



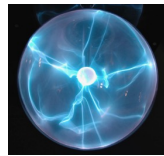
Atmospheric Microwave Plasma for Energy Decarbonization

KC Tran | CEO MAAT Energy | Cambridge, MA | www.maatenergy.com

Background



Founded in 2018, a spinoff of MIT



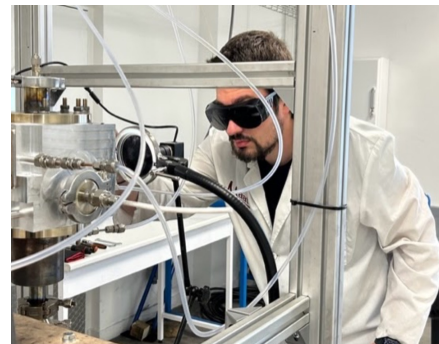
Experts in plasma science, CO2 and hydrocarbon chemistries, and fossil energies



Industrial selling experience in basic industries in US and Europe



Culture of problem solving and international partnerships



Lowest Total Ownership Cost



Transformative technology

- Mild plasma temperature system
- High power self regulated reactor
- Self carbon removal in reactor
- Autonomous operation
- Fast construction approach

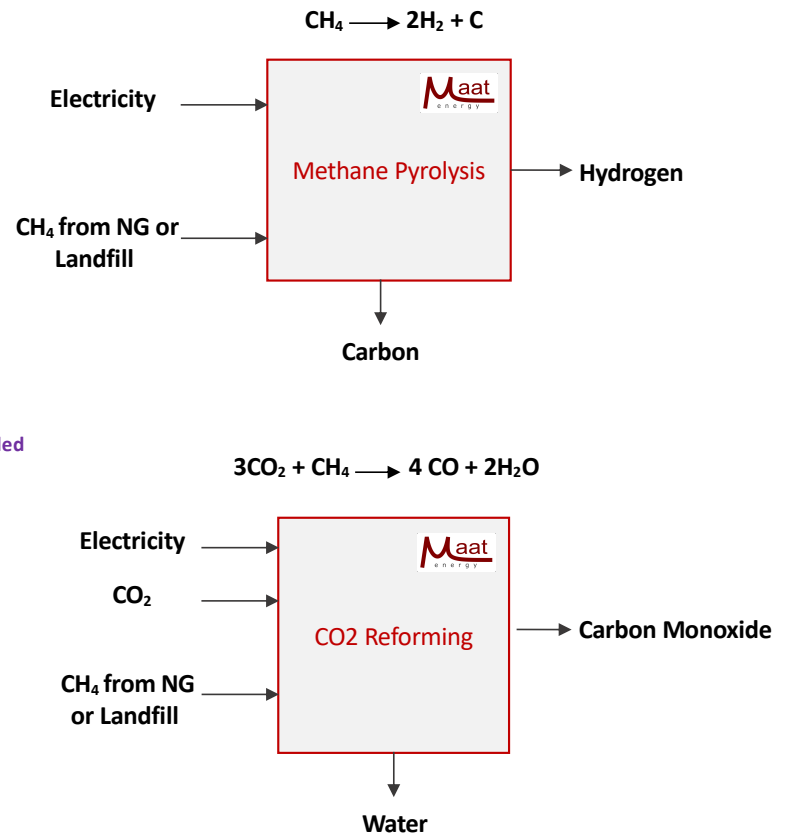


Operating advantages

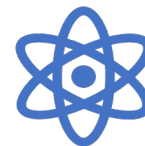
- Low operating cost and no waste
- Very low initial investment
- Safety first
- Fast response to renewable power
- Flexible hydrocarbon feedstocks
- Modular, scaled up by integrating reactors



Developed and scaled with DOE funding



Technology Readiness



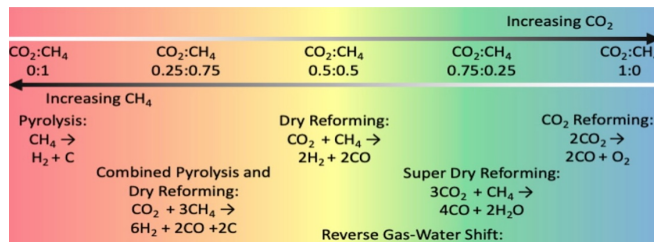
Physics of plasma reactor; system analysis for syngas and hydrogen; and carbon product development



Compliment research resources with leading industry partners, US and French national labs, and universities



Filed multiple patents; granted in the US and EU for low specific electrical energy consumption



Commercial Readiness

2024: Demonstration

Validating **with a gas partner** for hydrogen blending for the utilities

Developing projects in US and France

2025: Roll out

Fulfilling demonstration contracts of first customers in US and France

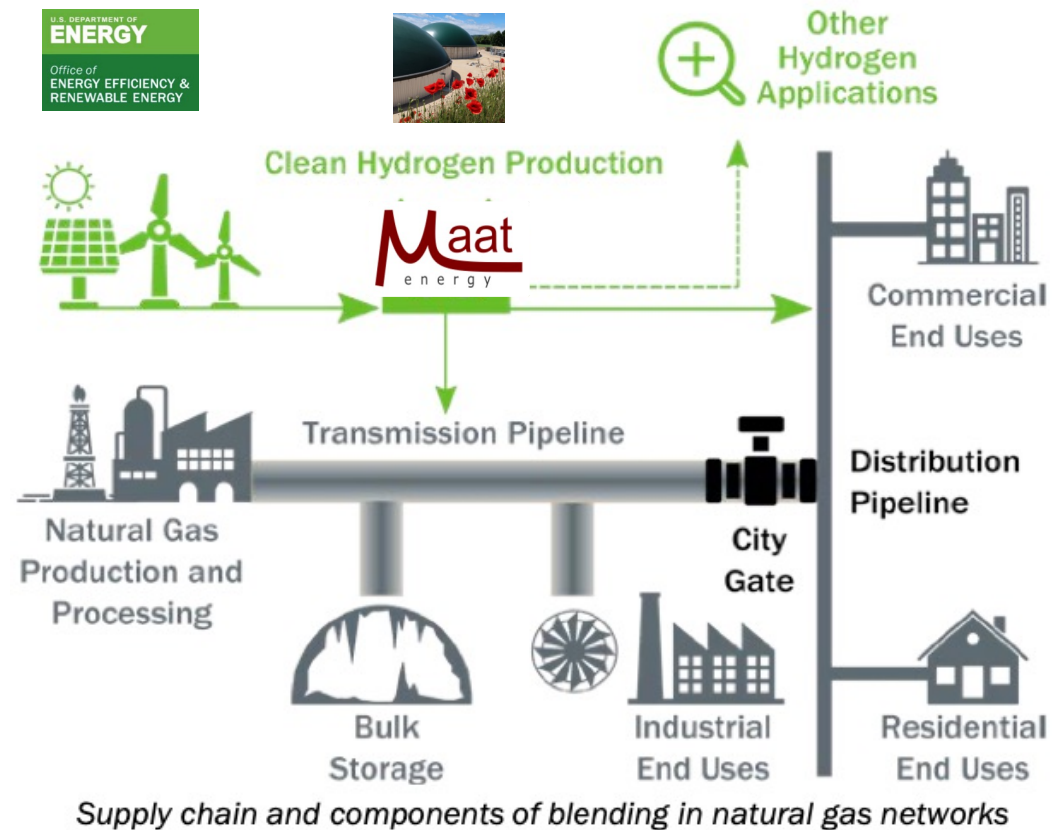
Selling with commercial partners for rapid deployment

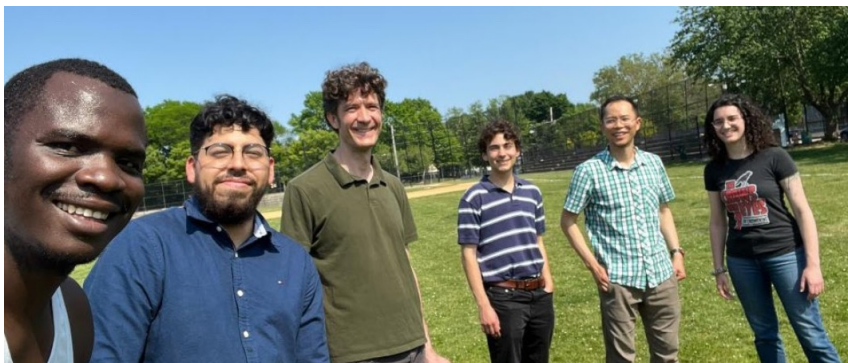


Commercialization Strategy

- Looking for customers and partners for:
 - Converting CO2 into fuels or chemicals
 - Upgrading biogas to hydrogen
 - Blending in natural gas networks
 - Producing high quality hydrogen near points of use

- Positioning in markets for:
 - Delivering products at points of use with unique advantages
 - Developing and owning projects in the US and EU
 - Licensing in other geographies





Atmospheric Microwave Plasma for Energy Decarbonization

KC Tran | CEO MAAT Energy | kc.tran@maatenergy.com