

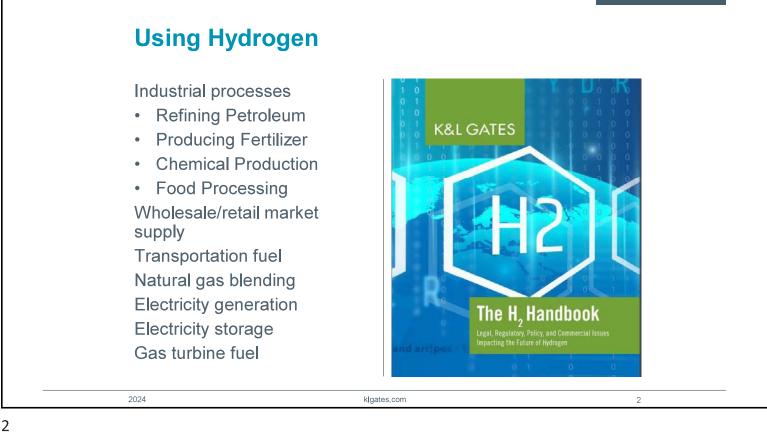
Unique Considerations for Hydrogen Projects

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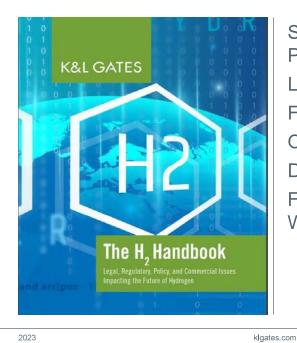
K&L GATES **Producing Hydrogen Production Methods** Steam reformation (SMR) Natural gas or landfill gas **K&L GATES** Autothermal reformation Natural gas or landfill gas • Electrolysis Low temperature (uses electricity) ٠ High temperature (electricity and heat) Onsite vs. Offsite Electrolyzers are modular 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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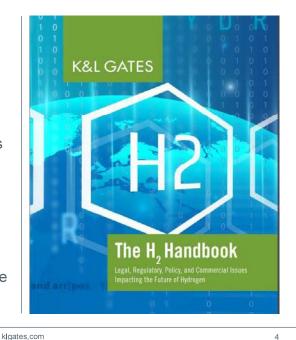


Low-emission resources

- 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 2024 Renewable Energy Law eConference

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