

ARUP



NI Water Hydrogen and Oxygen Demonstrator Project

Partnerships for the Goals



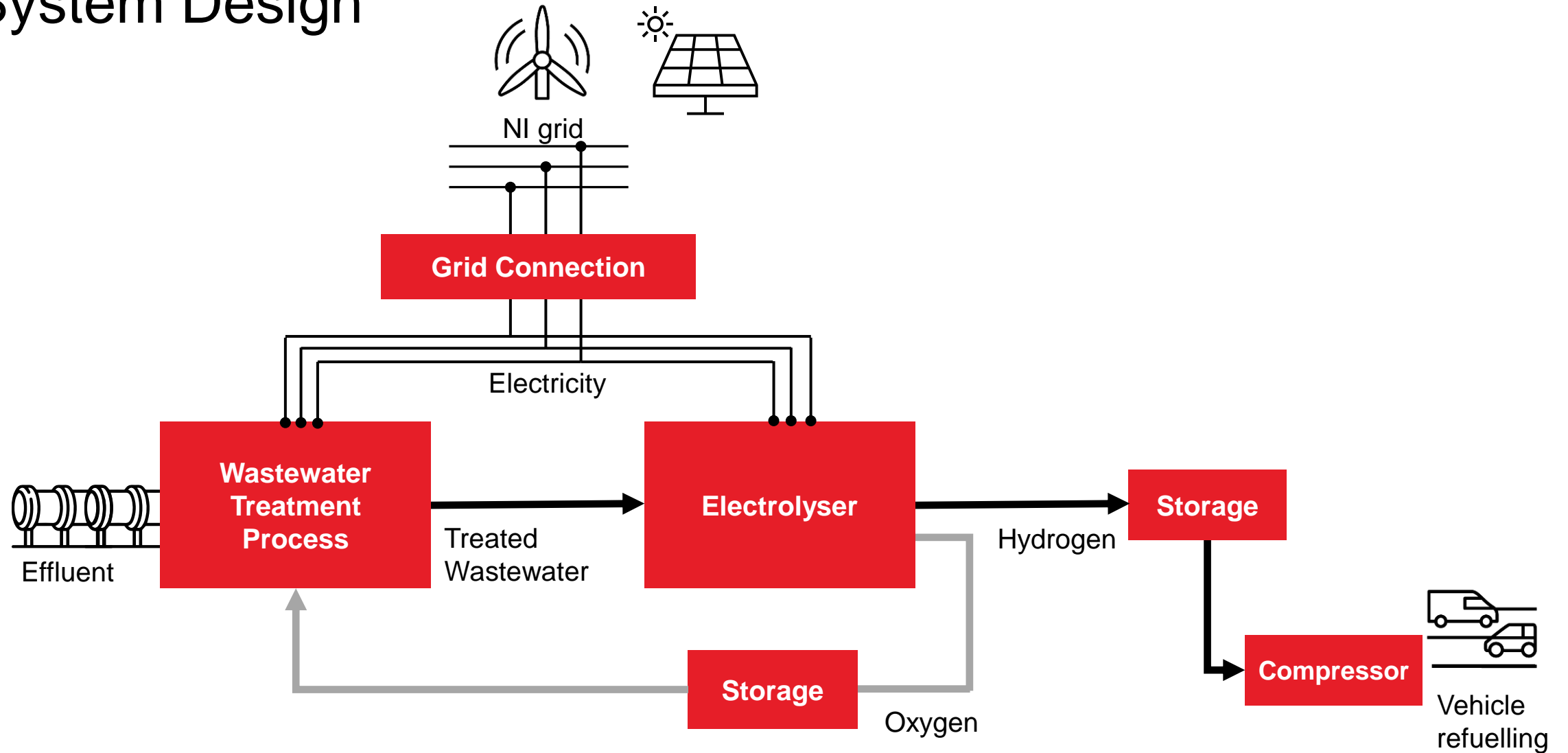
Pete Gray (Associate Director, ARUP)

May 2024 UK Hydrogen Innovation Opportunity Launch (ECOS Hub, Ballymena)



Decarbonise transport

System Design





Electrolyser installed at Kinnegar Wastewater treatment works

GASEOUS HYDROGEN

How did we deliver this?

NIW procured a Strategic Partnering Agreement

Strategic Partners



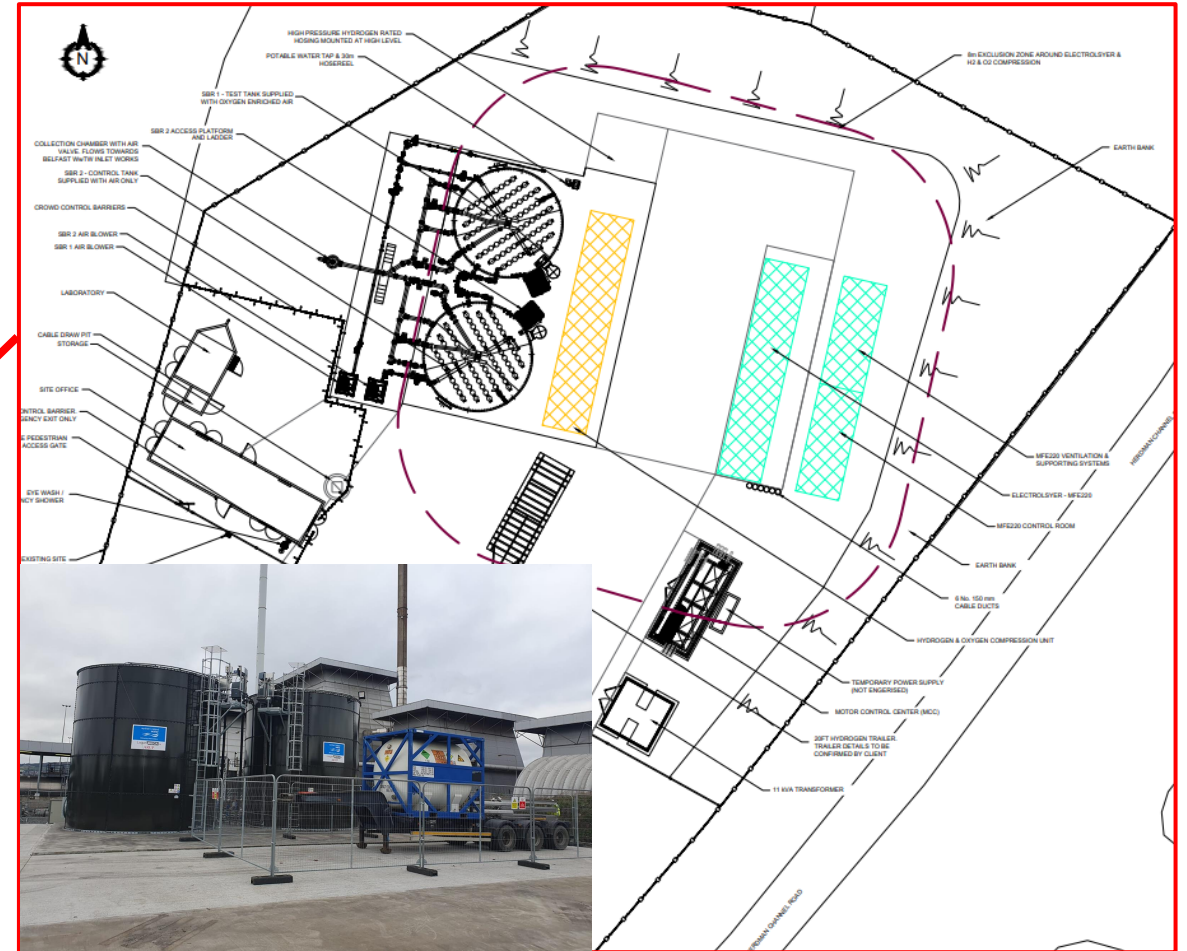
Client Side Advisers



Client



Why Belfast WwTW?



Stakeholder Engagement and Health & Safety



Internal NI Water Stakeholders

Stakeholder Engagement and Health & Safety



Permitting

Stakeholder Engagement and Health & Safety



Capital
Delivery



Belfast
City
Council



Health &
Safety
Executive
Northern
Ireland

Operations
– Plant &
Area
Managers



Northern
Ireland
Environ-
ment
Agency



Northern
Ireland
Fire &
Rescue
Service



Head of
Waste-
water &
Head of
M+E



Northern
Ireland
Electricity

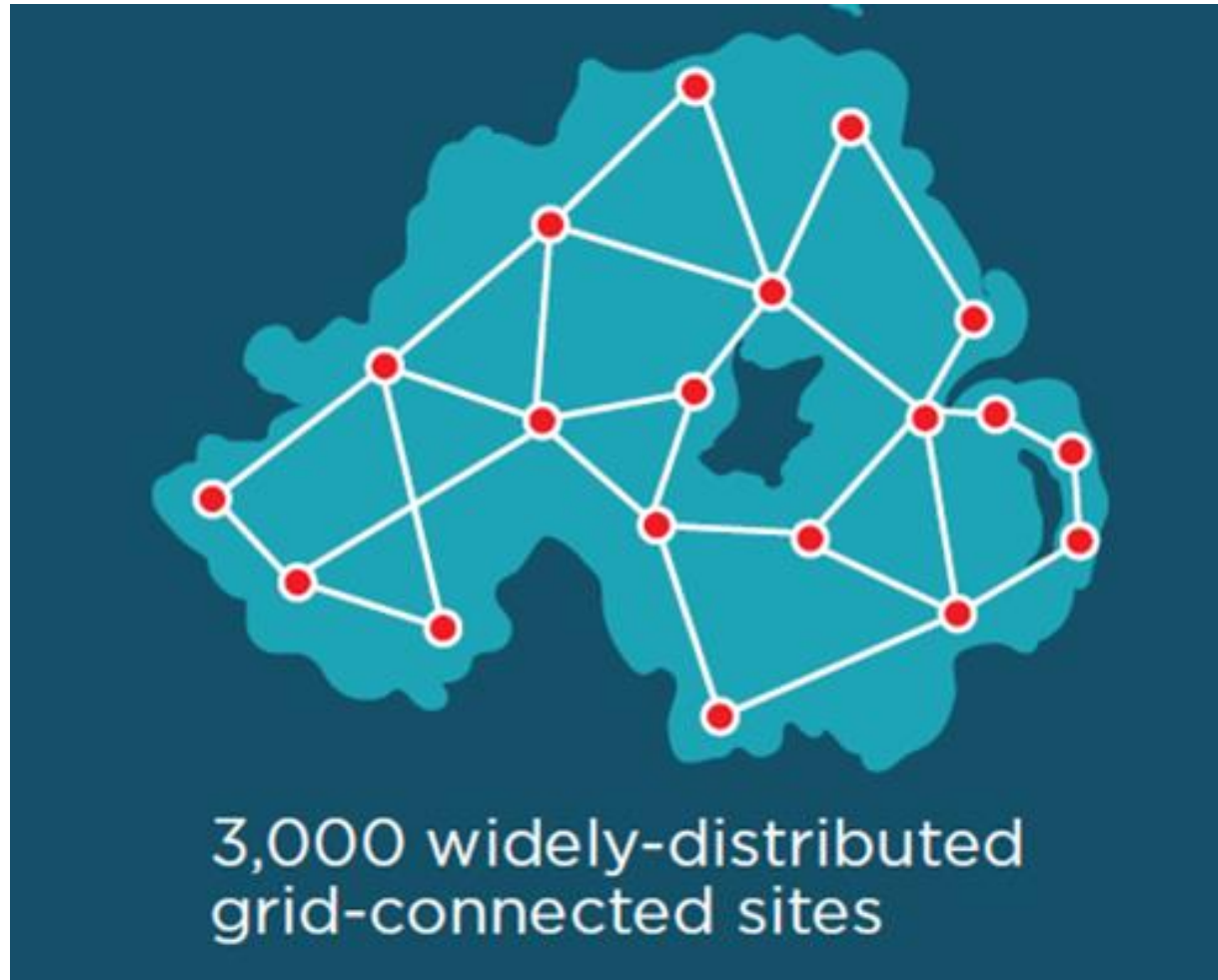


Internal
Reporting

Progress



Next Steps



Government + Public Sector



The
**Strategic
Investment
Board**



**Belfast
City Council**



**Northern Ireland
Fire & Rescue Service**

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CONTROLLING RISK TOGETHER



Government + Public Sector + Private Industry



Belfast
City Council



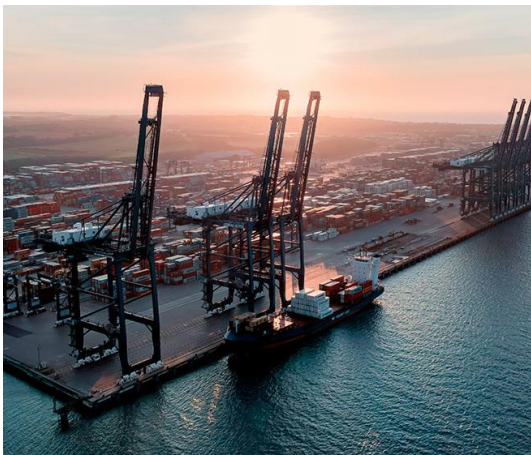
Northern Ireland
Fire & Rescue Service



17 PARTNERSHIPS
FOR THE GOALS



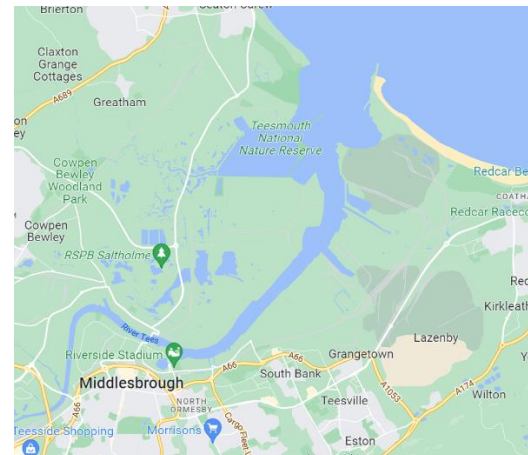
Other UK hydrogen project expertise



- Felixstowe Port
- Green Hydrogen
- Scottish Power



- Hydrogen Production Facility
- Renewable Energy Systems Ltd



- Hydrogen Production & Fuel Switching
- Kellas Midstream



- Aberdeen Tri-modal H2 Refuelling
- Aberdeen City Council

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