



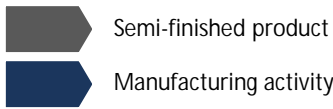


1. Hydrogen is a clean fuel utilised in 'hard to abate' applications where other decarbonisation options are limited
2. Unlike hydrocarbon energy, hydrogen energy is a conversion rather than an extraction business and there is more widespread resource availability<sup>2</sup>.



- - PEM electrolysers
  - Onboard hydrogen storage tanks

- KEY:**
- PEM** Polymer Electrolyte Membrane
- CCM** Catalyst Coated Membrane
- GDL** Gas Diffusion Layer
- MEA** Membrane Electrode Assembly
- PFSA** Perfluorosulfonic Acid
- PET** Polyethylene Terephthalate
- ePTFE** expanded Polytetrafluoroethylene
- MPL** Microporous Layer
- CEM-unit** Compressor Expander Motor unit
- ECU** Electronic Control Unit



Reprocessing of fuel cell materials  
 Recycled Materials



1. Challenges in hydrogen include both trade measures and wider barriers to uptake
2. There is a need for interoperability of different hydrogen standards, since there already 19 certification schemes
- 3.
4. Demand for relevant technologies currently outstrips supply, significant gaps remain for:

1. Trade policymakers have a role to play in bridging the gaps between different policy communities in advance of environmental objectives
2. We must consider carefully the role we play in signposting