



Revolutionizing clean ammonia production

Providing our partners with
cutting edge innovation

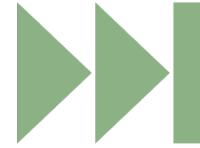


We are a **technology developer**, supported by the **industry**,
on a mission to **feed and fuel** the world with **clean ammonia**

Ammonia as fertilizer
and energy carrier

To allow the production of
cost effective clean ammonia

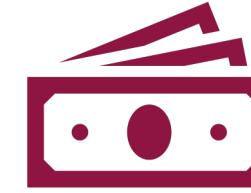
Running Haber – Bosch with clean hydrogen is hard



Plants ideally **run 24/7 at high capacity** even during expensive renewable downtime



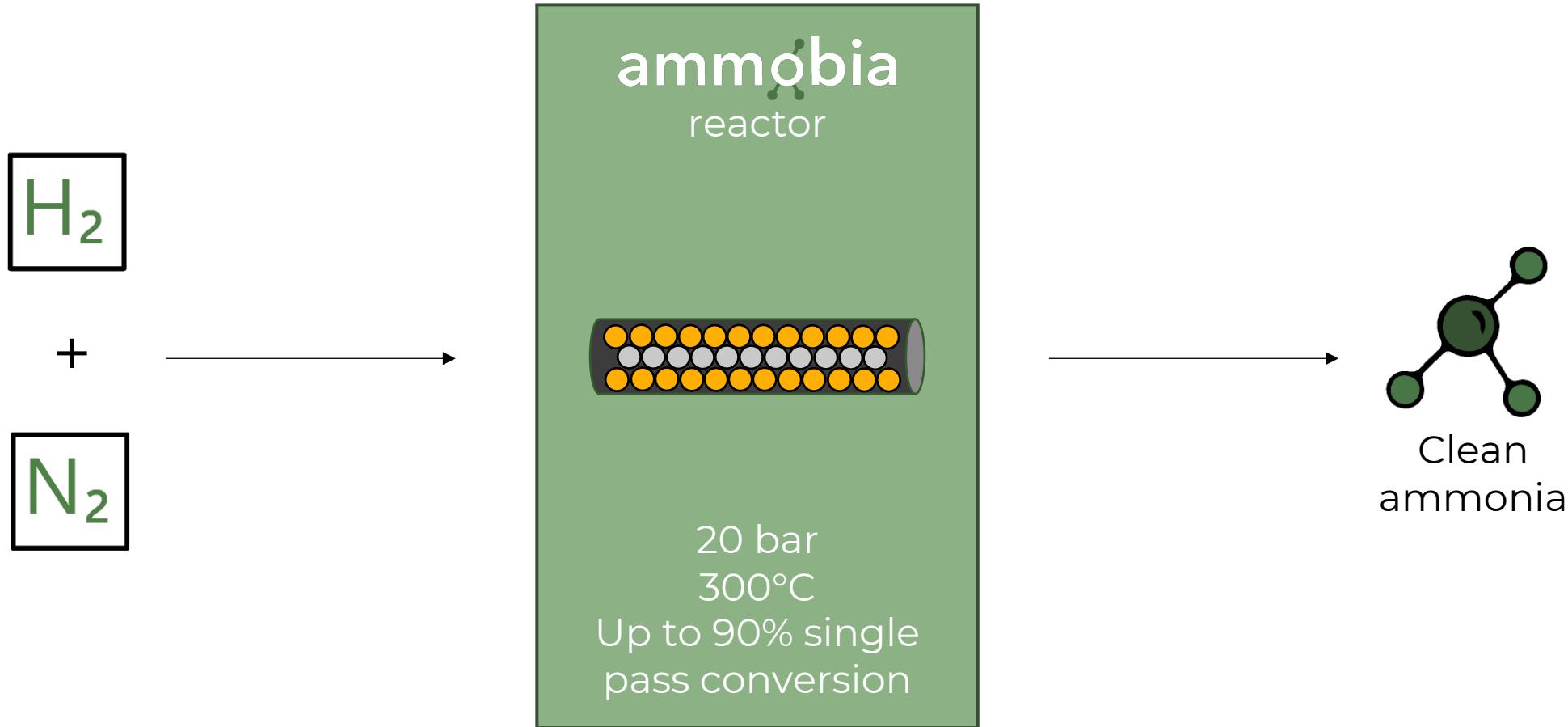
Requires high capex **hydrogen storage** facilities



Economics work at GW scale, **complex project development**

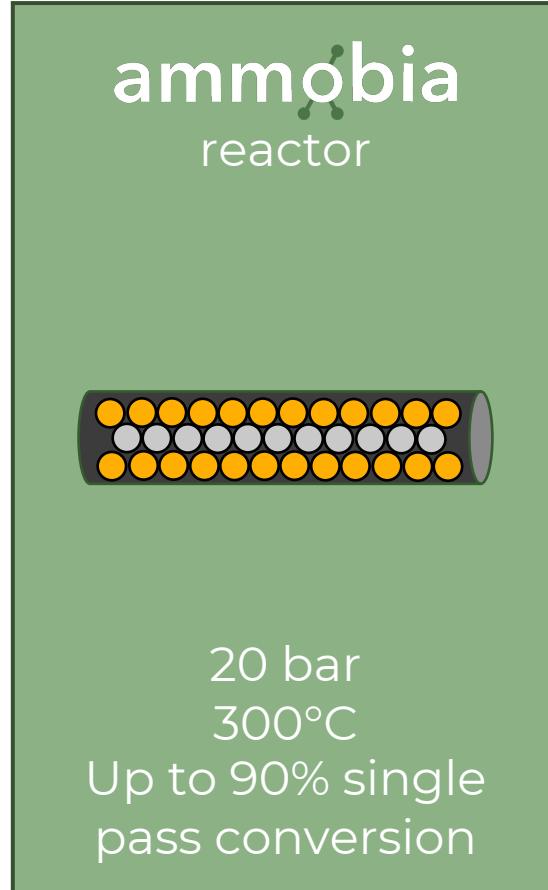
Our key innovation is a 10x lower pressure, flexible ammonia synthesis reactor

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Cost effective ammonia production, ideal for clean

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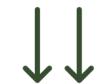
10x lower pressure (~20 bar vs 200 bar)



200°C temperature reduction (~300°C vs 500°C)



2x capex reduction for ammonia synthesis loop



Up to **20% opex reduction** for total ammonia production process



Flexible, fit for green H₂, allows ramping with PEM electrolyzers

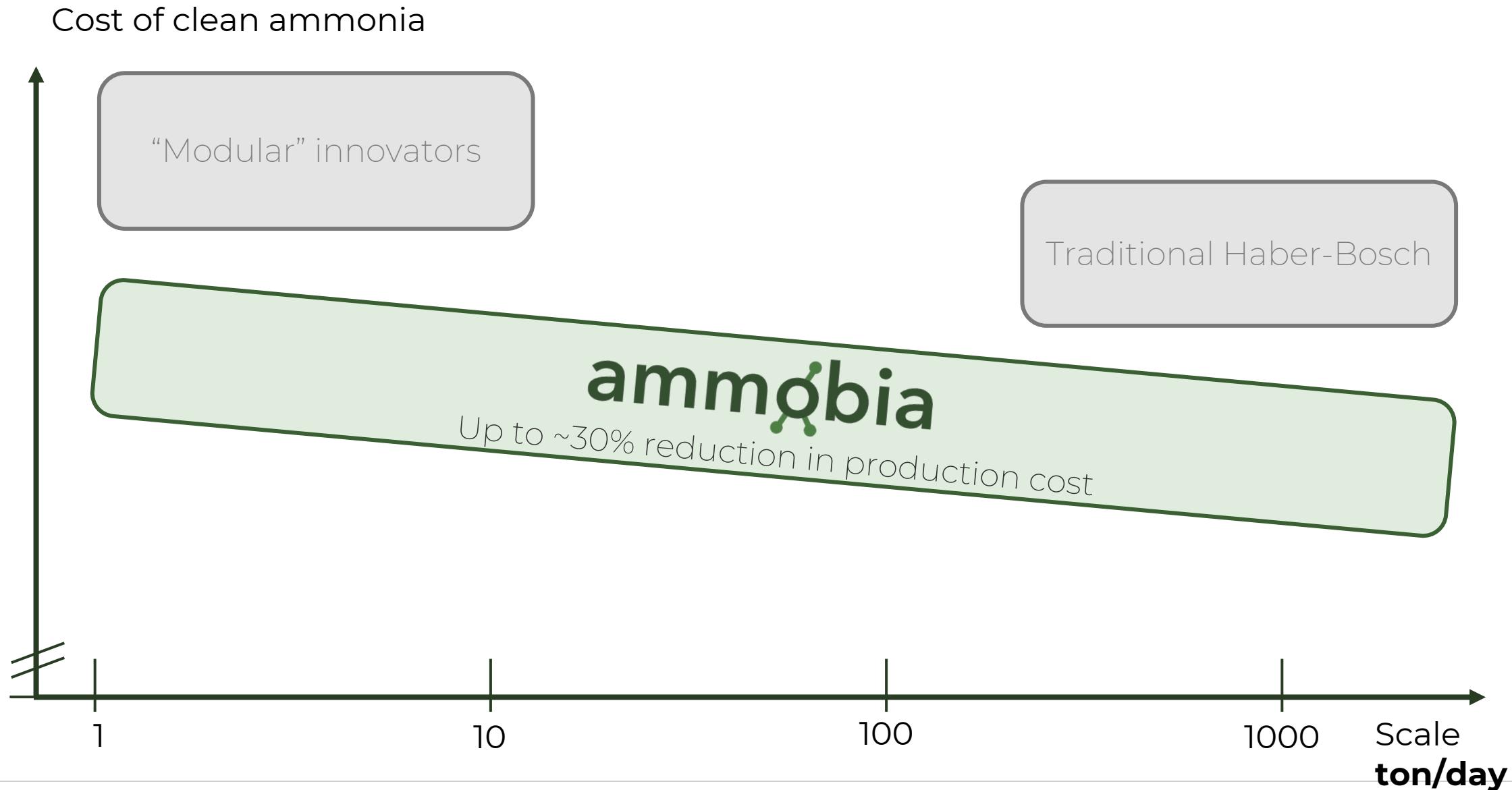


Modular technology works **across scales and hydrogen source**

More cost effective ammonia production, best fit for clean ammonia

Ammobia's disruptive tech enables low-cost clean NH₃ across scales

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Rapidly scaling from lab to bench to pilot to FOAK

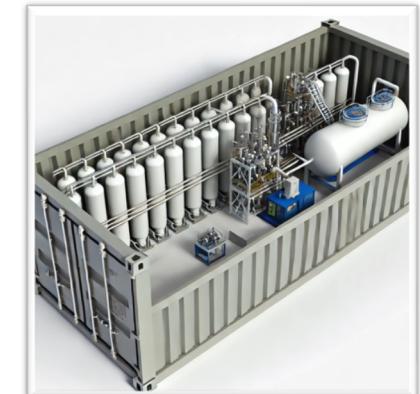
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TRL 3 (Lab)
~10 grams/day
May 2024

TRL 4-5 (Bench)
1 kg/day
EOY 2024

TRL 6 (Pilot)
~50 kg/day
2026

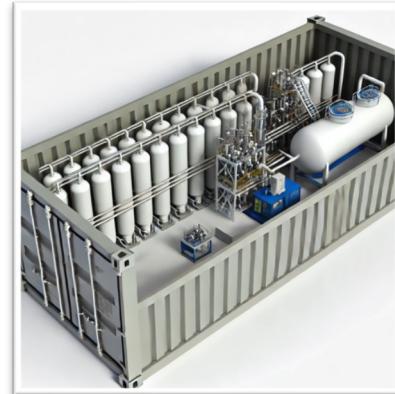
TRL 7 (FOAK)
~10 tons/day
2028



Long-term we aim to provide tech across scales

DISTRIBUTED

~10 ton/day modular,
flexible NH₃ loop



MEDIUM - LARGE

~200 ton/day modular
flexible NH₃ loop



LARGE – VERY LARGE

License + proprietary
equipment for 2000+
tons/day projects



Grateful for support from and collaborations with industry so far

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AROSA



PLUGANDPLAY

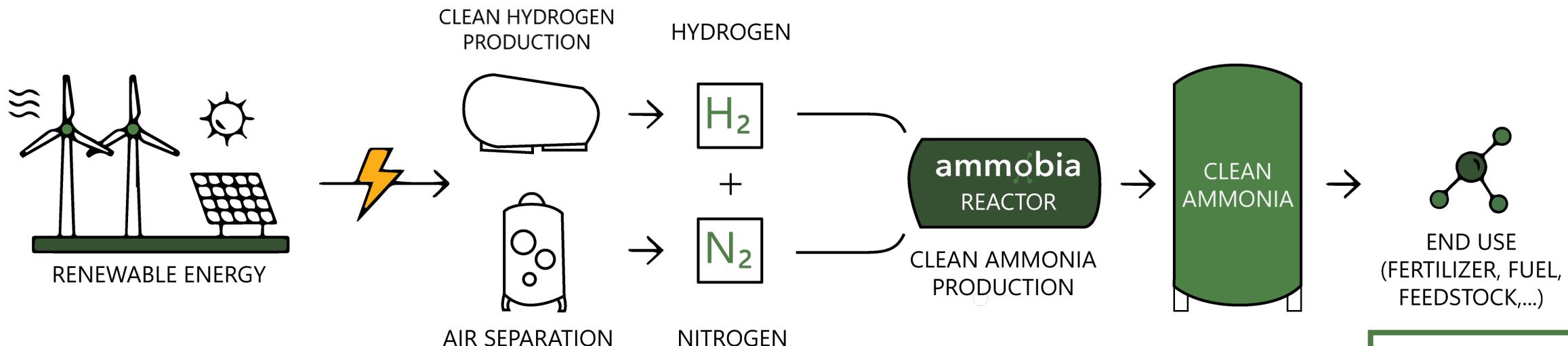


Opportunities for collaboration & engagement across value chain

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Engineering partners/Technology integrators

Renewables and hydrogen producers



Project developers

Ammonia producers

Ammonia off-takers & distributors

Hungry, low-ego team with passion to push boundaries & decarbonize

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FOUNDERS



Karen Baert
Co-founder | CEO



Tristan Gilbert
Co-founder | CTO



- Bridging tech and market through experience at Breakthrough Energy Ventures, Bain and climate tech start-ups
- ChemE BS KULeuven (Belgium), EnergyE MS TUBerlin (Germany), MBA Stanford

- Diverse experience in technology development across material, reactor and process at range of climate tech start-ups incl. Form Energy, Sila Nano and Tesla
- MechE BS and MS Vanderbilt, PhD drop-out Stanford

ADVISORS (not exhaustive)



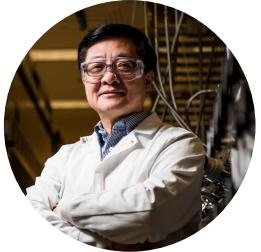
Hans Vrijenhoef
BusDev & Tech



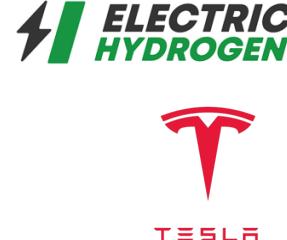
Dr. Naomi Boness
Strategy



Dorian West
Engineering



Prof Yong Wang
Science



- 30y in the ammonia industry
- Ex-CEO of ammonia start-up
- Ex-President of global Ammonia Energy Association
- Co-managing director Stanford Hydrogen Initiative
- Held variety of mgmt. positions at Proton Ventures
- Serves on multiple (incl public) boards in energy industry
- 15 years at Tesla, grew from one of the 1st engineers to VP of Engineering
- Co-founder and former EVP of Engineering at Electric Hydrogen
- Professor in reaction and catalysis engineering at Washington State
- Associate Director WSU Institute for Integrated Catalysis

Thank you!

Interested to learn more about what Ammobia's tech would mean in terms of LCOA for your project?

Reach out to

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