

# Hydrogen Capabilities



For over 70 years, HIFraser have provided manufacturing and engineering solutions to a number of pivotal national projects. Our end to end capability to design, source, procure, build and sustain allows us to tailor the right engineering and technical solutions to our customers' difficult problems in the most complex of environments. We have the technical expertise and experience to provide end to end solutions for the production of green hydrogen for a variety of applications.

## CAPABILITIES

End to end Hydrogen Solutions, including:

### Water Electrolyser

Using proven PEM electrolyser technology  
Adapted locally and manufactured in Australia to meet Australian standards



### Compressor Units

Gas Compressors 1,000 - 120,000psi  
Flow rates 1 - 350scfm  
Single Stage, Multi-stage, and Hybrid machines

### Oxygen & Hydrogen Filling and Storage Systems

Bespoke gas storage solutions  
Capacity from 0.5L – 300L  
Pressure 100 – 700 bar

### Deployable Solutions

Containerised mobile refuelling modules  
Mobile compression and storage modules

### Hydrogen Dispensers for refuelling

Dispensing at 35MPa & 70MPa  
Low power consumption  
Built in safety functions  
Standard Payment facilities available



### Injection & Metering Skids and Components

Meter and supply hydrogen to existing natural gas piping networks

## INDUSTRIES

- Green Energy
- Oil & Gas
- Defence
- Transport
- Aerospace

## DIFFERENTIATORS

- Collaborative agreement with European technology provider to manufacture and maintain electrolysers locally
- Reputation built on delivering advanced technical and engineering expertise to find customised solutions to complex problems
- End to end capability to design, source, procure, build & sustain provides a turnkey service
- Multiple office locations for on-going service and support nation-wide
- Specialist procurement and OEM integration
- Access to a wide range of hydrogen products and services through collaboration with other HIFraser Group companies – Pipeline Actuation Control, Aquip Systems and Eastern Automation

## PIVOTAL PROJECTS

Full service, through-life projects expertly executed in full and on time, including:

Hydrogen Pilot Project in conjunction with our sister company Pipeline Actuation Control (PAC)

Discover this and more at

<https://www.hifraser.com.au/pivotal-projects/>



## KEY PARTNERS



NORMAN FILTER COMPANY



## CERTIFICATIONS

We hold a range of accreditations and certifications that meet various international standards.



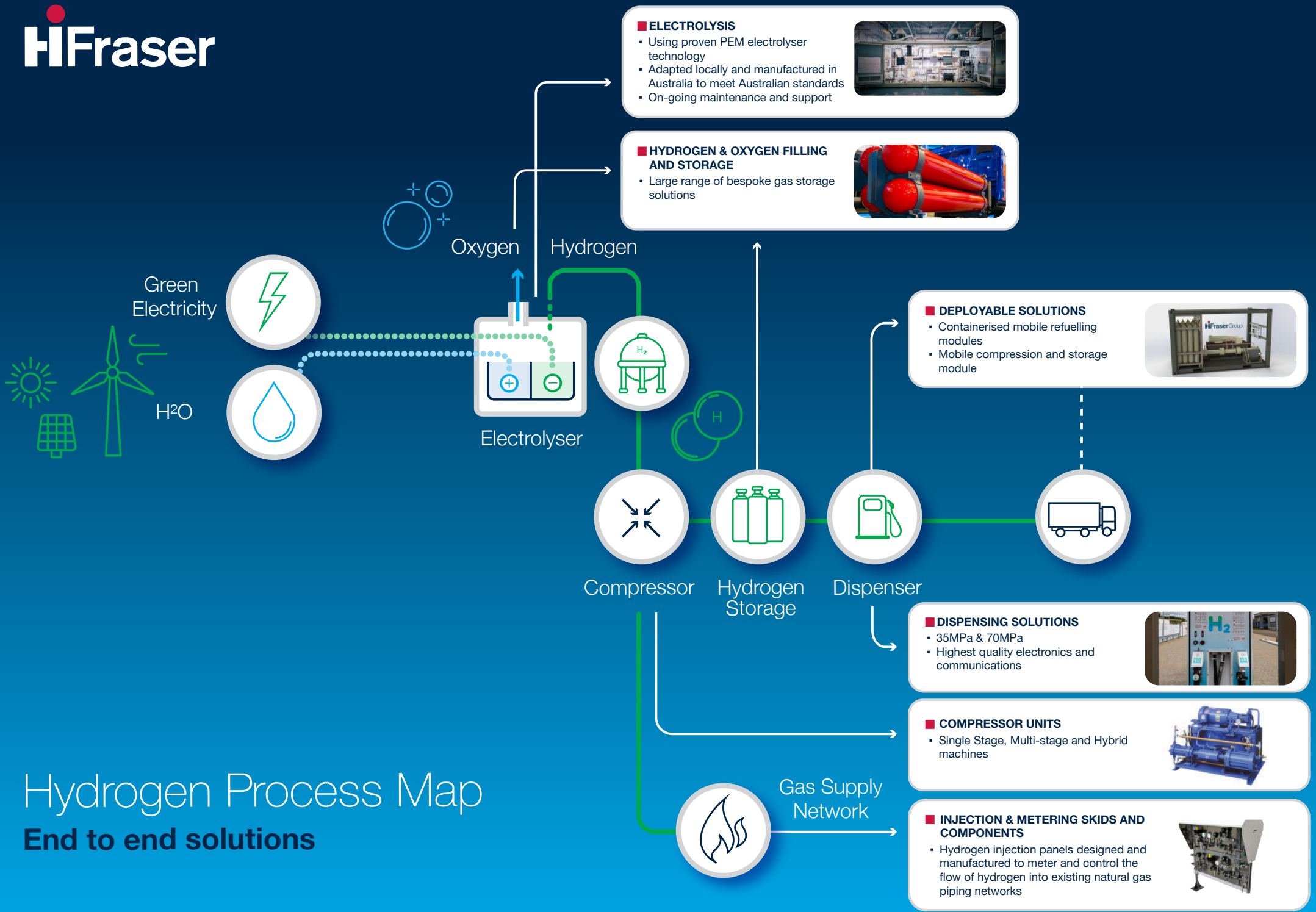
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**ELECTROLYSIS**

- Using proven PEM electrolyser technology
- Adapted locally and manufactured in Australia to meet Australian standards
- On-going maintenance and support




**HYDROGEN & OXYGEN FILLING AND STORAGE**

- Large range of bespoke gas storage solutions



**DEPLOYABLE SOLUTIONS**

- Containerised mobile refuelling modules
- Mobile compression and storage module




**DISPENSING SOLUTIONS**

- 35MPa & 70MPa
- Highest quality electronics and communications



**COMPRESSOR UNITS**

- Single Stage, Multi-stage and Hybrid machines



**INJECTION & METERING SKIDS AND COMPONENTS**

- Hydrogen injection panels designed and manufactured to meter and control the flow of hydrogen into existing natural gas piping networks



## Hydrogen Process Map

### End to end solutions