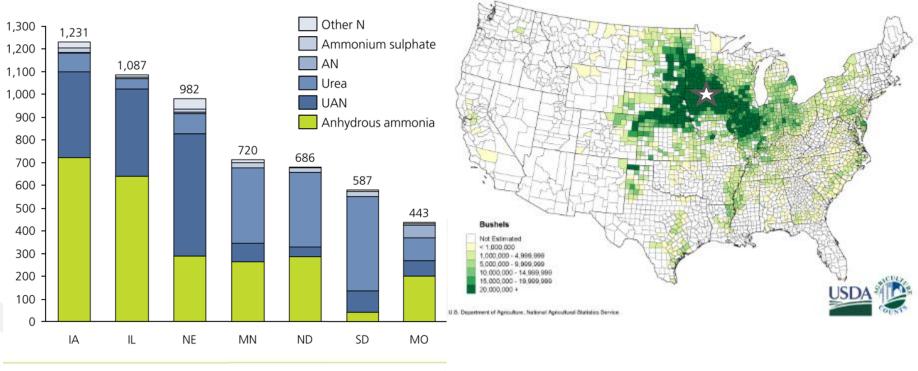


The First U.S. Industrial Scale Pure Green Hydrogen and Ammonia Plant

November 2021

OUR STORY: LOCATION, LOCATION, LOCATION



Source: AAPFCO

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MIDWESTERN REGION: A WIN - WIN

Strong Market

High Ammonia Use

- Demand in Iowa = 5x supply.
- Logistical Advantage: 50-75 miles distribution radius (in-season).
- Access to NuStar Ammonia Pipeline.
- Access to rail.

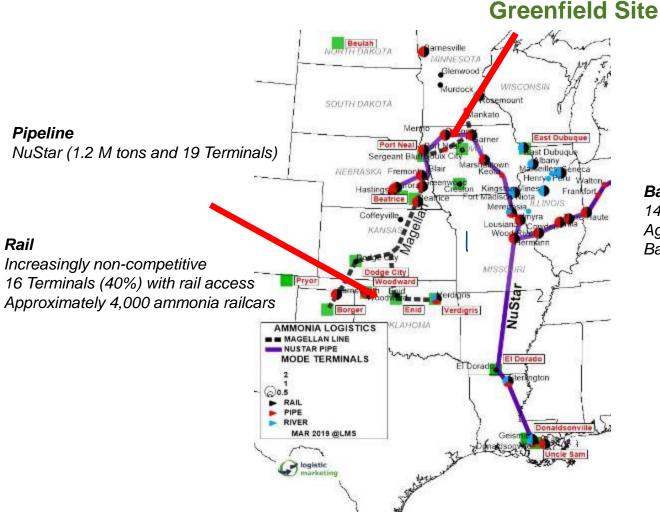
Renewable Energy

Abundant Supply

- Plant will use 100% renewable energy, including renewable energy credit.
- Iowa has a high percentage of renewable power.
- Iowa also has surplus renewable power.
- Innovative electrical rate.



ACCESS TO LOCAL & GLOBAL MARKETS



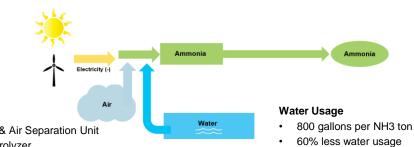
Barge

14 River Terminals (36%) Aging Barge Fleet (Avg Age 45 years) Barge replacement cost \$35-40MM

Green Ammonia Facility vs. Traditional Nitrogen Production Facility

Greenfield Nitrogen: Zero Carbon Ammonia Facility

Made with water, wind and sun energy



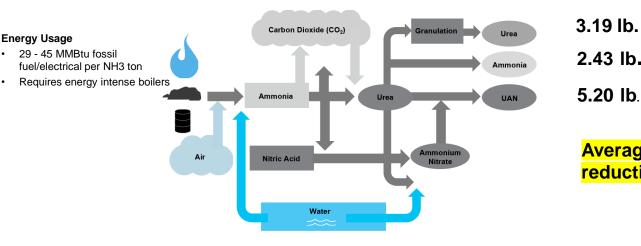


- 860 kWh per ton Loop & Air Separation Unit
- 9000 kWh per ton Electrolyzer
- 100% renewable energy

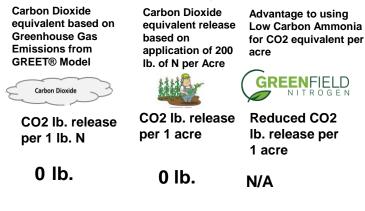
Traditional Nitrogen Facility: Multiple Products Made with Fossil Fuels

40% of CO2 is used as feedstock; later released through use of nitrogen products at farm field for urea & UAN

- C02 is used for Urea & UAN Production
- C02 captured through energy intense Amine wash process



Water Usage



639 lb.

485 lb.

2.43 lb.

5.20 lb

1040 lb. 1040 lb. Average CO2 equivalent reduction per acre: 721 lb.

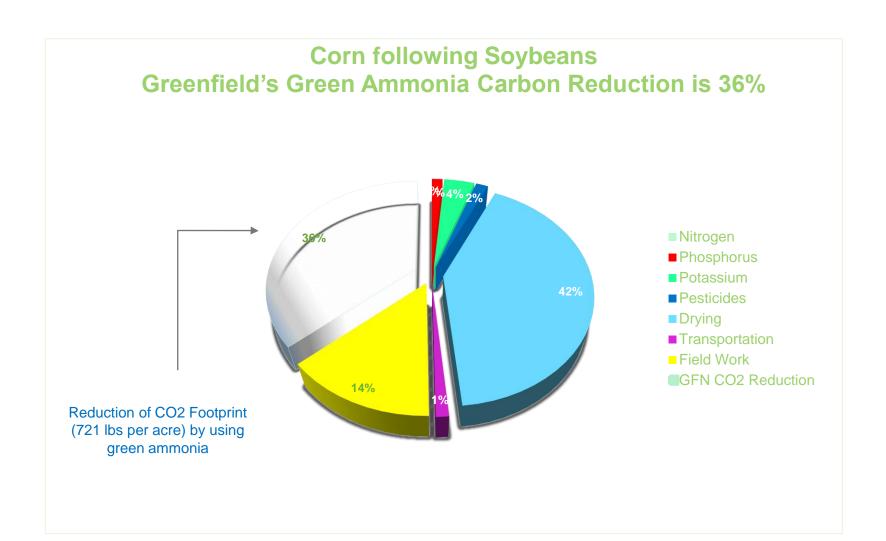


639 lb.

485 lb.

2200 - 2500 gallons of water per NH3 ton •

BENFIT OF ZERO CARBON AMMONIA





PURE GREEN IS KEY

OPPORTUNITIES

- Win-Win -- Access to both a high ammonia use region and renewable energy.
- "Clean Slate" Not encumbered with legacy assets.
- **100% Green** No blending of gray, blue or other shades of ammonia.
- **EPC Partner –** Maire Tecnimont and its subsidiaries will co-develop the project, and use the STAMI Green Ammonia technology.
- Electrical Rate Innovative electrical rate structure competitive with gray ammonia.

EMERGING

New Markets – Well positioned, but also need the market to develop.

Green Credit / Green Premium -

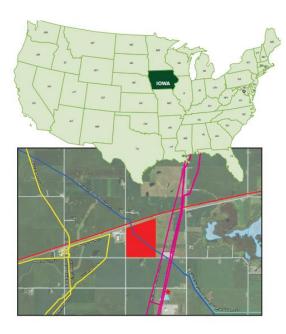
Unknown how credit market will evolve or how much of a premium customers will pay.

Federal tax credits or other incentives – Still being developed. Amount and duration unknown.



THE GARNER, IOWA PROJECT

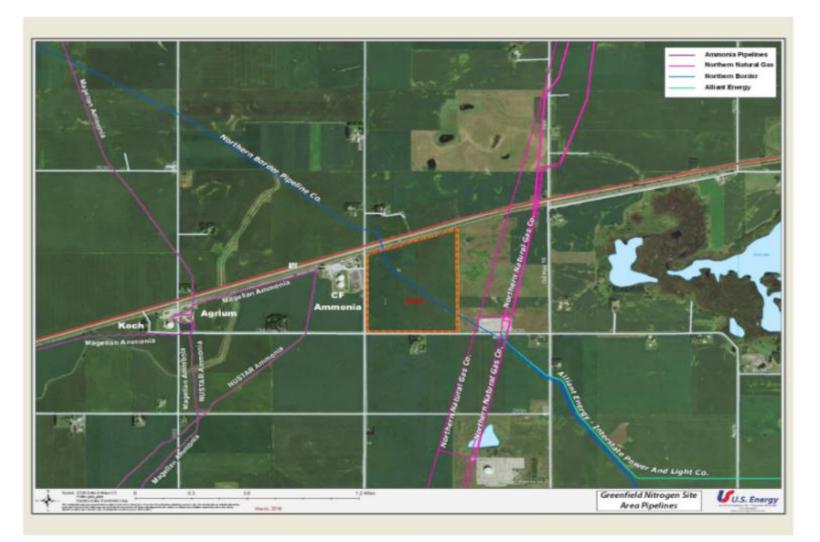
PROJECT OVERVIEW



- 96,000 short tons / year of green ammonia (275 tons per day).
- Key permits in place and shovel ready site.
- Joint development partnership with Maire Tecnimont, including Stamicarbon, MET Development and NextChem.
- Engaged with investment firm with expertise in renewable energy / green hydrogen.
- Partnership with large utility company to create competitive electrical rate package.
- Local farmers and businesses invested seed capital. Strong support from state and local officials.

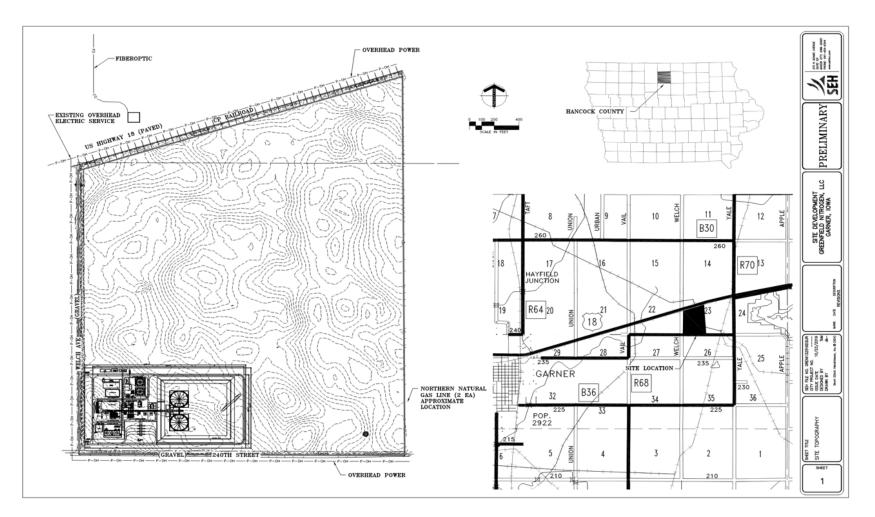








SITE PLOT PLAN





ESTIMATED TIMELINE

