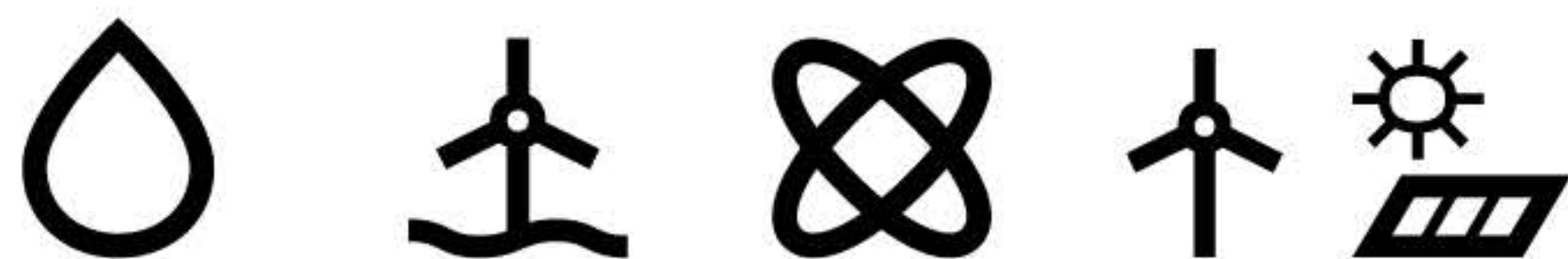


Energy sources for fossil-free hydrogen production



Hydrogen production



H₂
Electrolyser

Storage



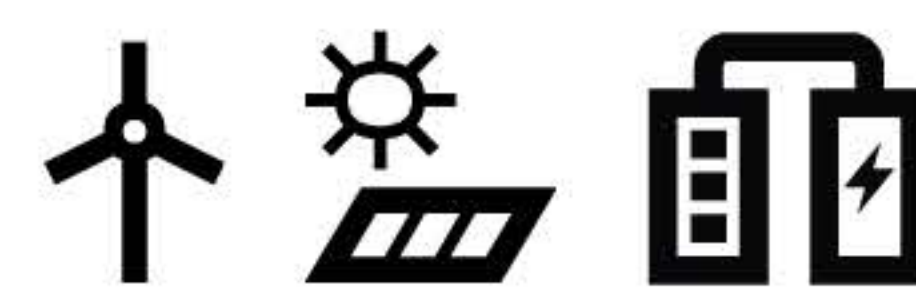
Caverns

Dedicated on- and offshore hydrogen facilities



H₂

Dedicated offshore hydrogen farms with electrolysers



H₂

Hybrid energy parks with electrolysers

Industry sector

Fossil-free hydrogen is used both as an input and as a facilitator in industrial processes, enabling the replacement of fossil fuels (e.g. gas) and materials (e.g. coal).

Steel



Fossil-free steel

Chemical



Synthetic products like carbon fibre, plastics and textiles

Refinery



For example biodiesel, synthetic aviation fuel and replacing fossil-based hydrogen in conventional fuel production

Agriculture



Fertilizers made of fossil-free hydrogen-based ammonia

Transport sector



For example fuel cells in heavy duty vehicles powered by hydrogen and fossil-free ammonia used as fuel for shipping

Heat sector



Hydrogen replaces natural gas in combined heat and power plants