

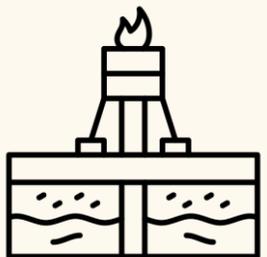


RISE
REFORMING
TODAY'S WASTE HAS TOMORROW'S VALUE

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PROBLEM 1

Virtually all chemicals start as a fossil fuel...



Fossil Fuel
(e.g. natural gas, coal)



Chemicals
(e.g. ethylene, propylene, methanol, DME)

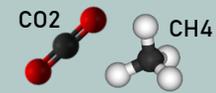
...and the industry is responsible for **~5% of global emissions**

Green alternatives cost more + companies won't pay a premium

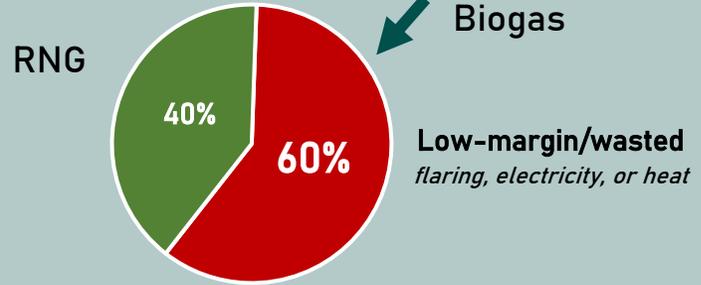


Using low-value renewable feedstocks can help reduce the costs of green chemicals

PROBLEM 2



Biogas

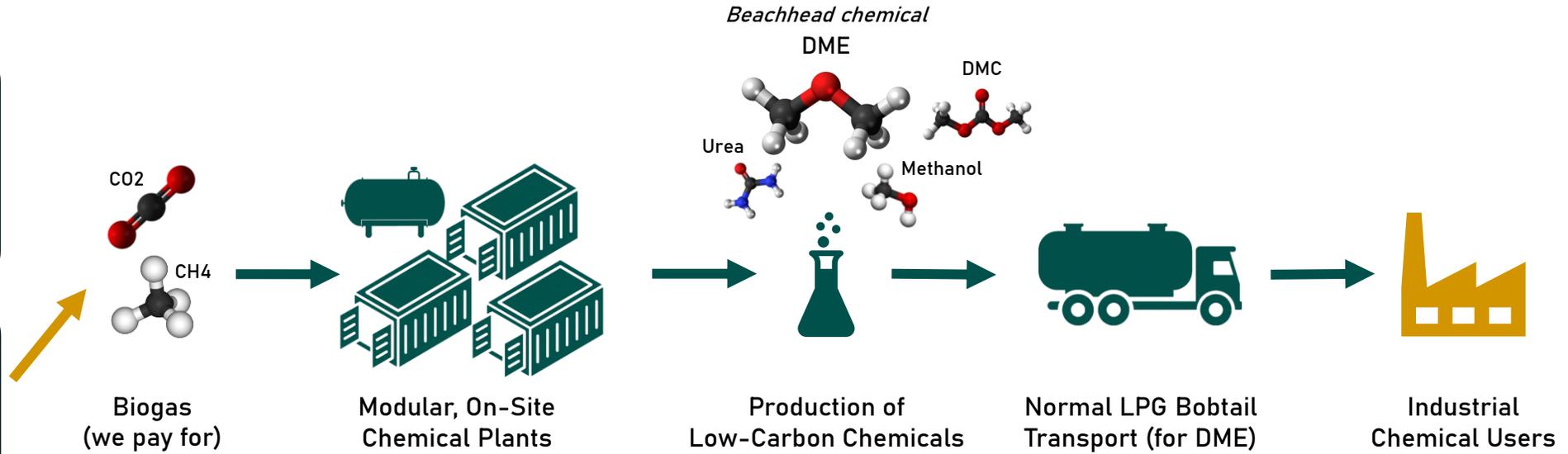


US biogas producers miss out on at least **~\$3 bn** annually

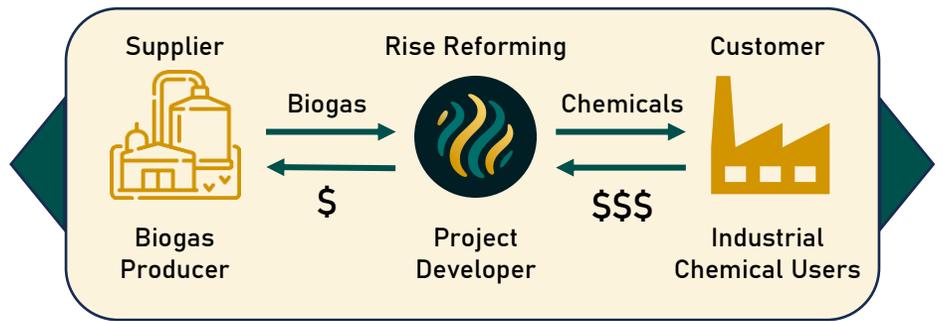


What if we use waste biogas as a raw material to make chemicals?

Case Study: Farm with Anaerobic Digester



Value Chain



If biogas operator currently flares, we **unlock** a new revenue stream

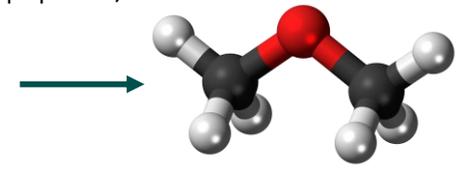
If they burn for power, we **double*** their margins at **no cost** to them

We produce **low-carbon, cost-competitive** chemicals

* From data provided by dairy farm in Ontario, Canada

Aerosols

(specialty chemical, highest CAGR of all propellants)

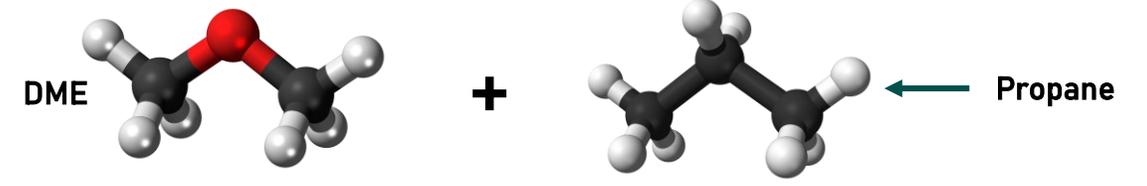


High quality, ozone-friendly propellant in everyday products such as:



\$10 bn TAM
9% CAGR

Propane blending



Low-carbon additive for propane, similar to ethanol in gasoline

Propane-powered stove



Propane-powered school bus



Propane-powered grill



Rural propane tank

DME is our high-margin stepping stone

Alternative Fuels Data Center
Chemours
McAdams Propane Company
Data from 10 market research firms including Research Nester, IMARC, and more
Primary research from DME producers and consumers

Binding Supply Agreement Signed with Chicagoland wastewater treatment plant (WWTP)

Purpose: host our pilot module, provide us with biogas, lay groundwork for future commercial partnership



4 additional signed MOUs for future units

- 1 dairy farm in Ontario, Canada
- 2 WWTPs in WI
- 1 WWTP in IL

\$5 mn DME Offtake Agreement Signed with largest aerosol propellant manufacturer in North America

Purpose: purchase all DME from our first commercial unit for 10 years. Locks in pricing through potential boom/bust cycles

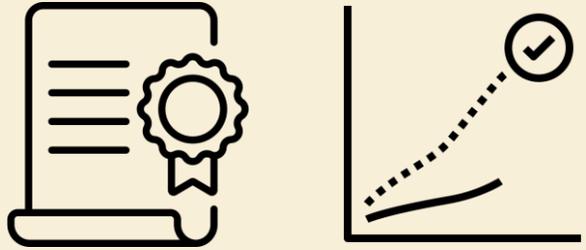


Chicagoland plant

“If we can generate several hundred thousand dollars a year from selling our gas to you guys, that could be around 5% of our operating budget. That’s a big game changer for our industry.”

Executive Director at Chicagoland WWTP that currently flares their biogas

vs renewable DME manufacturers



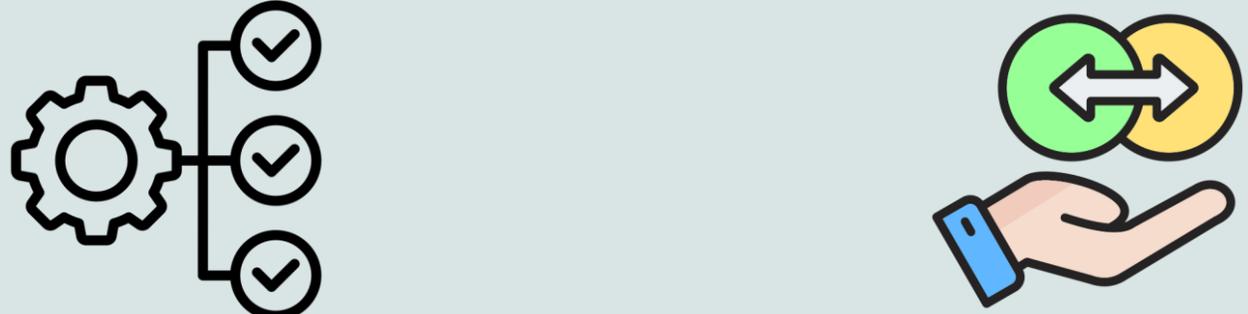
Lowest OPEX through patent-pending process



Modularity
(rapid deployment, ultra-low CAPEX, on-site deployment, high utilization factor)

vs fossil and renewable DME manufacturers

vs fossil DME manufacturers



Vertical integration = no markups

Feedstock and product variety

No other player has this combination of traits

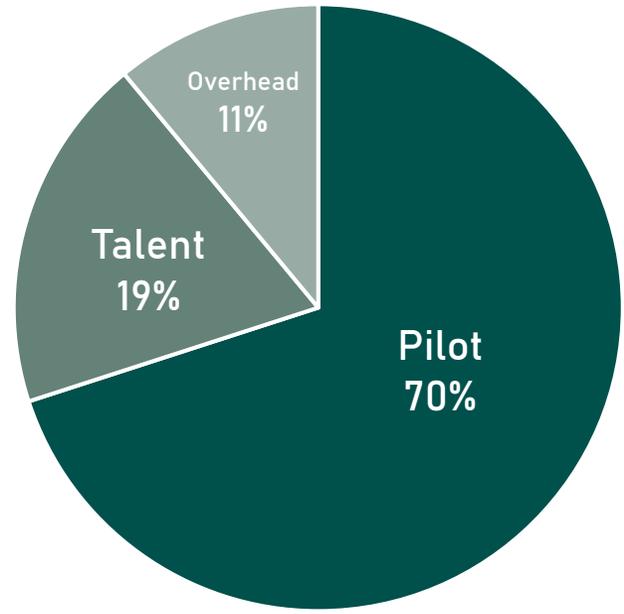
\$6 mn

(2-year period)

\$750k



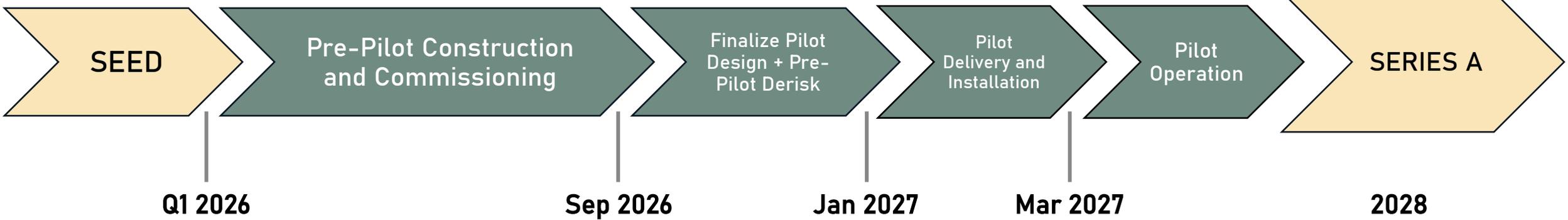
Progress



Seed Round Objectives:

- Derisk biogas-to-methanol process at pilot scale (TRL 7)
- Submit new patents and defend filed process patents
- Sign long-term host, supply, and offtake agreements for first commercial unit
- Hire senior process engineer

Project Timeline



Core Team



George Rose
Co-founder/CEO



Lucas Zubillaga
Co-founder/CTO



Jona van Oord
Co-founder/COO



Nina Kritikos
Founding Process Engineer



Senior Advisors



Dr. Jack Lewnard



Scientific Advisor



Dr. Garry Cooper



Growth Advisor



Richard Penning



Business Advisor



Bill Fraenheim



Industry Advisor



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