



Hydrogen  
is here.

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Aberdeen City Council



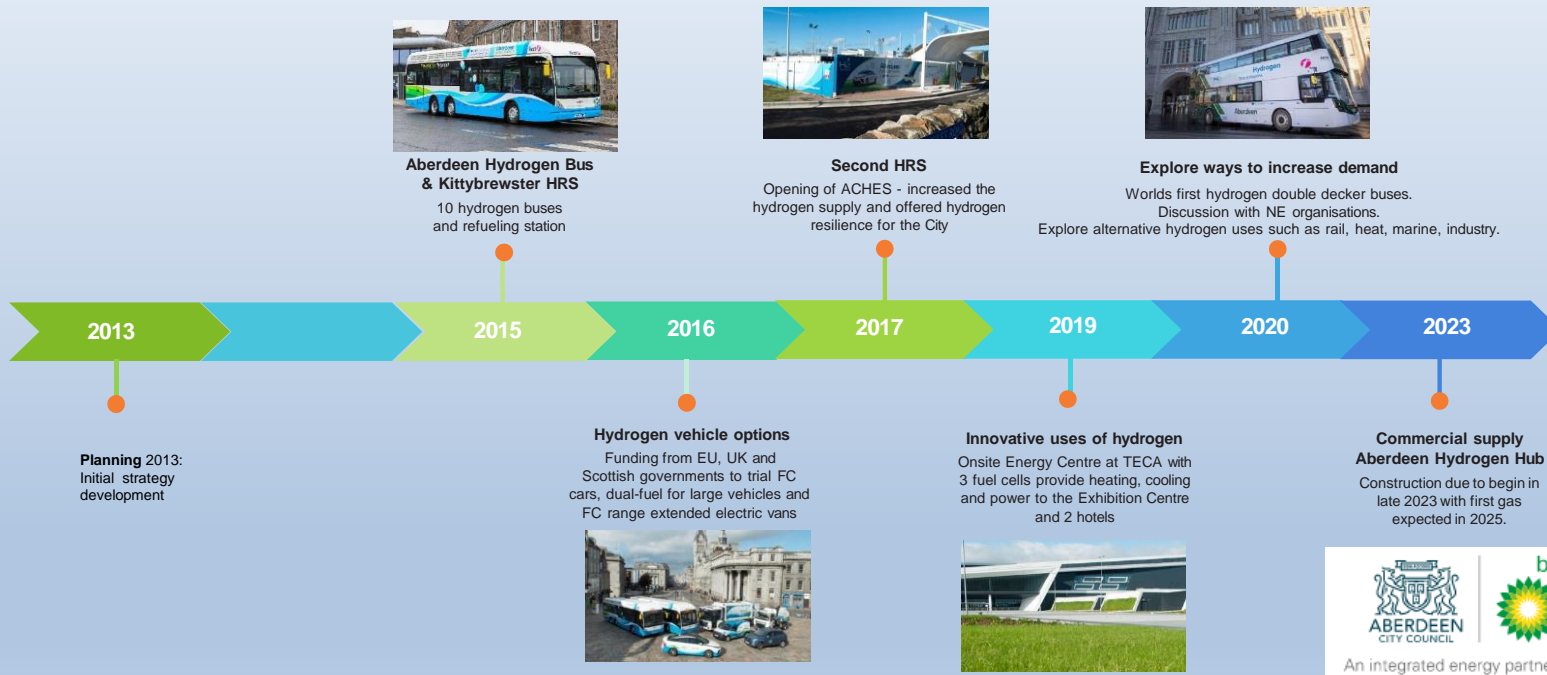
# Policy Background

Hydrogen policy and principal funding in Northeast Scotland comes from both national and regional government to facilitate local government delivery

- ACC delivers UKG and SG aspirations to the benefit of the Aberdeen region
- Historically, EU strategy/funding enabled many of the region's early H2 projects
- Hydrogen projects in the region to date have been designed to
  - deliver government policy
  - support the aspiration of 'energy transition' to a post-'oil and gas' energy sector



# H2 Aberdeen Timeline 2013 - Present



**Aberdeen Hydrogen Bus & Kittybrewster HRS**  
10 hydrogen buses and refueling station



**Second HRS**  
Opening of ACHES - increased the hydrogen supply and offered hydrogen resilience for the City



**Explore ways to increase demand**  
Worlds first hydrogen double decker buses.  
Discussion with NE organisations.  
Explore alternative hydrogen uses such as rail, heat, marine, industry.

2013

**Planning 2013:**  
Initial strategy development

2015

**Aberdeen Hydrogen Bus & Kittybrewster HRS**  
10 hydrogen buses and refueling station

2016

**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



2017

**Second HRS**  
Opening of ACHES - increased the hydrogen supply and offered hydrogen resilience for the City

2019

**Innovative uses of hydrogen**  
Onsite Energy Centre at TECA with 3 fuel cells provide heating, cooling and power to the Exhibition Centre and 2 hotels



2020

**Explore ways to increase demand**  
Worlds first hydrogen double decker buses.  
Discussion with NE organisations.  
Explore alternative hydrogen uses such as rail, heat, marine, industry.

2023

**Commercial supply Aberdeen Hydrogen Hub**  
Construction due to begin in late 2023 with first gas expected in 2025.



# Aberdeen Hydrogen Bus Project



- Largest bus trial in Europe
- 10 fuel cell buses
- £1.2m per bus
- Rehomed for training

# JIVE (Joint Initiative for hydrogen Vehicles across Europe)



## World's First Hydrogen Double Decker Buses

- The world's first hydrogen double deck bus – manufactured in Ballymena, Northern Ireland by Wrightbus
- In service with operator First Bus from January 2021
- A current fleet of 15 with 10 additional buses due to be delivered

# Hydrogen Mobility in Aberdeen



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

# 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



## 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.



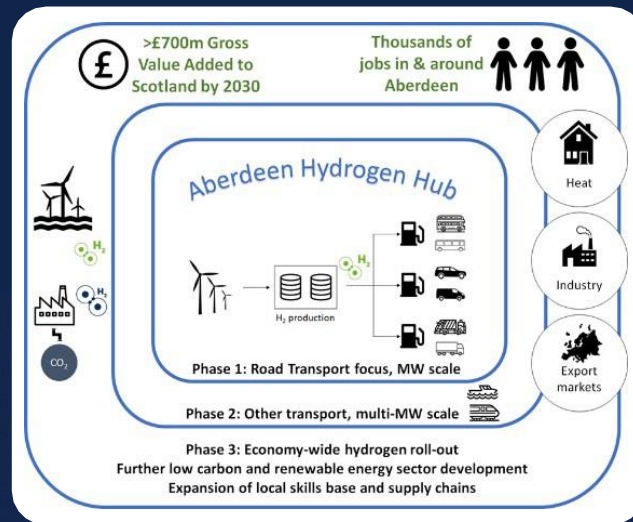
## Phase 2

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 H<sub>2</sub> to the world.







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