

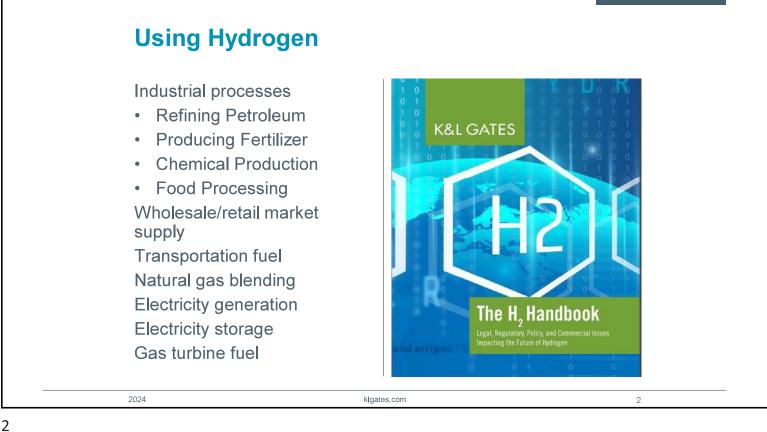
Unique Considerations for Hydrogen Projects

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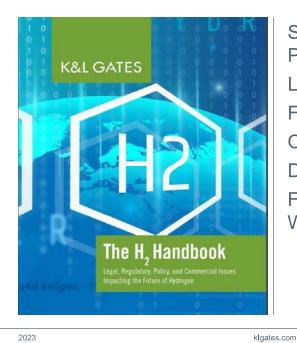
K&L GATES **Producing Hydrogen Production Methods** Steam reformation (SMR) Natural gas or landfill gas **K&L GATES** Autothermal reformation Natural gas or landfill gas • Electrolysis Low temperature (uses electricity) ٠ High temperature (electricity and heat) Onsite vs. Offsite Electrolyzers are modular and have a small footprint providing flexibility as to size and location SMR typically requires utility-scale The H, Handbook investments Hydrogen hubs can serve as both onsite and offsite suppliers 2024 klgates.com 1





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Onsite Electrolytic Hydrogen Projects



Siting is on Customer Premises Lease vs. License Feedstock Onsite Storage Delivery Point Fully Wrapped vs. Partial Wrapped Contracts

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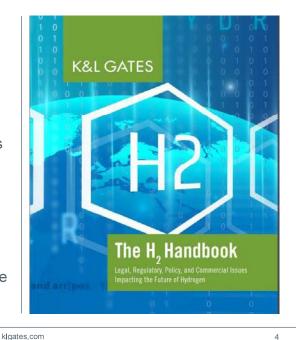


Low-emission resources

- Types:
 - Renewables (solar, wind, geothermal, hydro)
 - Nuclear
 - Fossil fuels or biomass
 with CCS
- Co-located

2024

- PPA, Lease, or Build-Transfer/EPC Agreements
- Grid Power + RECs
 - Virtual Power Purchase
 Agreements (VPPAs)



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Onsite Hydrogen Projects: Water Supply



Water Specifications

 testing and certification as to quality

Water Scarcity - allocation of risks

- Supplier wants:
 - Unqualified responsibility by Customer to supply full water requirements on demand
- Customer wants:
 - Change in Law Provisions addressing governmentimposed water restrictions
 - Force Majeure Provisions that cover water shortfall

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Title search: Hydrogen Energy: Unique Considerations for Transaction Documents

Also available as part of the eCourse <u>Hydrogen Energy: Transaction Documents, Incentives, and Production Pathways</u>

First appeared as part of the conference materials for the 19th Annual Renewable Energy Law Institute session "Hydrogen Energy: Unique Considerations for Transaction Documents"