



# The Aberdeen Hydrogen Bus Project

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Aberdeen City Council

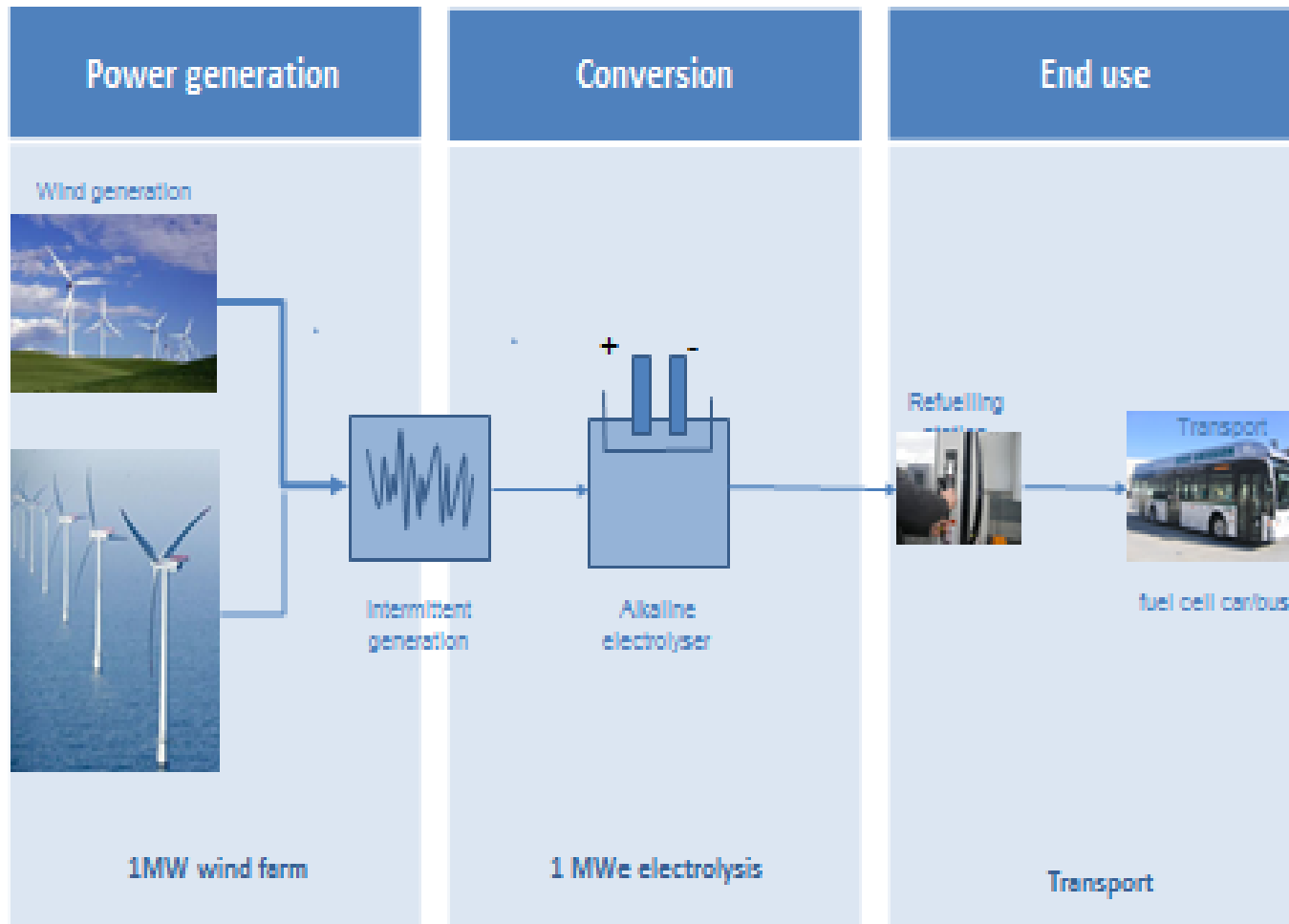


- The project
- What will the project do for Aberdeen?
- Who is involved?
- How is the project funded?
- Where is the project currently?
- Next steps.....

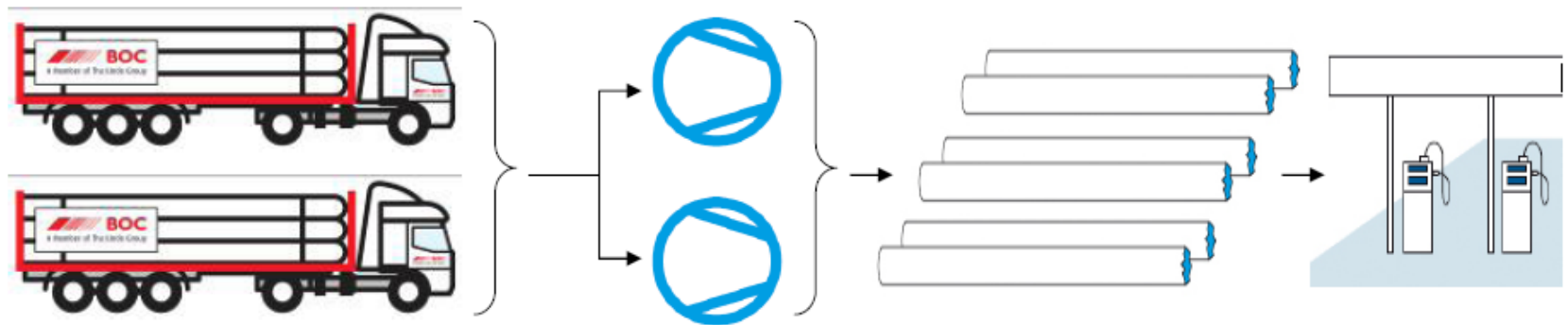
# Project Overview



- Operate 10 hydrogen fuel cell buses over a 3 year project period
- Build a state of the art hydrogen re-fuelling station using cutting edge technology
- Prepare a maintenance facility where the buses can be maintained
- Use hydrogen storage as a means of managing electrical grid constraints



# Re-fuelling

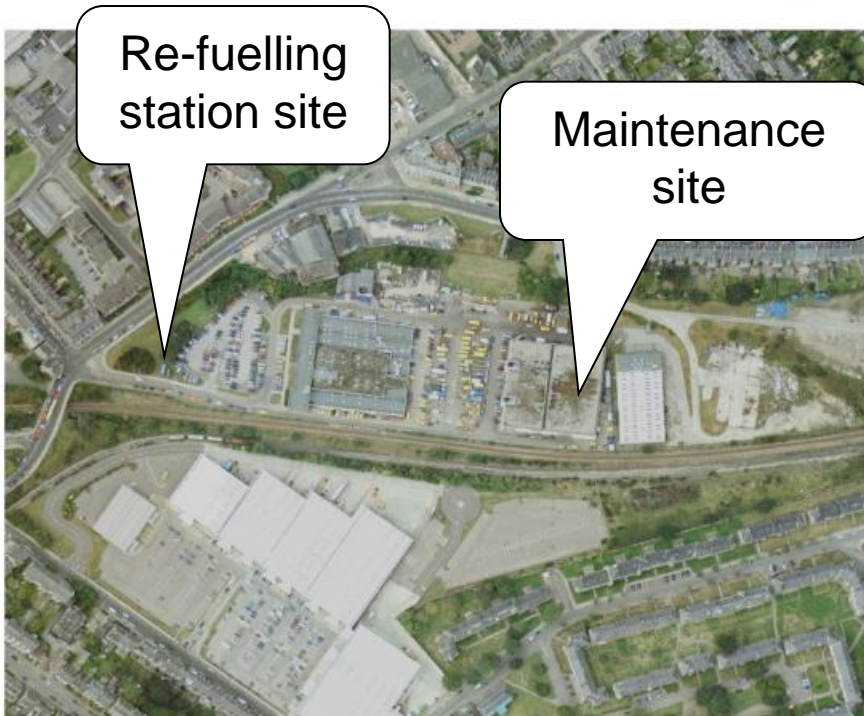


2 x 228b / 366 kg Tube Trailer Bays  
& Associated Decanting Systems

2 x IC 90 Compressors

~270kgs / 500b  
Static Storage

2 x Fast Flow H2  
Dispensers



### **Kittybrewster:**

- Council owned site
- Currently used for Council waste & fleet vehicles
- 24 hour security
- City centre location
- Accessible
- Meets bus operator & BOC requirements



**ABERDEEN**  
CITY COUNCIL



The Scottish  
Government

**Aberdeen**  
HydrogenBusProject



 **Scottish and Southern**  
Energy  
Power Distribution

**First** 

**elementenergy**

 **Stagecoach** Bluebird

**BALLARD**

**areg**   
Aberdeen Renewable Energy Group

  
Scottish Enterprise

**VANHOOL**

  
SEVENTH FRAMEWORK  
PROGRAMME

  
TRANSPORT  
SCOTLAND  
The Scottish Government

 **BOC**  
A Member of The Linde Group

Technology Strategy Board  
Driving Innovation

  
**New Energy World**  
JU  
fuel cells & hydrogen for sustainability

# Project funding



- £20 million budget
- Contributions from:
  - EU (Hytransit, Highvlocity projects)
  - The Scottish Government
  - Scottish Enterprise
  - The UK Technology Strategy Board
  - SSE Low Carbon Networks fund
  - SGN Innovation funds
  - Aberdeen City Council
  - First
  - Stagecoach
  - BOC

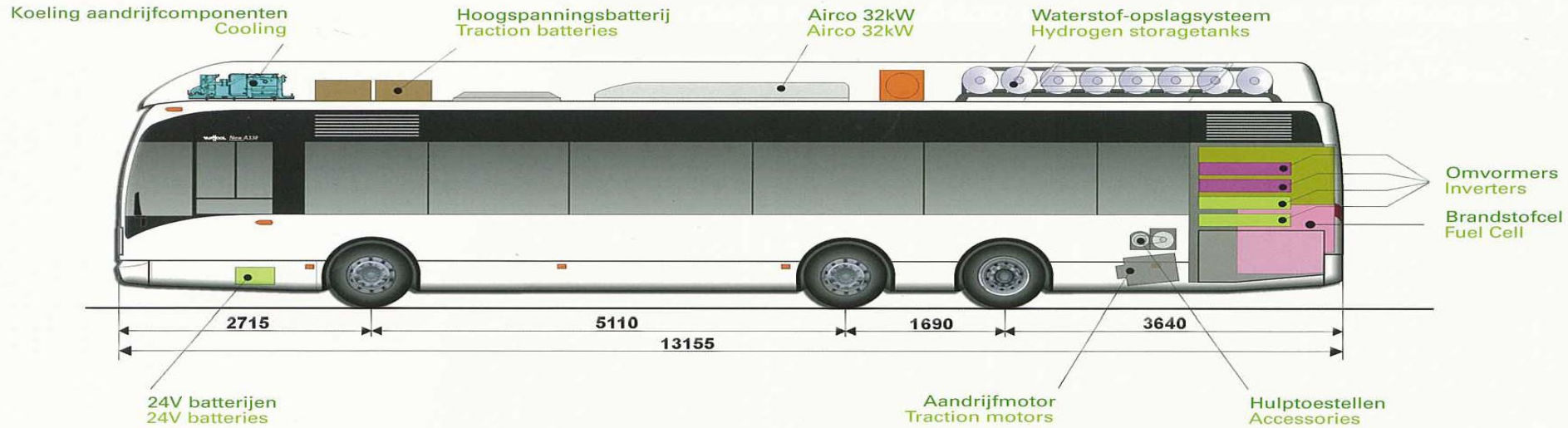


# Why Aberdeen



- City well placed to host a demonstration project – the energy city
- Opportunity to address grid balancing / intermittency
- Improvements to air quality
- Contribute to Scotland's green transport targets
- Skills & Expertise

# HYDROGEN BUS (1)





# The project today



- Contracts
- Planning permissions
- Operational planning
- Procurement
- Marketing & Communications
- Funding project deliverables





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