

Hydrogen Production by Coal Gasification

September 2019

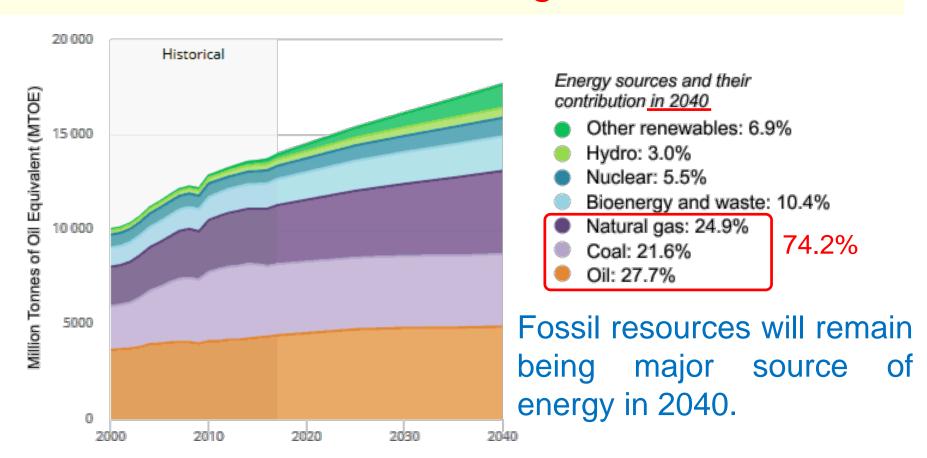
Masayoshi Kitamura Electric Power Development Co., Ltd. (J-POWER)

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Global Energy Context



Need for clearer view of using fossil resources with low to near-zero emitting manner

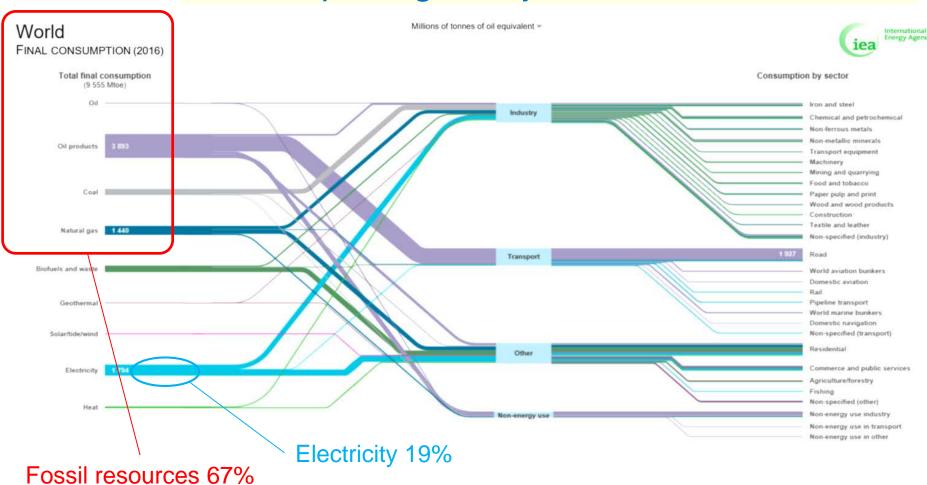


Global Primary Energy Demand by Source

Global Final Energy Consumption



Fossil resources dominate in final energy consumption globally



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Source: IEA Statistics on the WEB

*1) Final energy consumption

Towards Cleaner Energy Society





Hydrogen will become a solution

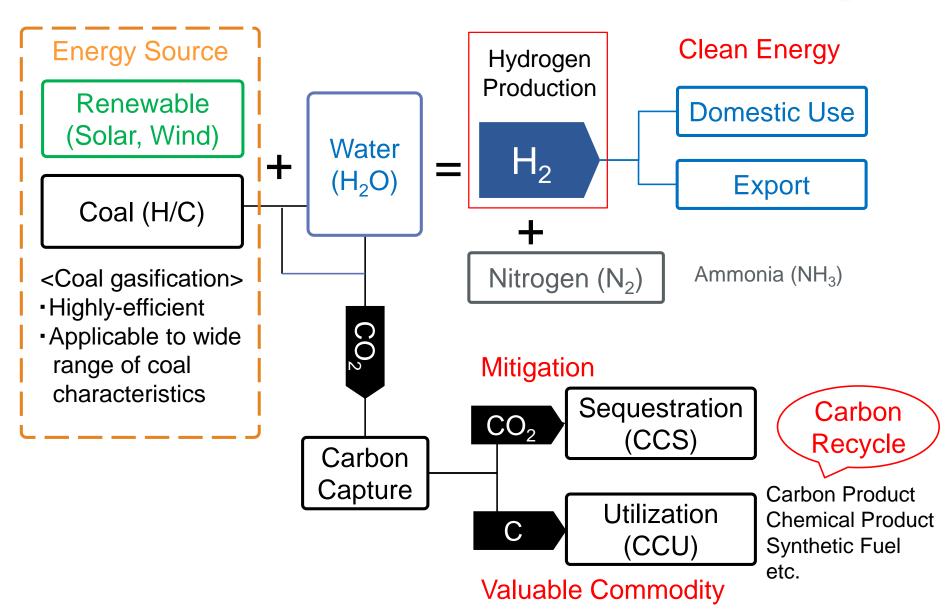
"The time is right to tap into hydrogen's potential to play a key role in a clean, secure and affordable energy future."

Source: IEA (2019) The Future of Hydrogen

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Hydrogen Production

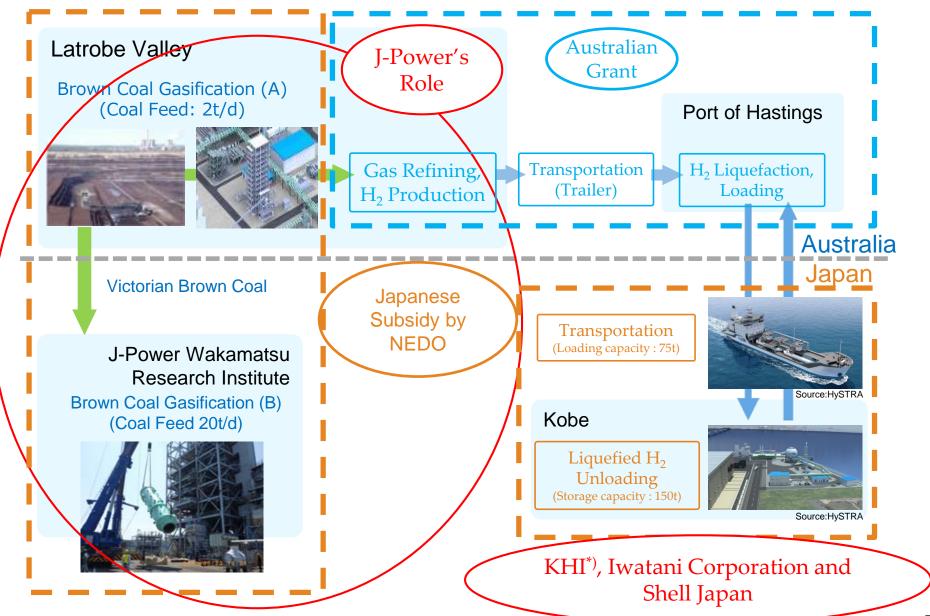




Hydrogen Energy Supply Chain Project

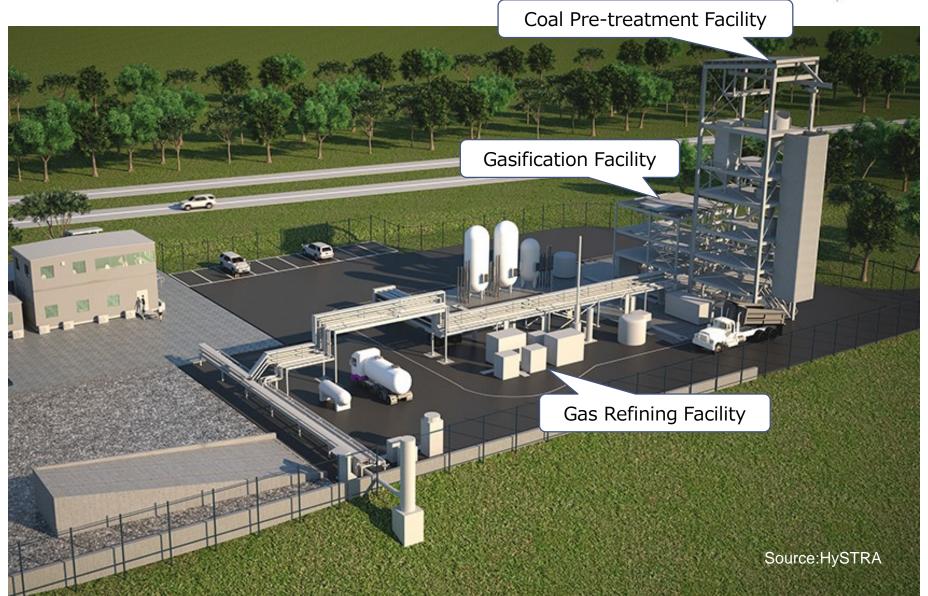






HESC Pilot Plant





Energy Resource Options for Hydrogen (example)



