



Hydrogen
is here.

Louise Napier, Aberdeen City Council





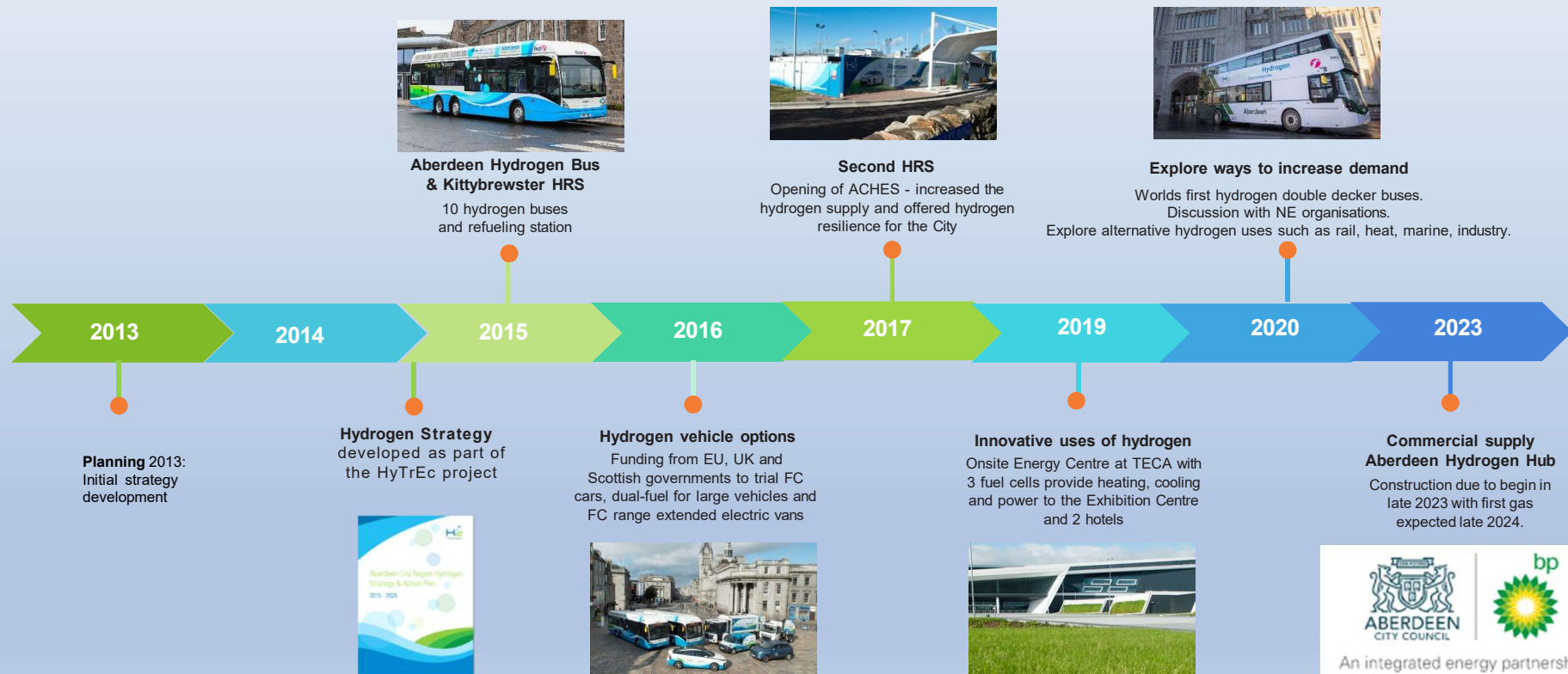
Why Hydrogen in Aberdeen

“... The Review also indicates that over 90% of the UK’s oil and gas workforce have medium to high skills transferability and are well positioned to work in adjacent energy sectors.”

UK Offshore Energy Workforce Transferability Review, RGU May 2021

H₂
Aberdeen

H2 Aberdeen Timeline 2013 - Present

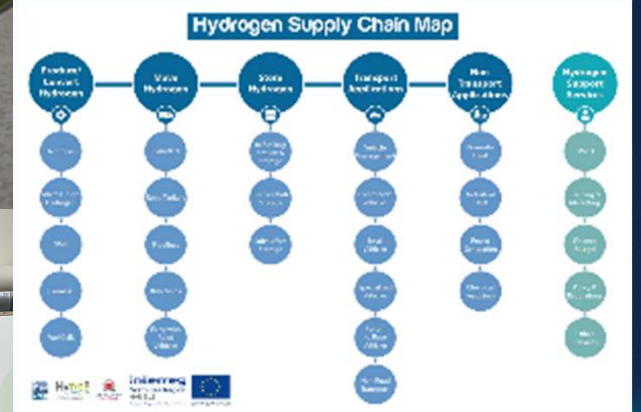




H₂
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Aberdeen City Region Hydrogen Strategy & Action Plan

2015 - 2025



Refuelling Infrastructure



ACHES



Kittybrewster

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

Hydrogen Mobility in Aberdeen



Aberdeen has one of the largest and most varied fleets of hydrogen vehicles in Europe.

Fuel Cell Electric Vehicle Trials



H2ICED® Vehicles

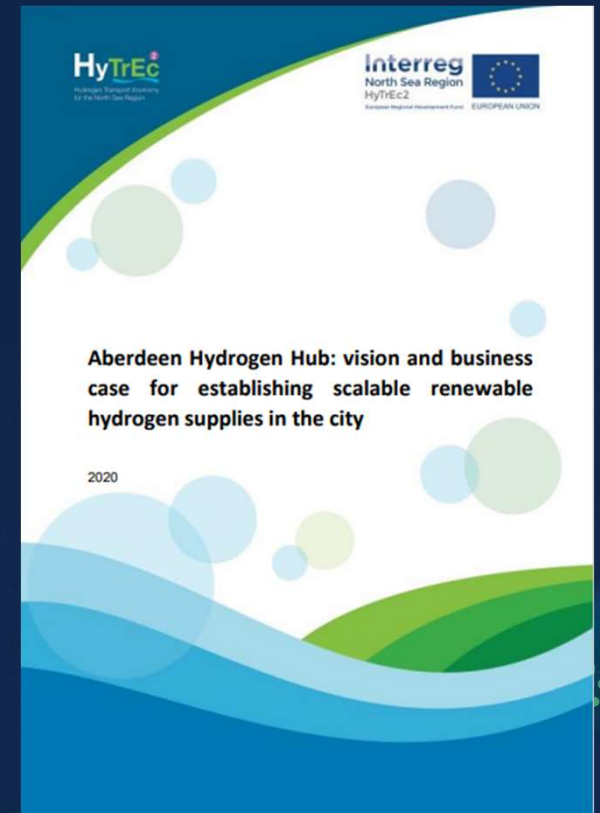


Dual-fuel retrofitting has the potential to save up to 40% of emissions compared to purely diesel vehicles



Aberdeen Hydrogen Hub

- Cost of hydrogen high ...and getting higher
- No connections to renewables
- Council not a fuel supplier!
- Ageing assets
- Lack of wider interest from market in taking on large scale production projects. What's next?
- As part of the Interreg NSR HyTrEc2 project investigated the potential business case for commercially available green hydrogen production
- How could we interest the market?



Aberdeen Hydrogen Hub



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.



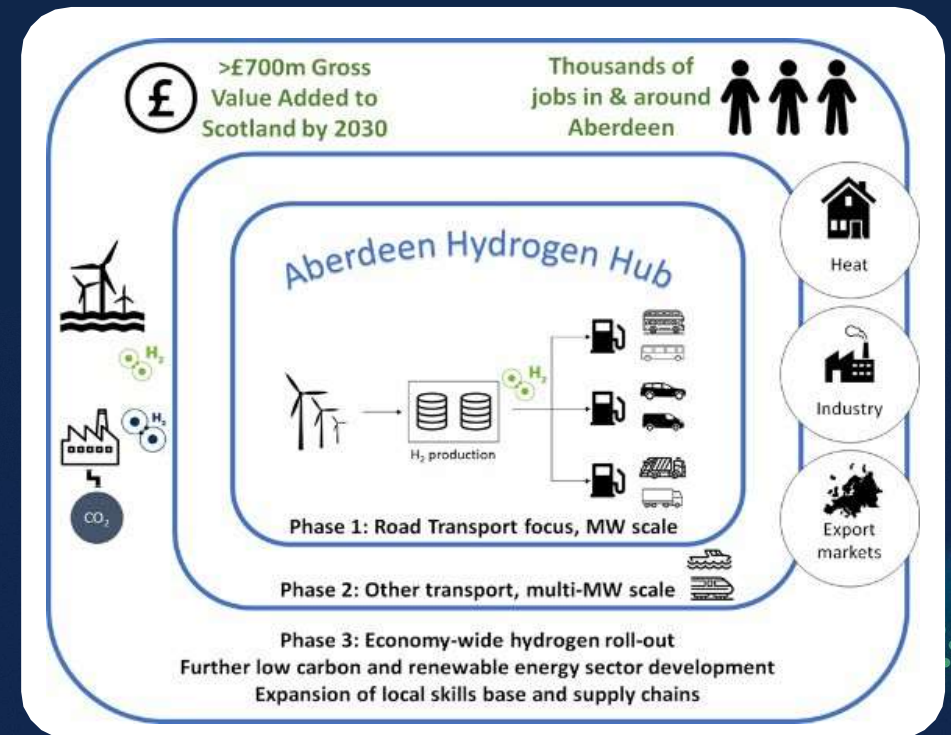
Phase 2

Expansion in the short to medium term to connect to larger volume utilisation of hydrogen – trains, trucks and marine.



Phase 3

Whole system approach to supply and demand. Innovation, skills and transition hub to support expansion of the local supply chain. Pursue the ambition for Aberdeen to be the centre of a brand new Energy production business, exporting H2 to the world.



Aberdeen Hydrogen Hub

- Approached the market using a Prior Information Notice, then undertook an Invitation to Participate in Dialogue
- Formed a Joint Venture company with bp in February 2022. bp will build, operate, manage and maintain the facility including:
 - Solar power array
 - Green hydrogen production facility
 - Refuelling for public transport, trucks, cars and vans
- Supporting h2 supply chain, skills, training and wider community benefits

[Homepage - Aberdeen \(bpaberdeenhydrogenhub.com\)](http://bpaberdeenhydrogenhub.com)



An integrated energy partnership

FUTURE OBJECTIVES:

Positioning Aberdeen to deliver on regional and national ambitions

Vehicle Delivery and Maintenance

ACC increasing the number of vehicles on the Council's fleet – opportunities for Centre of Excellence and maintenance of h2 vehicles in wider region. Depot adaptations for H2 and EVs

EU Project Delivery Legacy

Knowledge sharing, enabling local H2 supply to support other regions and working with neighbouring authorities and other public sector bodies for economies of scale

Facilitating future collaboration and projects

Identifying funding – such as Horizon Europe and supporting investors into the region, and working with other H2 producers as part of ETZ Ltd NESH2A

H2 Skills Development

Skills - Upskilling technicians for transport & plant H2 Economy and working with Energy Skills Partnership, ETZ Ltd, bp on skills development

Supporting delivery of the Aberdeen Hydrogen Hub Joint Venture

Wider energy transition deliverables, plus contributing towards SG ambition to become a net exporter of hydrogen to UK and EU markets

Feasibility Studies and Pilots

Rail, Heat and H2 Refuelling Footprint feasibility studies to understand potential demand generators



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