.

Funding of £4.5 million has been awarded to Aberdeen City Council for the introduction of 10 new hydrogen buses into the city's public transport fleet.



REFUELLING INFRASTRUCTURE





- 2 stations delivering 130 and 360kg/day
- 350 & 700 bar capable
- Refuel cars, vans, buses, large vehicles
- Both 'green tariff' stations



Aberdeen Hydrogen Hub





H2 ABERDEEN TIMELINE

2013 onwards



Hydrogen **Vehicle Options**

Funding from EU, UK and Scottish governments to trial FC cars, dual-fuel for large vehicles and FC range extended electric vans

Second HRS

2017: opening of ACHES - increased the hydrogen supply and offered hydrogen resilence for the City

Uses of Hydrogen

Centre at TECA with 3 fuel cells provide heating, cooling and power to the **Exhibition Centre and** 2 hotels

Explore Ways to Increase **Demand**

15+10 World's first hydrogen double decker buses

Discussions with NE organisations

Explore alternative hydrogen uses such as rail, heat, marine, industry

Commercial Supply **Aberdeen** Hydrogen Hub

Business case for commercial supply of green hydrogen

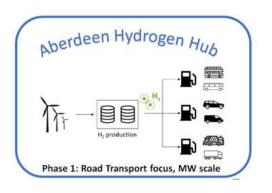
Discussions with market

Aberdeen **Hydrogen Bus** & Kittybrewster HRS

2015: 10 hydrogen buses and refuelling station

Innovative

2019: Onsite Energy





Phase 1 – provision of a resilient, cost effective supply of green hydrogen on a commercial basis to the market to support the existing and proposed transport projects.



JOINT VENTURE PARTNER

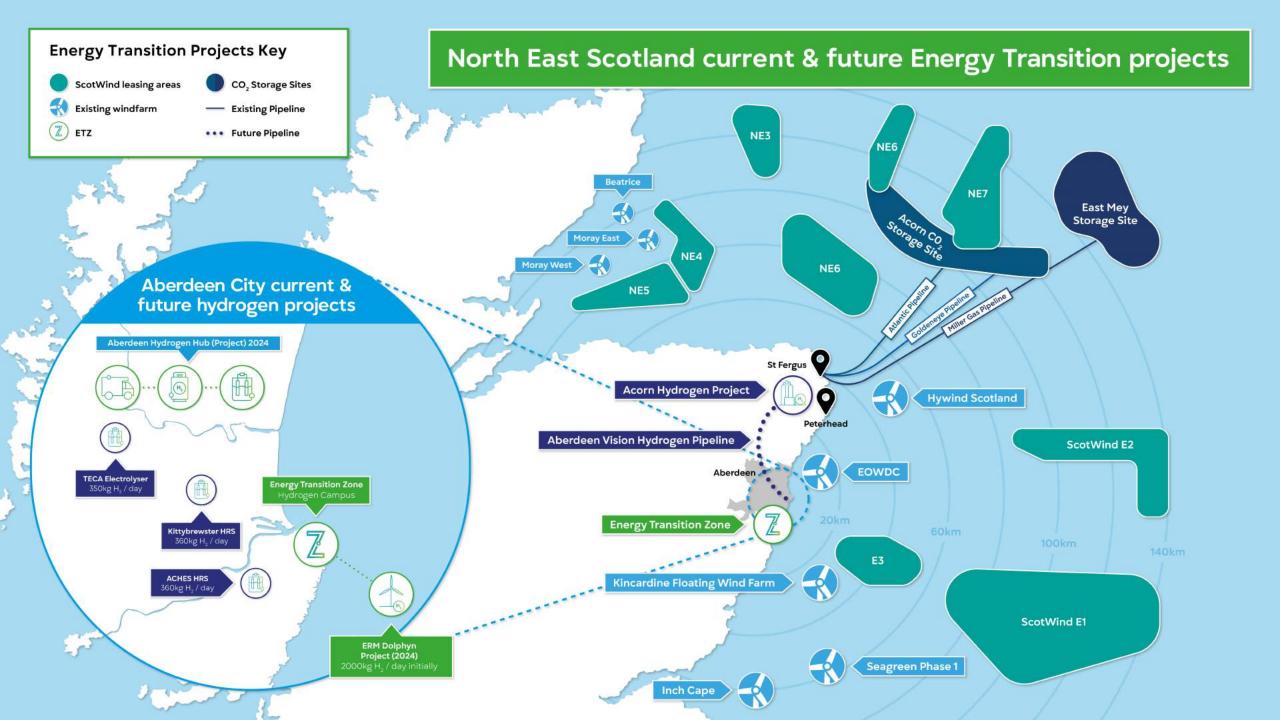
- On 3rd February 2022 bp announced a new Joint Venture company wholly owned by the Council and bp to deliver the Aberdeen Hydrogen Hub
- bp will build, operate and manage the Hub including:
 - Solar power array
 - Green Hydrogen production facility
 - Refuelling for public transport, trucks, cars and vans
- Scotland's first scalable green hydrogen production facility with first gas expected
 Q1 2024
- Inclusive growth by supporting hydrogen supply chain developments, skills and training and wider community benefits
- Potential for delivery of future phases could see production scaled up for export through larger volumes of hydrogen using offshore wind developments





Aberdee





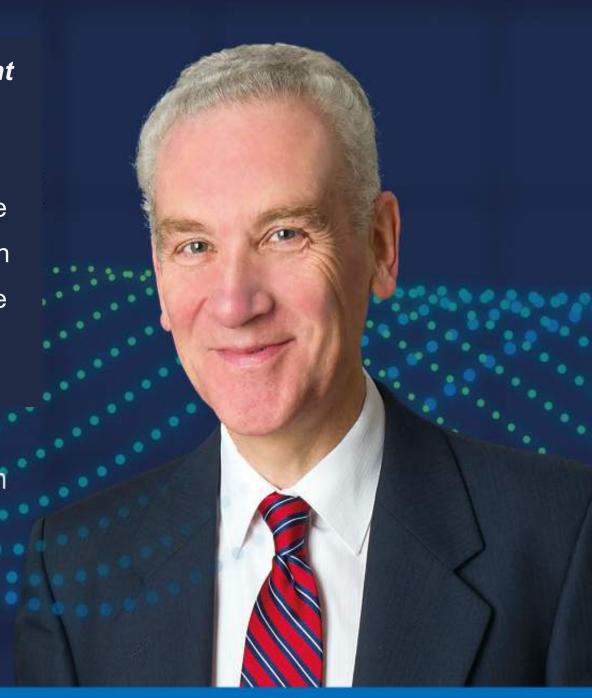


Aberdeen is already taking significant steps to capitalise on hydrogen, from infrastructure, to transport and skills, and I look forward to seeing the city continue to take a leading position within this market and ... set the pace for future generations."

Councillor Philip Bell
Aberdeen City Council Hyd

Aberdeen City Council Hydrogen Champion







Hydrogen is here.













H2 Aberdeen



