"Powerfuels Technology and Components from MHI – Supported by Japan Hydrogen Strategy"

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* This table is not exhaustive. It lists only companies and products related to hydrogen business





- Large amount of primary energy is required for hydrogen production
- Low energy density requires heavy transportation and storage

2. Manufacturing, Transportation and Storage



3. Creation of Stable Demand

- Stable demand is essential to reduce hydrogen costs
- Hydrogen power generation and decarbonization of industrial energy will create stable demand







Power sector will gradually increase the proportion of clean fuel following the global trend of decarbonization, and growth of the supply chain.



Horizon 1 (medium term)

Co-firing with CO2-free hydrogen and ammonia

Horizon 2 (long term)

100% H2-firing and CCUS with net zero CO2 emissions

Horizon 1 (medium term)

Fossil-H2 with CCUS will initiate and accelerate adoption of hydrogen as a fuel

Horizon 2 (long term)

With innovation and significant cost reduction, renewable H2 will be the main source of hydrogen



Capabilities across the Hydrogen Value Chain



MHI's Global Hydrogen Projects : Developing H2 hubs as starting points





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