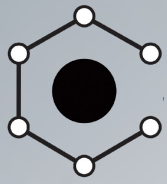




Standard**C**arbon

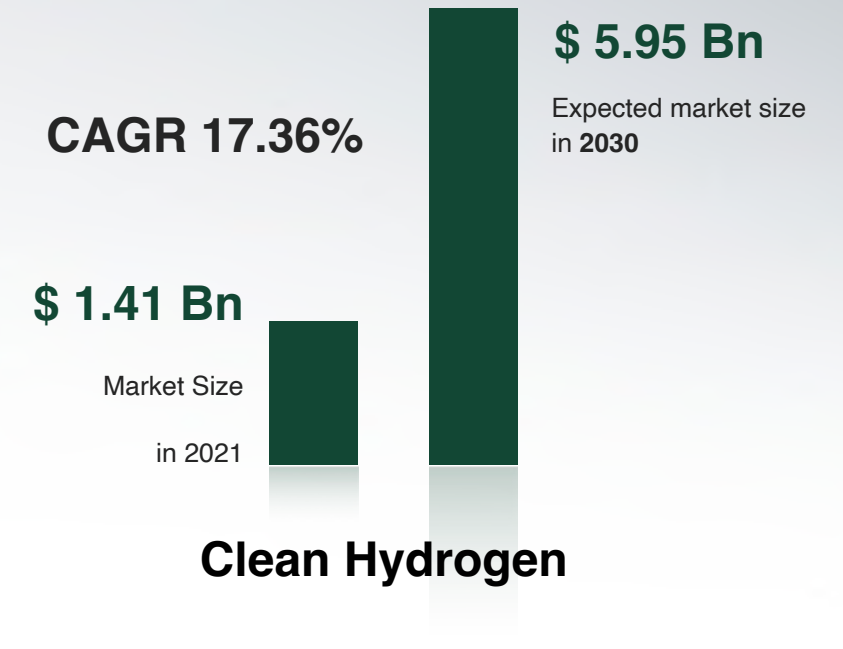
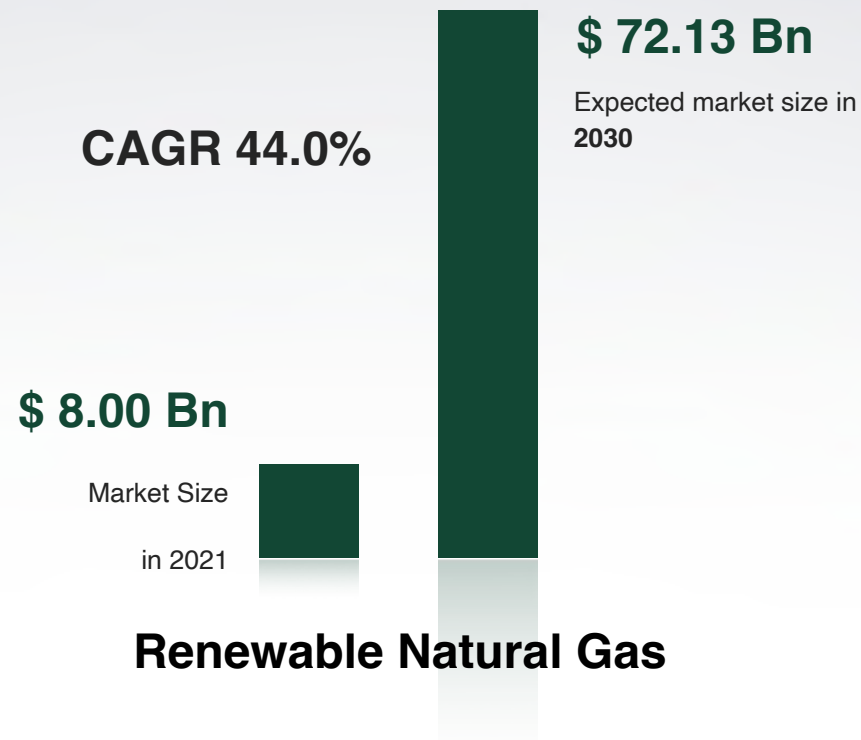
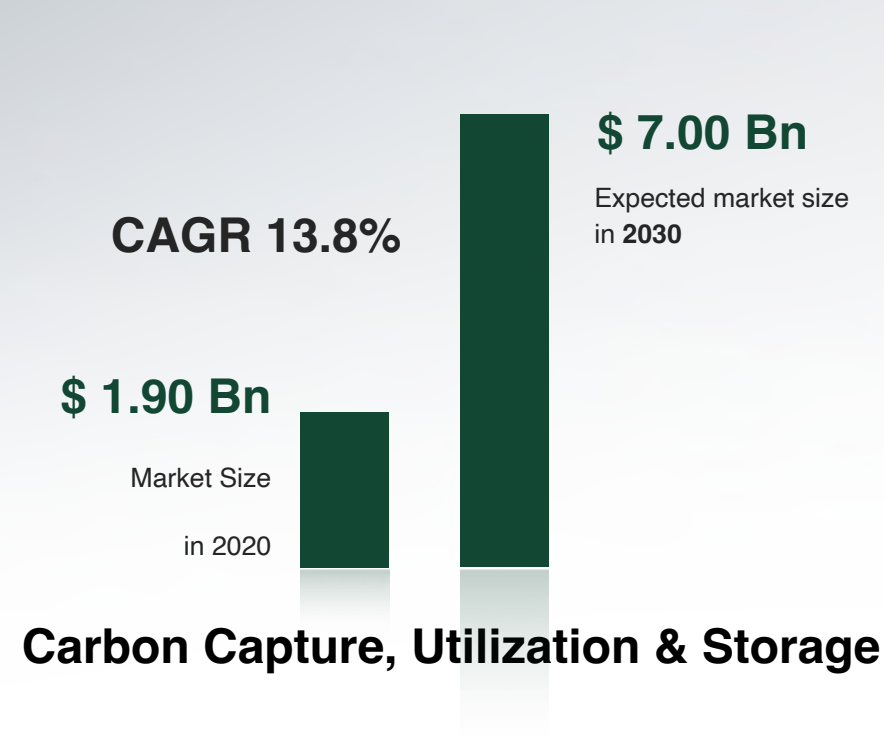
Baseload Renewables



Market Opportunity

StandardCarbon

Standard Carbon Technology is the confluence of **3 growing energy transition markets:**



KEY GROWTH DRIVERS



Cost-efficient RE (solar and wind) generation and clean hydrogen solutions.



Transmission and congestion constraints that require flexibility and storage solutions.



Compliance with decarbonization targets, policies, and regulations.



Price volatility of fossil fuels and renewable electricity.



Write-downs and early retirements on stranded hydrocarbon energy assets.



Federal state and local tax incentives for renewable energy, carbon capture, and clean hydrogen production.

Source: Precedence Research, Allied Market Research.



Decarbonizing Hard-to-Abate Utilities and Industries

Intermittent Renewable Energy (RE) is not compatible with Power Utilities and Industry that rely on a large-scale supply of affordable, reliable, and secure hydrocarbons for heat and electricity



Transmission Congestion and Curtailment of RE

Inverter-based RE creates unique challenges that compromise grid-reliability and safety causing delayed interconnection, increased reliance on hydrocarbon energy and less-favorable economic outlook for RE.



Pure Hydrogen Concerns

Pure Hydrogen is technically difficult to transport and is not without significant safety concerns. Widespread adoption of hydrogen as a fuel will require massive overhauls to energy infrastructures, liability laws and regulations.



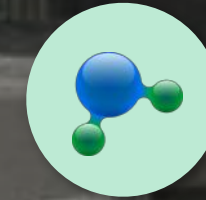
Standard Carbon Technology

StandardCarbon

CO2 Conversion Technology – uses electricity to recycle CO2 in Renewable Natural Gas



Electrolysis splits water into hydrogen & oxygen



Hydrogen is used **directly**, or **combined** with CO2 to create **RNG**

WHY RNG?



Clean and Valuable Fuel

RNG is carbon-neutral, storable and transportable within the vast natural gas network.



Long-Term Energy Storage

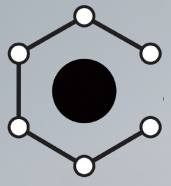
RNG is the only deployable long-term storage solution that provides reliable firm capacity.



Replacing Natural Gas

RNG is the key to rapid decarbonization of utilities and industries that depend on hydrocarbons for heat and power.

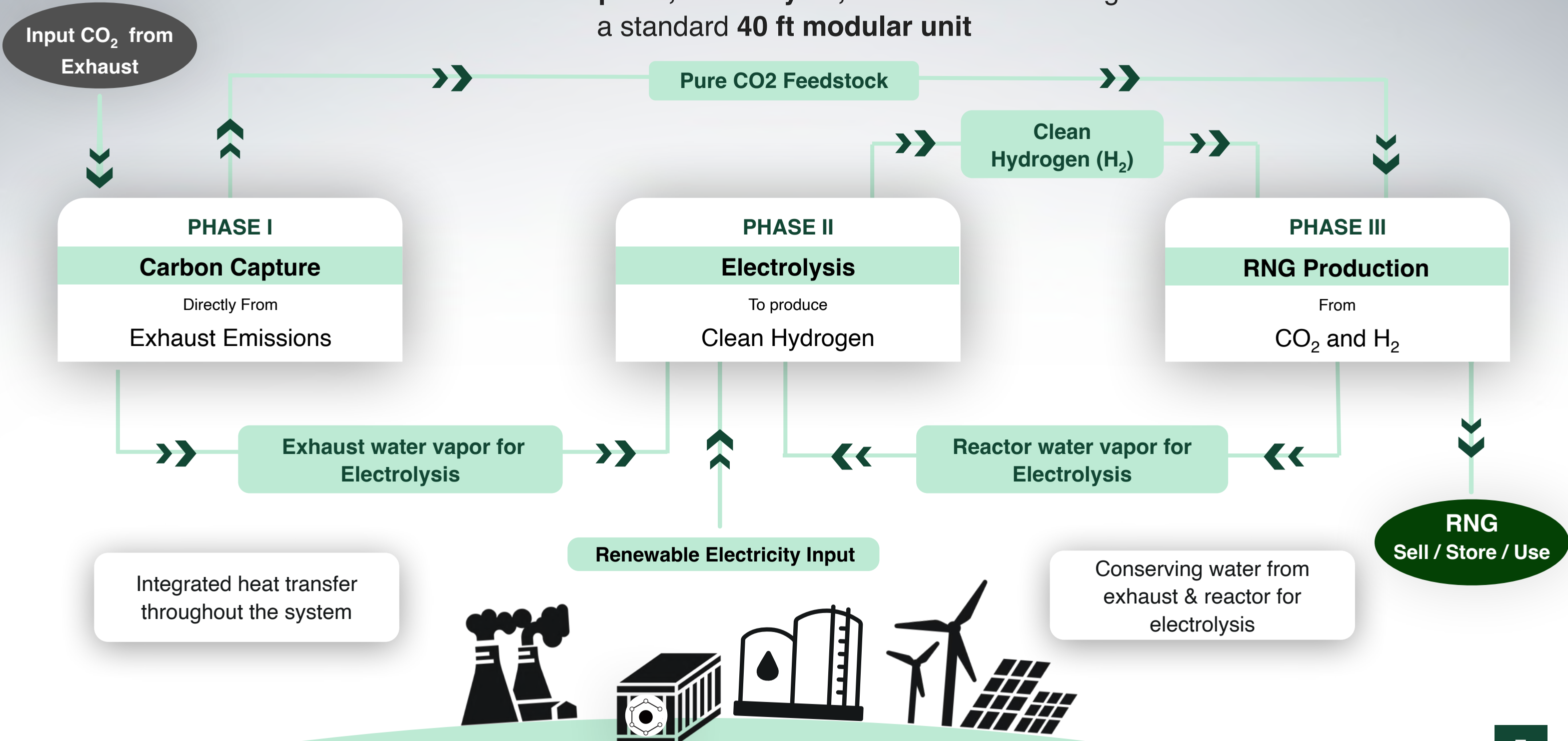
Source: Clean Energy Wire



The Patented Standard Carbon Process

StandardCarbon

Dedicated carbon capture, electrolysis, and reactor are integrated into a standard 40 ft modular unit



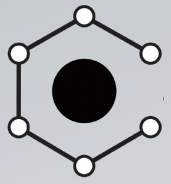


Patented **CO₂ Conversion Technology**: creates clean **H₂** and combines it with captured **CO₂** to produce Renewable Natural Gas (**CH₄**), paving the way to rapid decarbonization.

Avoiding **early retirement** and **write-downs** of energy assets
by
Decarbonizing Power Utilities and Industries

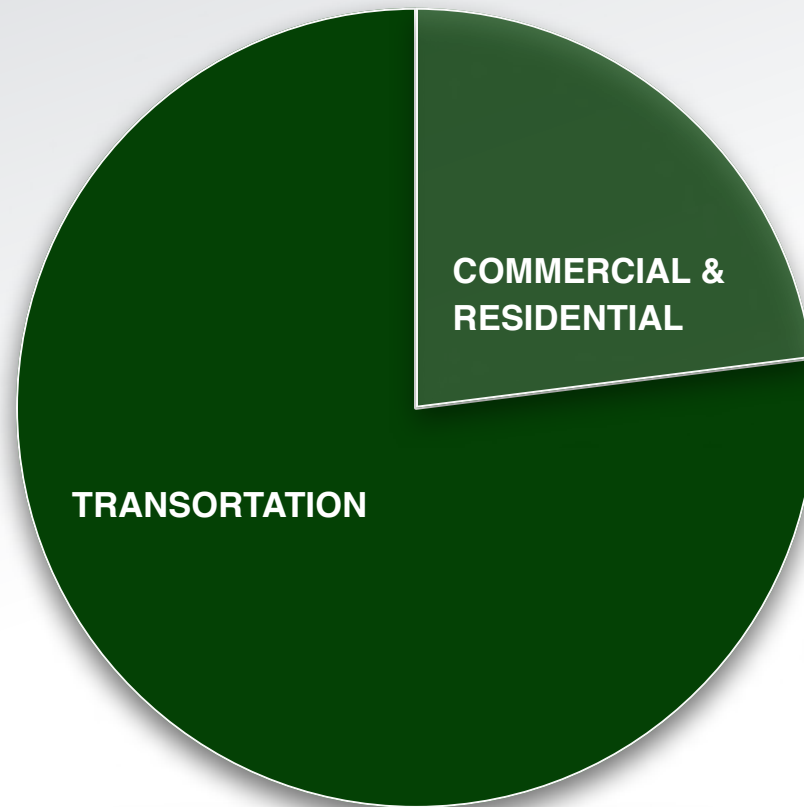
Relieving **transmission congestion** and **curtailment** by diverting excess energy
to
Clean Hydrogen Production

Avoiding **technical and liability concerns** by combining clean hydrogen with pure **CO₂**
to produce
Renewable Natural Gas (CH₄)



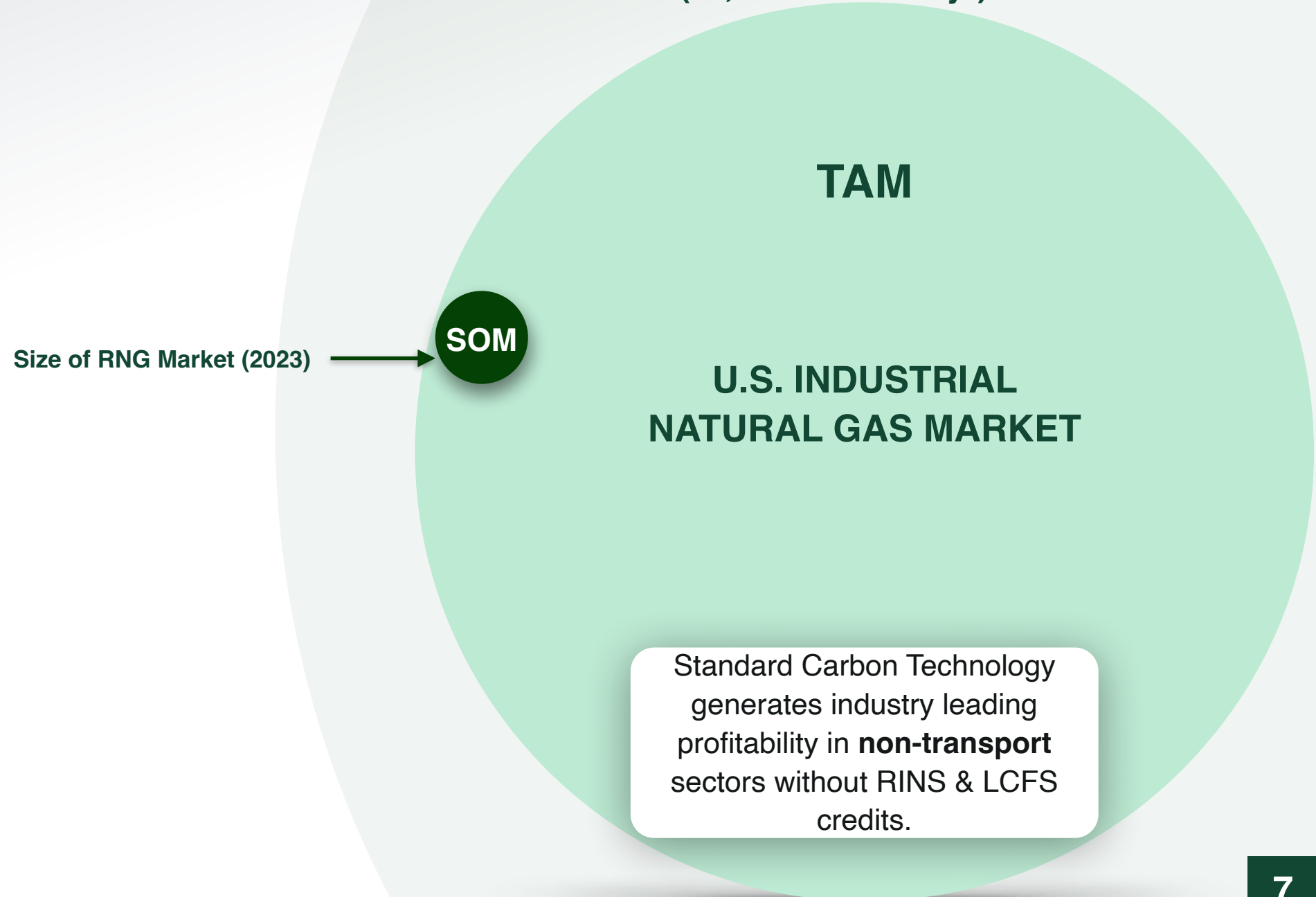
Facilitating Exponential RNG Growth

2023 RNG Market by Sector
(115M MMBtu/yr)

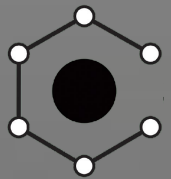


RNG projects flock here because US Policy awards **RINS** and **LCFS** credits for transportation end-use cases.

2023 Total Addressable Market with Standard Carbon
(11,000M MMBtu/yr)



Standard Carbon Technology generates industry leading profitability in **non-transport** sectors without RINS & LCFS credits.



Financial Tailwinds

StandardCarbon

PHASE I

PHASE II

PHASE III

Large Financial Incentives for Standard Carbon's Inputs, Processes and Products

Carbon Capture

45Q Federal Tax Credit
(\$60 / Metric Tonne CO2 Captured)

Qualifies for Carbon Credit Trading Systems

Electrolysis

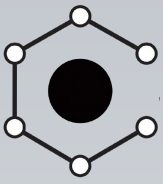
Extended ITC & PTC
(Investment and Production Tax Credit)
for Renewable Electricity

10% CAGR in US deployed RE puts downward pressure on PPA costs

RNG

45V Clean Hydrogen Tax Credits
(\$3 / kg of Clean Hydrogen Produced equivalent to >\$30 / MMBtu of RNG)

Connects with premium RNG markets
(RNG Premium is >\$20 / MMBtu)



Patents, Trade Secrets, and Key Know-How

Core process, controls and modularization is patent protected as well as heat-transfer and configuration which increase efficiency and scalability. Electrolyzer hardware and software is patent pending. All current and future patents are owned by Standard Carbon Technology LLC.

- Patent does not limit to using specific hardware components, allowing for future integration of 3rd party innovations and technologies.



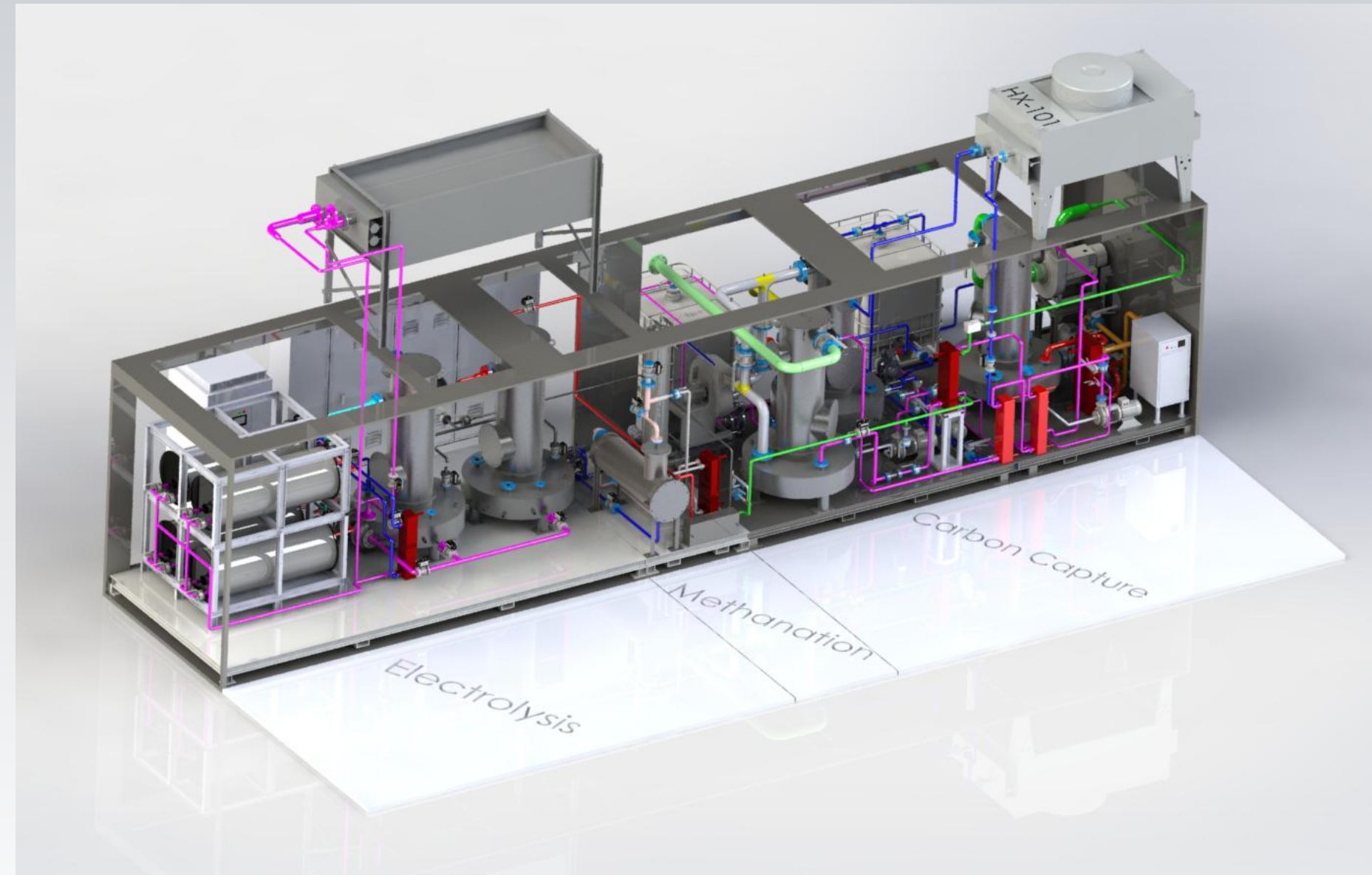
Awarded: [US patent # 11,091,408](#) “Integration of Carbon Dioxide Absorption and Water Electrolysis into Methanation” covers process integration into one modular unit, heat transfer and synergism between performances to maximize efficiency.

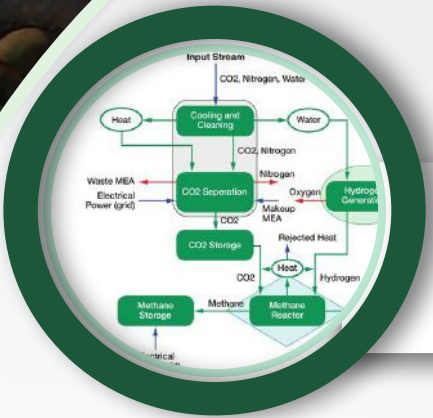


Awarded: [US patent # 17,528,587](#) - “Methanation and Recovery Method, System, and Apparatus” covers product geometry, algorithmic software controls and hardware configurations.

Future: US patent for Short-Interval Alkaline Electrolyzer hardware, configuration, seals, stacks and software. Patent will protect the electrolyzer as a stand-alone unit for multiple applications.

- Potential to patent other aspects of the technology including the methanation chamber, and liquid CO₂ storage system.





8/2021
1st US PATENT AWARDED
 Combining the 3-phase process into a modular unit



12/2021
PROOF OF CONCEPT
 First lab-scale CO2 to CH4 conversion



4/2022
PILOT DEMONSTRATION
 Miniaturization of main components with 10kw electrolyzer



9/2022
ELECTROLYZER DEMONSTRATION COMPLETE
 Original 100kw electrolyzer design and construction achieves %99.9 pure hydrogen



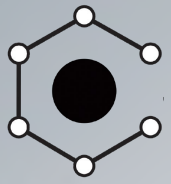
4/2023
2nd US PATENT AWARDED
 Covering product geometry, algorithmic software controls and hardware configuration



8/2023
COMMERCIAL INSTALLATION
 Complete 1MW unit recycling 1420 MT CO2 into Natural Gas

Decarbonizing Industry in 2024

Protected by multiple patents, and following successful completion of the first commercial installation, Standard Carbon is staged to scale performance and manufacturing capacity by orders of magnitude



EV Supercharge



Q4 2023

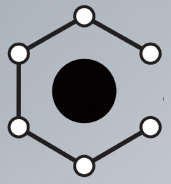
Standard Carbon's first commercial demonstration in Israel arbitrages off-peak grid electricity to power premium-priced EV supercharging stations. This closely monitored demonstration is achieving technical KPI's while exploring a practical, revenue-generating application.

3 GW Utility



Q1 2024

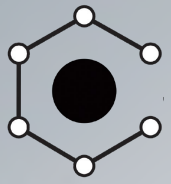
In partnership with Israel's national grid operator, at a 3 GW combined cycle natural gas power station. This project will demonstrate the ability of Standard Carbon technology to integrate with utility-power infrastructures and deliver reliable, carbon-neutral power to the nation's electrical grid.



Competitive Landscape

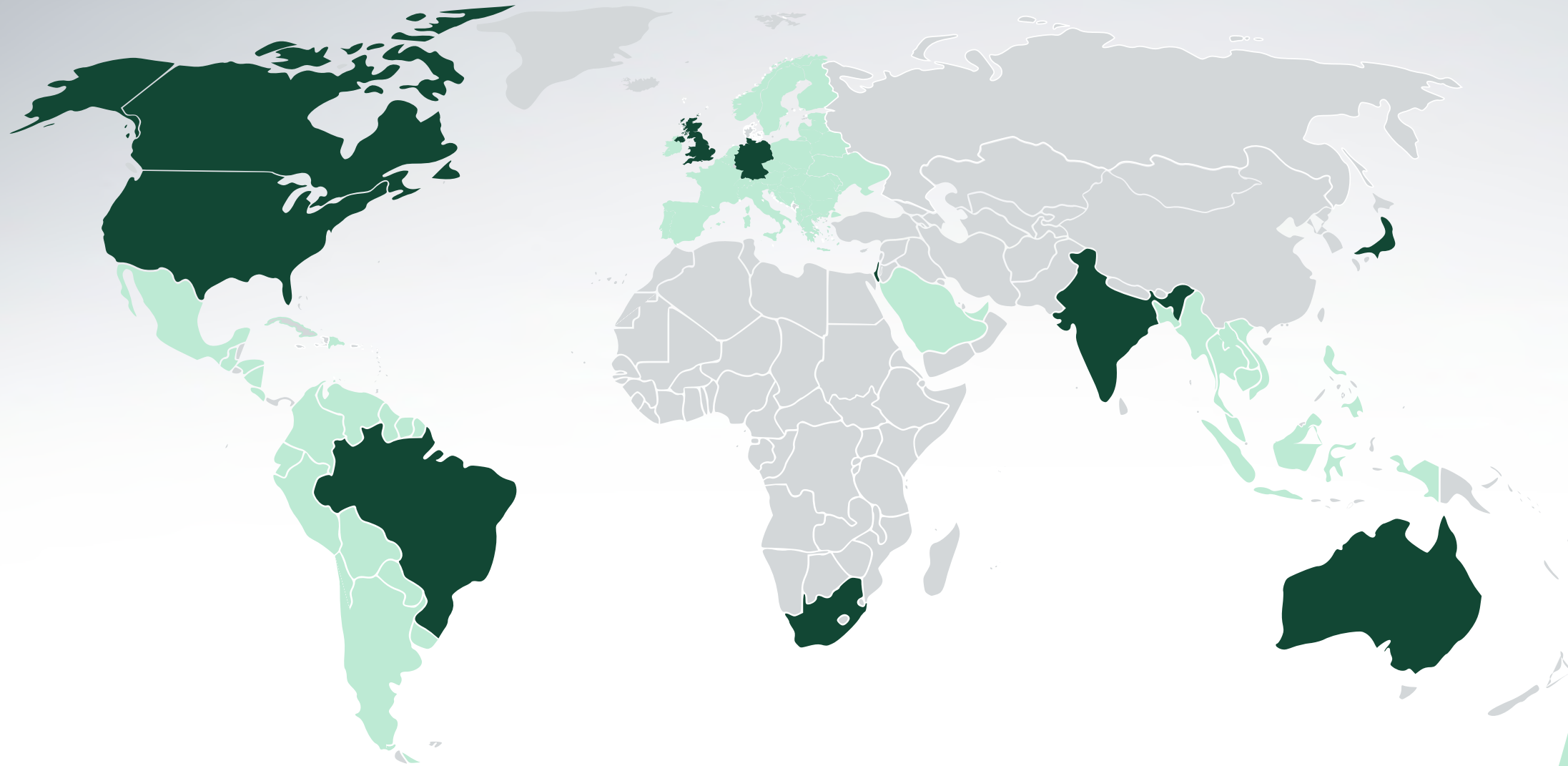
StandardCarbon

| | >90% CO ₂ Elimination from Combustion Emissions | Increases Grid Flexibility | Long-Duration RE Storage | Scaleable Production of Net-Zero Energy Commodity | Eliminates Inverter CAPEX |
|--------------------------------|--|----------------------------|--------------------------|---|---------------------------|
| StandardCarbon | ✓ | ✓ | ✓ | ✓ | ✓ |
| H ₂ PRO | ✗ | ✓ | — | — | ✓ |
| Anaergia | ✗ | ✗ | ✗ | ✓ | ✗ |
| Carbon Engineering | — | — | ✗ | ✗ | ✗ |
| Synhelion solar fuels | ✗ | ✗ | ✓ | — | ✗ |
| Highview Power [®] | ✗ | ✓ | ✓ | ✗ | ✗ |



Target Market

StandardCarbon



Primary Sectors to Reach

Heavy industrial manufacturing users with significant decarbonization goals;

- Cement
- Steel
- Aluminum
- Plastics

STAGE I

- Manufacturing Facilities
- Utility RE Projects
- Utility Heat and Power
- EV Charging
- Anaerobic Digesters

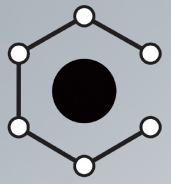
STAGE II

- Renewable Energy Storage
- Gas Distribution Networks
- Global Shipping
- Green Ammonia

GEOGRAPHIES TO REACH

Primary Target : USA, Canada, Israel, UK, Germany, Australia, Japan, Brazil, South Africa, India

Secondary Target : Central & South America, Europe, Saudi Arabia, UAE, SE Asia



Accelerating Market Adoption



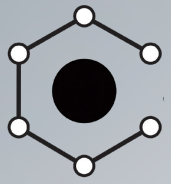
Build an institutional narrative as the leading provider of RNG for industry and utility power markets.



Sign voluntary off-take contracts for 100M MMBtu annually.
Oversee EPC of 13 GW of electrolyzer capacity by 2026.



Raise & deploy \$3 billion of project level equity.
Arrange a \$3 billion project level debt facility.



Deployment Strategy

Four key counter parties are critical for successful deployment at scale:



Project Equity Investors

Want to See KPI's Achieved

Need to be convinced that the project will deliver target returns within defined timeline and risk parameters.



EPC

Cautious with Contract Commitments

Need to negotiate standard contracts that include defined performance criteria, build timelines, and costs for the Standard Carbon technology.



Industrial Off-take Customers

Cautious with Operational Integrity

Need to be convinced that the insertion of Standard Carbon's technology into their processes will deliver the projected carbon reduction benefit without disrupting normal commercial operations.



Project Finance Lender

Risk Averse, High Due-Diligence Bar

Contracts between Standard Carbon, EPC and Off-taker will convince the project finance lender of the project's bankability.

Projects will qualify for a direct loan or loan guarantee from the US Department of Energy's Loan Program Office.

Executing milestones will lead to a financial flywheel...



Dell Perelman CEO

- Over 3 decades of experience as General Counsel & Chief of Staff for the American Chemistry Council representing petrochemical interests
- JD & LLM in Environmental and Energy Law



Chief of Staff & General Counsel
 American Chemistry Council
 Apr 2003 - Jan 2020 · 16 yrs 10 mos
 Washington DC



Boris Dvinsky - Vice President and Investor Relations

- Founder of Elaris Technologies: An algorithmic trading system managing \$150m AUM
- Managed a \$250m derivatives book at HSBC, NY
- Senior researcher at Millennium Partners
- MS in Financial Mathematics from University of Chicago



Founder/CEO
 Borana Solutions
 2021 - Present · 2 yrs 3 mos



Founder/CEO
 Elaris Technologies
 2014 - Present · 9 yrs 3 mos



Managing Partner
 Concentus Partners
 2017 - Present · 6 yrs 3 mos



Benyamin Clayman - Vice President and Business Development

- Serial investor with multiple exits & strong history of sales and management of engineering teams & product
- Founder of Israel Center for Entrepreneurship
- US Army Reserve Officer
- BA from University of Chicago



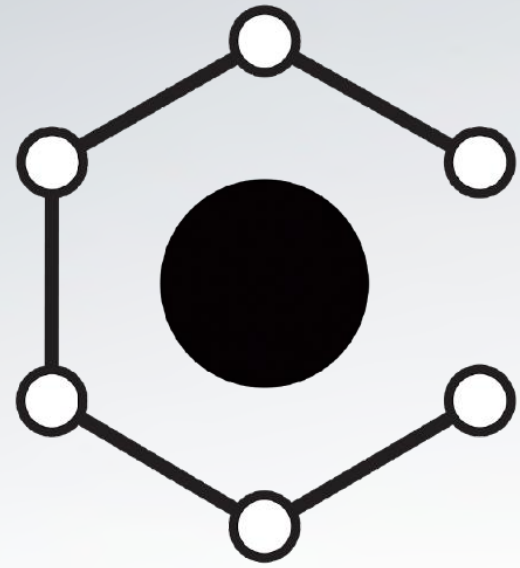
Managing Partner
 2711 Ventures
 Feb 2016 - Present · 7 yrs 2 mos



Founder
 Israel Center for Entrepreneurship
 Jan 2016 - Present · 7 yrs 3 mos



Chaplain
 United States Army Reserve · Part-time
 Jun 2020 - Jun 2022 · 2 yrs 1 mo



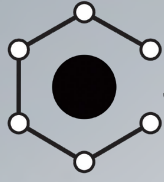
Standard**Carbon**

Let's Connect!

standardcarbon.com



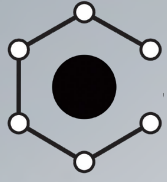
info@standardcarbon.com



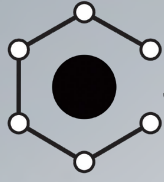
Pilot Demonstration 10/2022



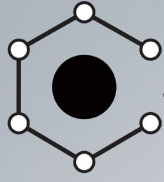
Pilot Demonstration 10/2022



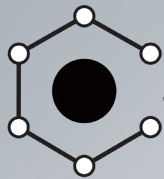
Commercial Demonstration 8/2023



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