



Corporate
Overview
IECA Fall Meeting



Clean Hydrogen Use Cases

Clean Hydrogen Ladder: Competing technologies

Liebreich
Associates

Unavoidable

Key:

No real alternative

Electricity/batteries

Biomass/biogas

Other



Uncompetitive

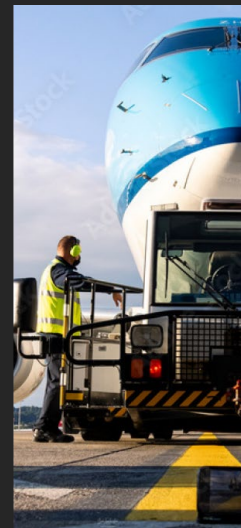
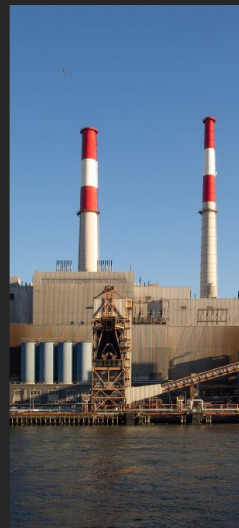
Source: Michael Liebreich Associates, Liebreich Associates, Liebreich Associates, Liebreich Associates

GEN.COM

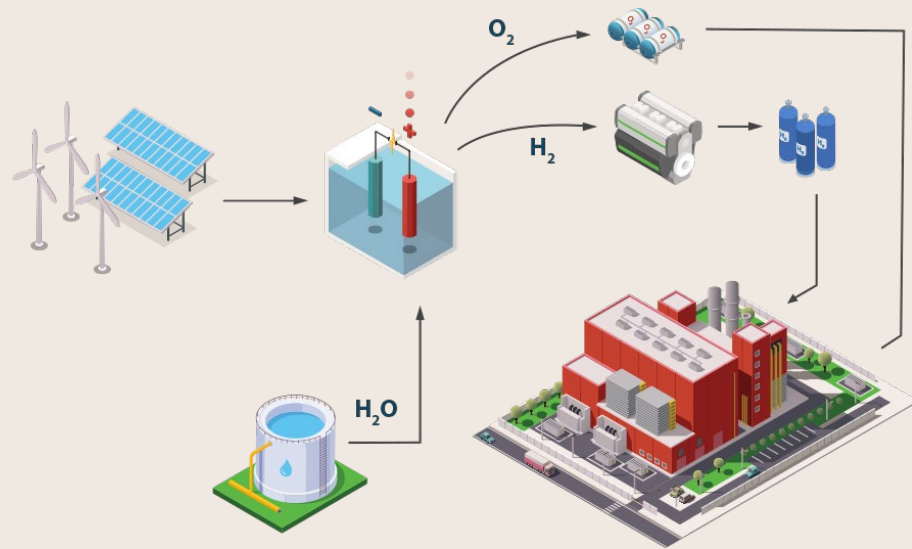
OUR SOLUTIONS

Reduce fuel price volatility and emissions with a reliable and safe zero-carbon alternative.

Affordable renewable hydrogen is the missing link to a clean energy future. NovoHydrogen provides renewable hydrogen solutions. Benefit from pay-as-you-go renewable hydrogen energy to avoid upfront costs and enjoy predictable long-term rates.



ON-SITE HYDROGEN & OXYGEN



Generate hydrogen where you need it with an on-site electrolyzer powered by renewable energy.

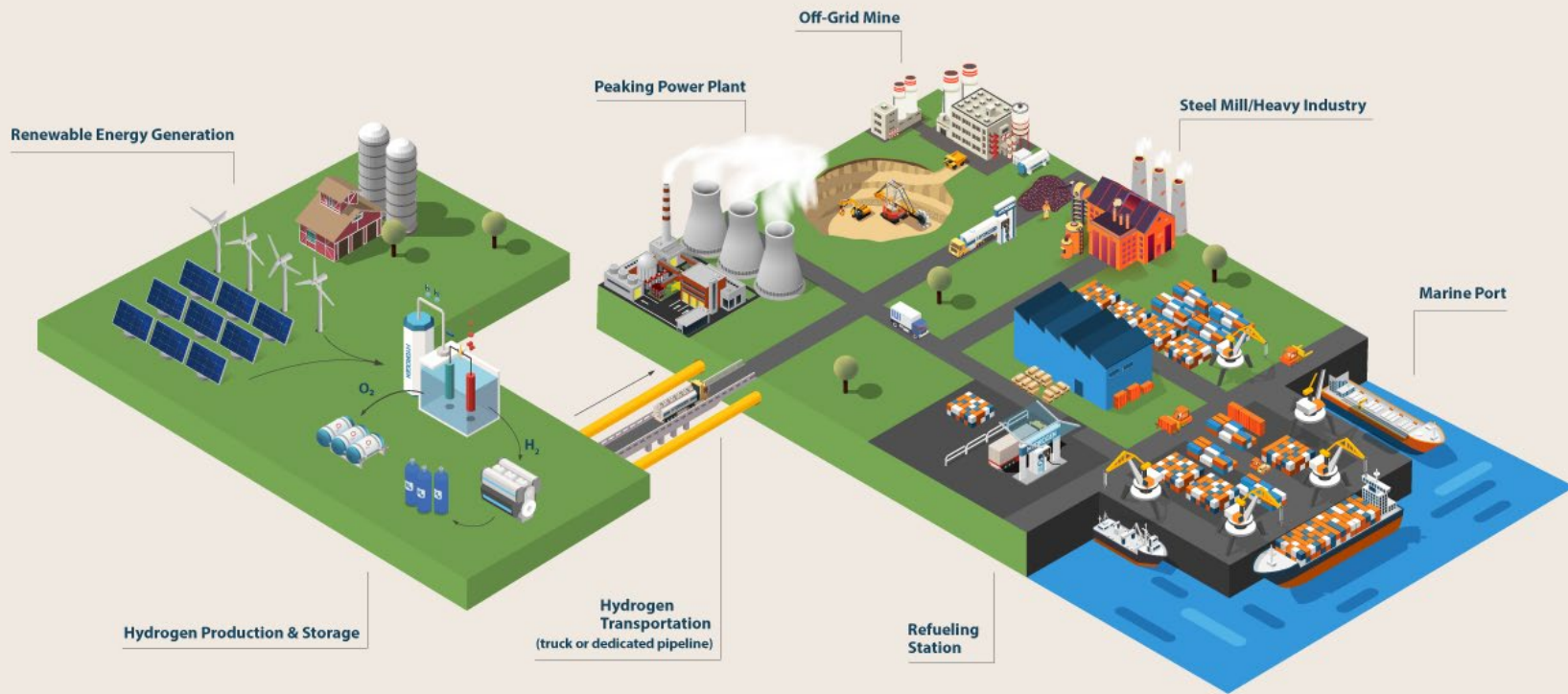
We work closely with top hydrogen equipment providers to bring the process of electrolysis to your facility. An on-site electrolyzer uses the electricity produced from solar or wind to split water into hydrogen and oxygen. The result is an emission-free, cost-effective renewable gas for use at your facility.

OFF-SITE HYDROGEN & OXYGEN



Leverage the scale of off-site renewable hydrogen generation and have it reliably delivered to your operations.

NovoHydrogen can reliably and safely transport renewable hydrogen using pipeline infrastructure or via trucks to your facility(ies). We leverage our network of large-scale hydrogen generators to tailor a solution that fits your needs. We handle the transportation logistics, allowing you to focus on your core operations. Ultimately you receive reliable, safe, and cost-effective renewable hydrogen.



MEMBERSHIP & AFFILIATIONS

Our team has seats at important industry organizations that play a critical role in driving forward the future of renewable hydrogen.

NovoHydrogen is a member of the Renewable Hydrogen Alliance, Ammonia Energy Association, World Hydrogen Leaders, and Responsible Steel.

NovoHydrogen CEO & Founder, Matt McMonagle, sits on the supplier council of Industrial Energy Consumers of America (IECA). We are also a proud supporter of the Green Hydrogen Coalition.



NOVO'S COMPETITIVE ADVANTAGE

Zero Carbon Focus



We provide cost effective and reliable hydrogen (and oxygen) to our customers without emissions

“PPA” Model



Our customers avoid upfront costs and benefit from pay-as-you-go renewable hydrogen with long term price certainty

Solid Partner Network



We partner with top tier equipment and service providers to ensure reliable and safe delivery of hydrogen

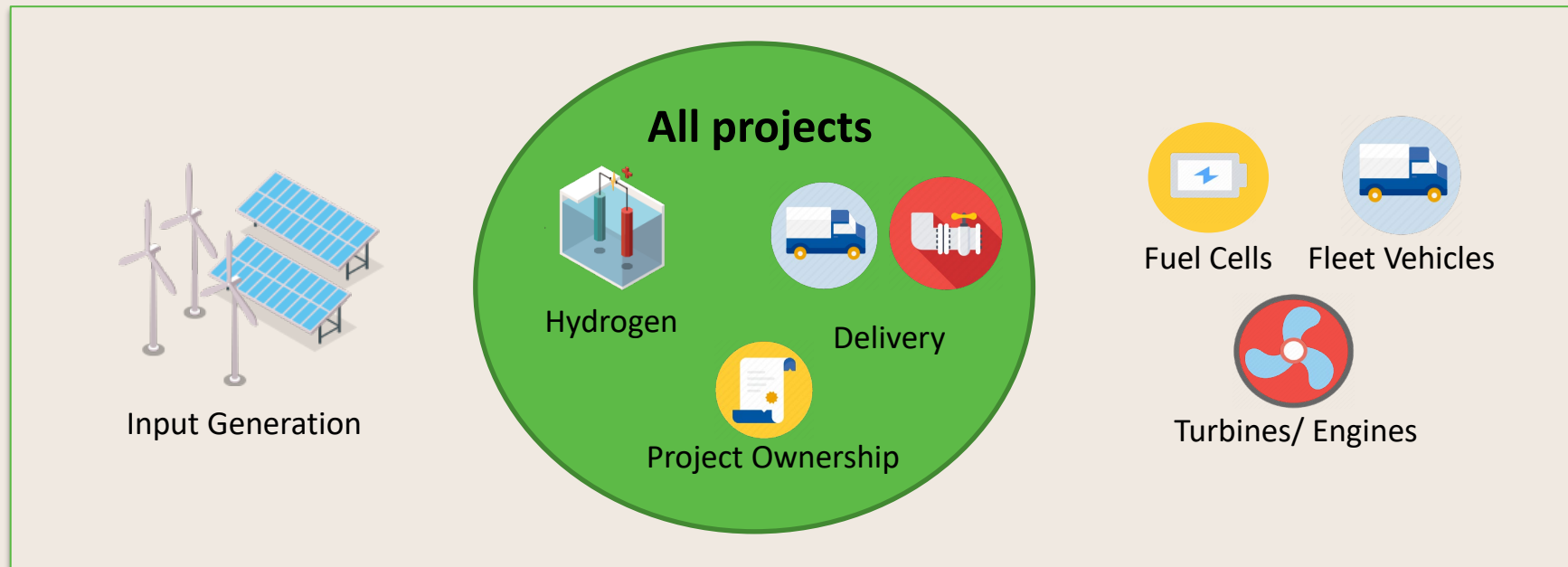
Diverse Industry Experience



Team experience spans the energy sector, enabling a robust network

Solid foundation, focused, and agile

VALUE CHAIN BUSINESS MODEL



Novo will either generate clean power for the project or contract through PPA / VPPA








Novo will manufacture, transport and sell hydrogen and own projects

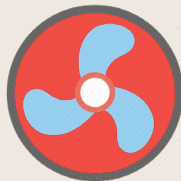
Novo will sell hydrogen to all customers and derivative products to some customers, as needed

INDUSTRIES SERVED



Industry

-  Semiconductor
-  Oil Refinery
-  Glass Manufacturing
-  Metal
-  Steel
-  Cement
-  Hydrogenated Oil







Power

-  Natural Gas Plant
-  Data Center
-  University
-  Corporate Campus
-  Hospital
-  Wastewater Plant
-  Mining



Transportation

-  Fleet Owner
-  Port
-  Mining
-  Public Transportation

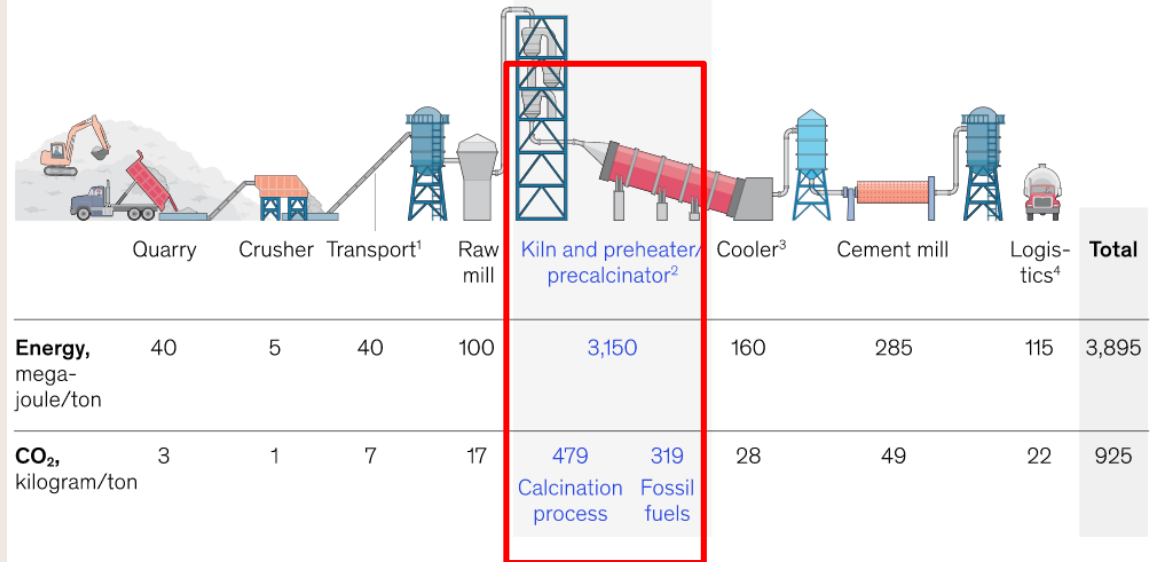
Highest Value Use Cases

Cement Production

- 7% of global emissions
- ~2/3 process and 1/3 fuel

Raw materials, energy,
and resources

Clinker and cement manufacturing



¹ Assumed with 1kWh/t/100m.

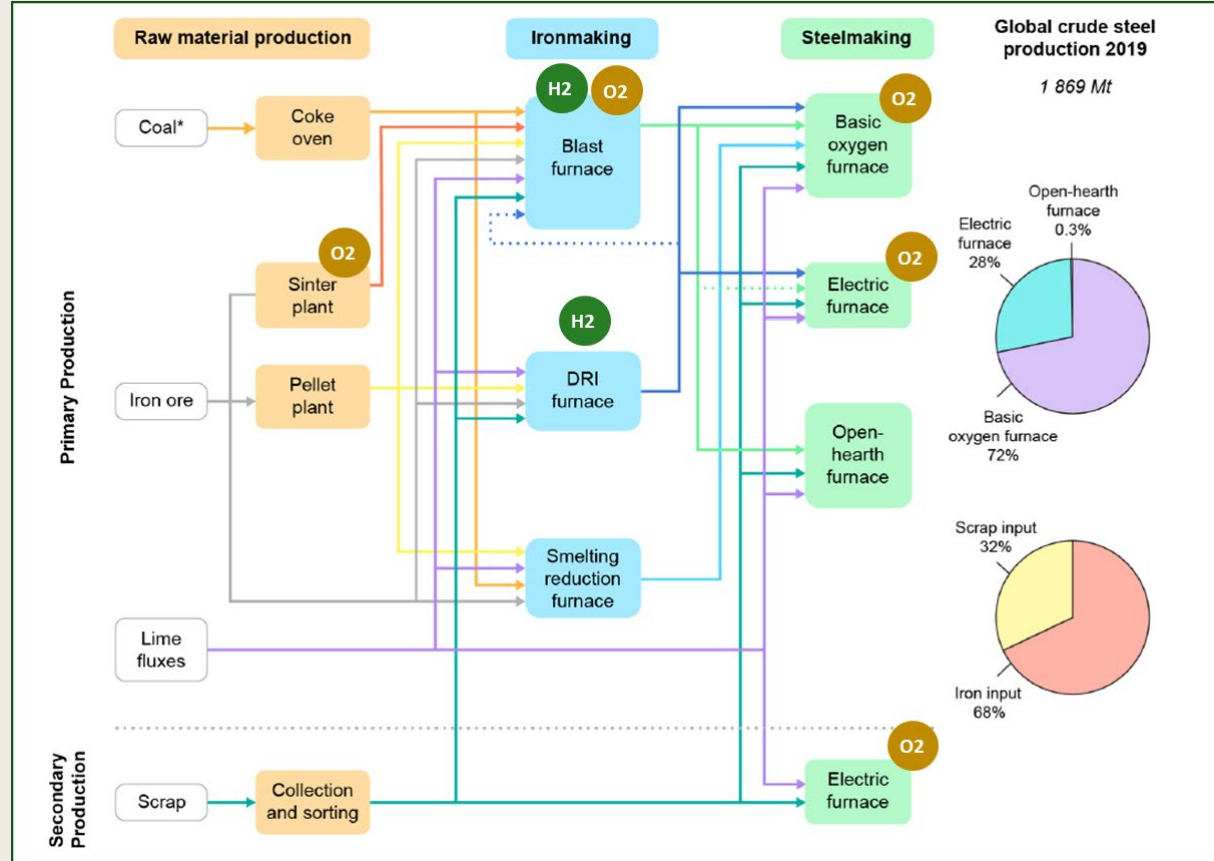
² Assumed global average, data from the Global Cement and Concrete Association, Getting the Numbers Right 2017.

³ Assumed reciprocating grate cooler with 5kWh/t clinker.

⁴ Assumed lorry transportation for average 200km.

Steel Production

- 8% of global emissions
- Multiple production pathways



Ammonia Production



Ammonia = NH_3



Main ingredient in Fertilizer

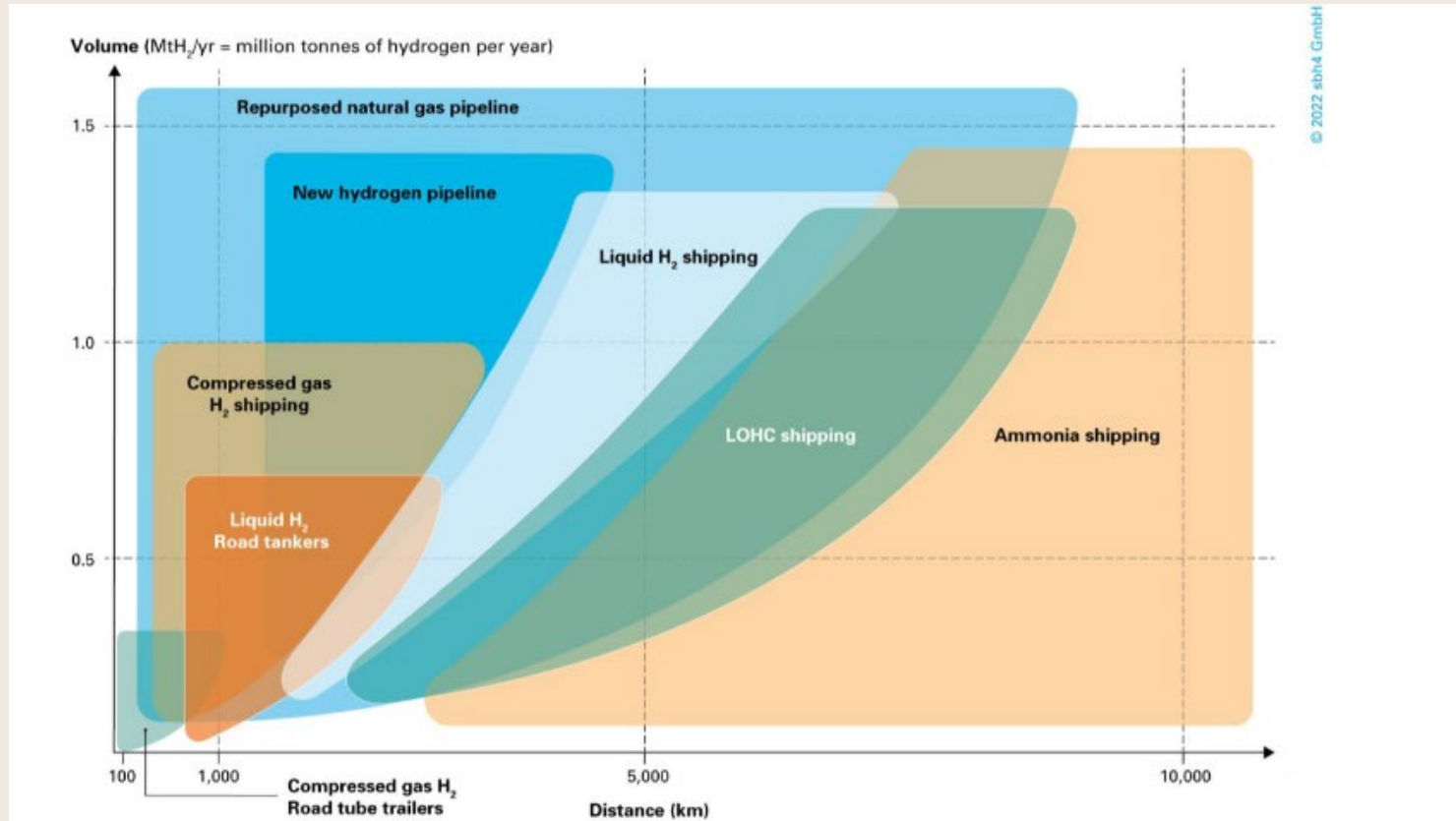


Power Production

- 🌱 Dispatchable power
- 🌱 24/7 clean power (renewable variability)
- 🌱 Backup power
- 🌱 OEM conversions



Midstream



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