

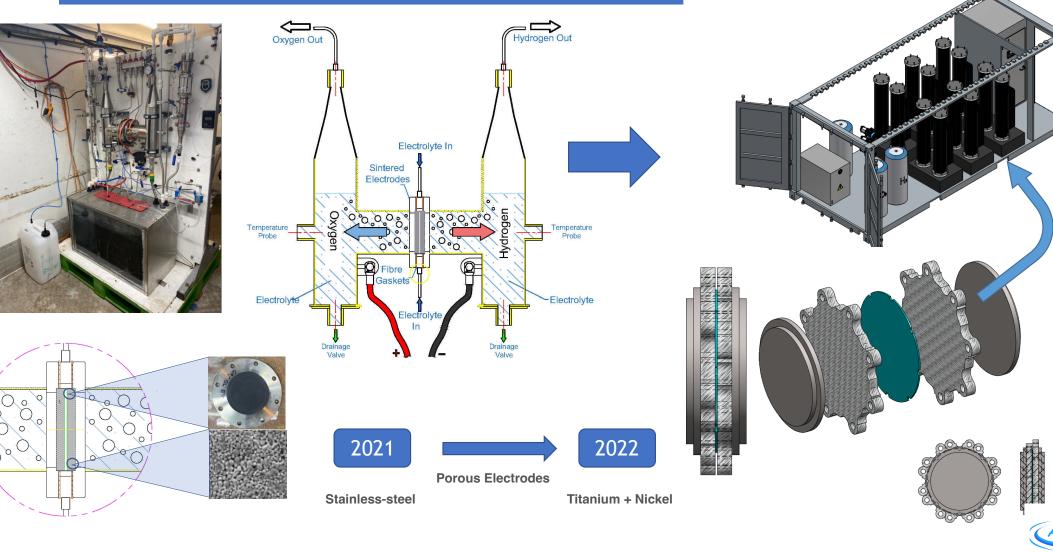


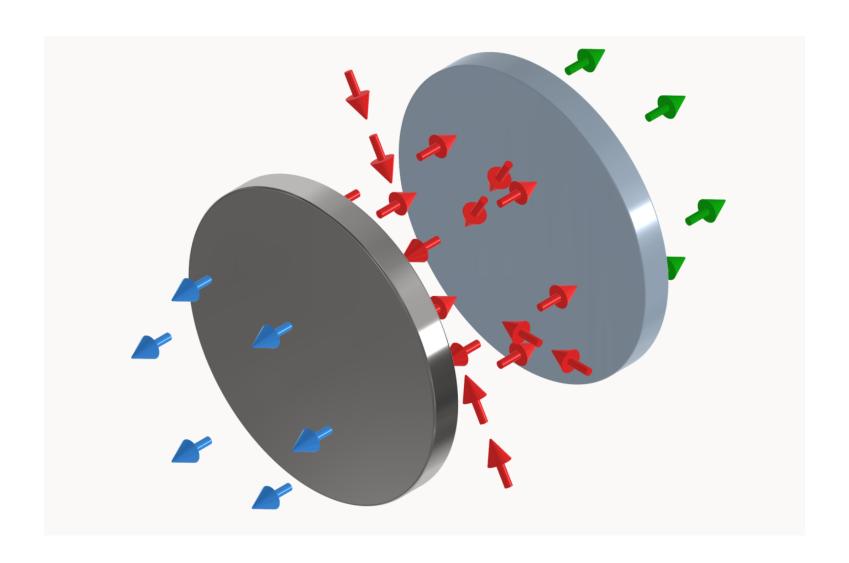
## AqGas Group Ltd

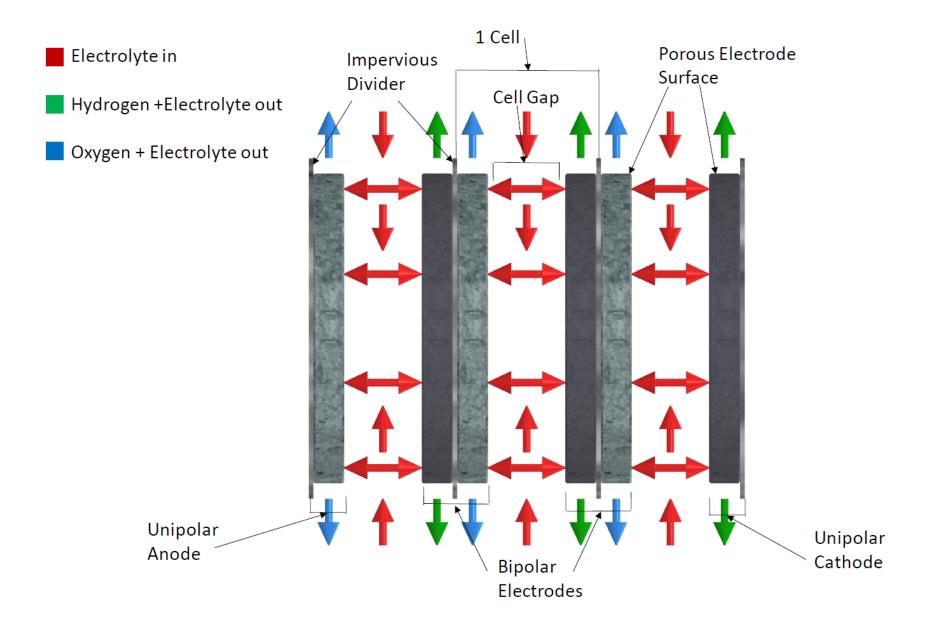
Background information

Project: <u>Ultra High Pressure Electrolyser</u>

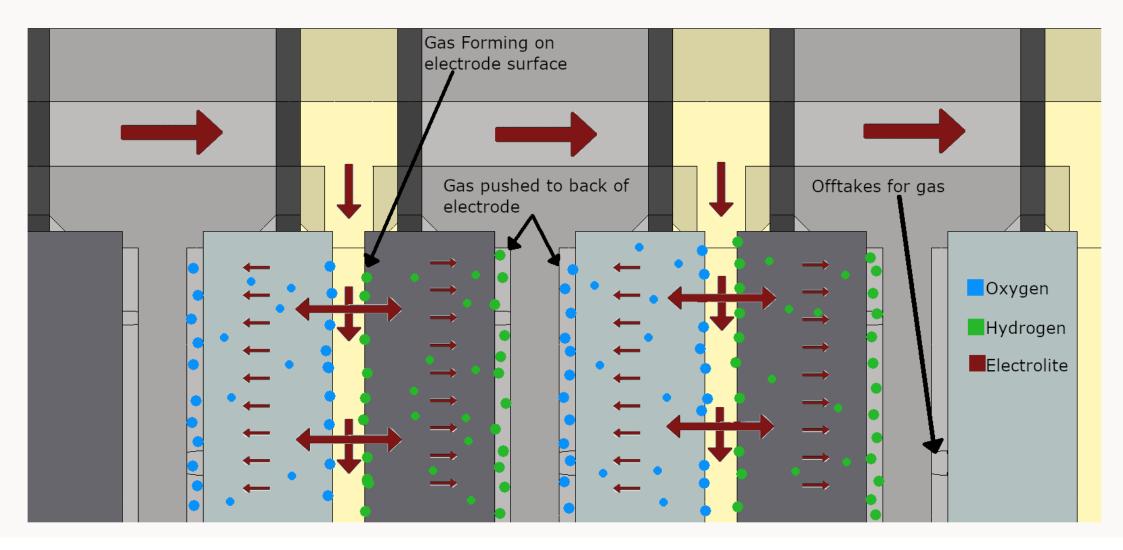
## Laboratory Cell to Automated Containerised Stack

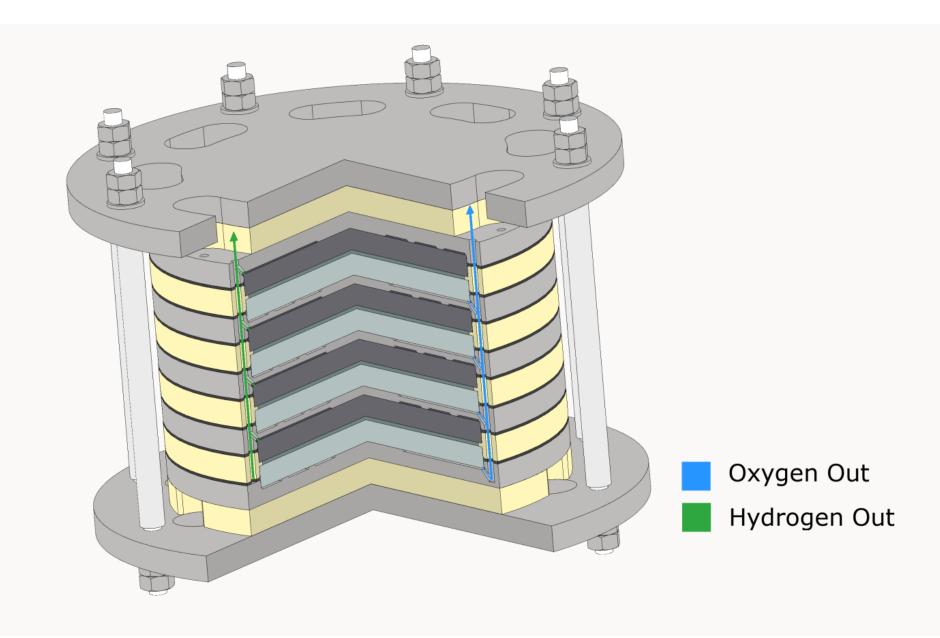


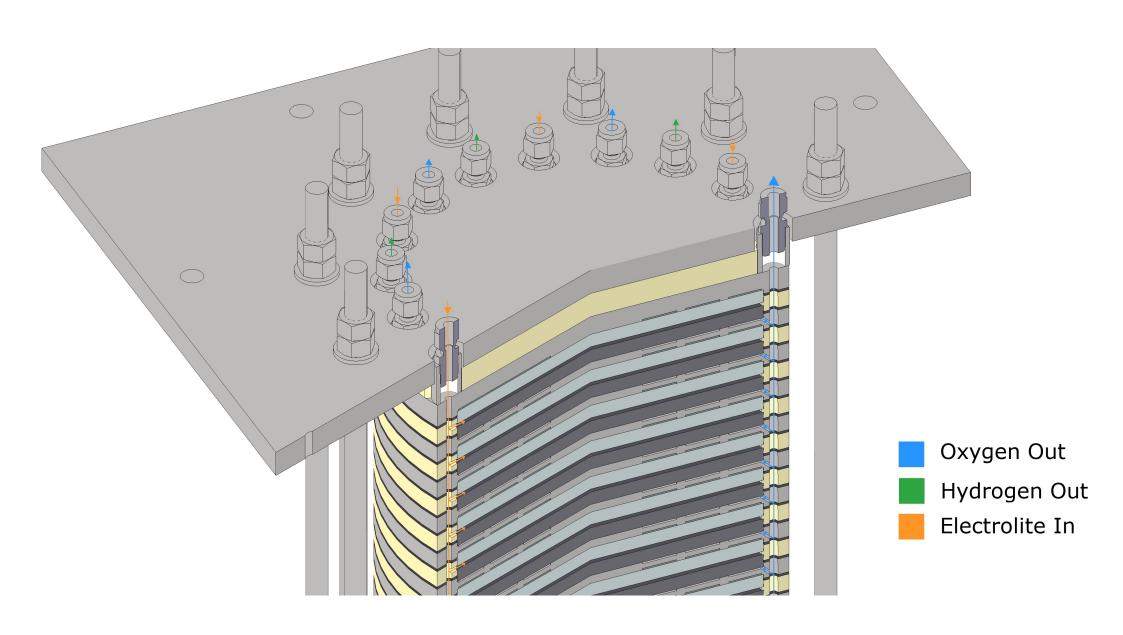




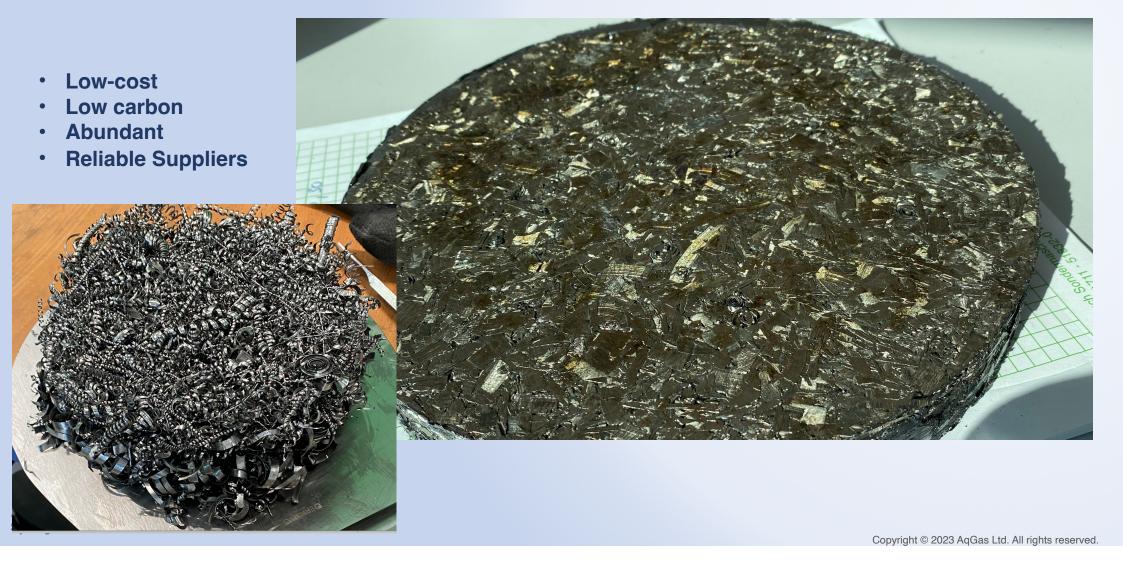
Flow Through Electrodes - Electrolyte pumped in to cell gap = pressure drop across the electrode







## Electrode Manufacturing





Titanium Cathode



BiPolar Electrode Holder Stainless Steel Impervious Divider



Nickel Anode



## Prioritised technologies for project scoping



- 1. Compressors
- 2. Existing pipeline infrastructure
- 3. Compressed storage tanks
- 4. Salt caverns
- 5. New pipeline infrastructure
- 6. Tube trailers



- 1. Balance of Plant
- 2. Autothermal Reformer (ATR)
- 3. Plant management software
- 4. PGM catalysts
- 5. Subsurface small-scale storage
- 6. Hydrogen refuelling stations

- 7. Valves (Transmission)
- 8. Meters (Transmission and distribution)
- 9. Sensors



- 1. Ammonia conversion
- 2. Liquid hydrogen conversion, storage tanks, pumps and tankers
- 3. Hydrogen purification
- 4. Aquifers, hard rock lined caverns, and depleted gas fields

- 5. Wastewater treatment
- 6. Solid state storage
- 7. Liquid organic hydrogen carriers
- 8. Seawater desalination and direct electrolysis



