Overview

Grimes Carbon Tech (GCT) A net negative green technology company changing the world

January 2025

(4) Increasing efficiency of energy production



Grimes Carbon Technologies (GCT): Developer, Owner, Operator 30-75% cheaper, abundant baseload energy for Data Centers

Distributed, on-demand green hydrogen and electricity (CAPER)

Long Duration Energy Storage ('Liquid Grid / CCR')

GCT -- Investment Opportunity:

- \$54 million invested since 1987, majority owned by founding team
- \$2 million SAFE note at 25% discount for initial US setup
- \$12 million SAFE note Scale up to beta testing and to develop commercial field unit, and hire c-suite

Problem: The Energy Transition is failing Energy production & distribution is inefficient & environmentally unsustainable

Energy demand exceeds capacity

- Tesla Supercharger = 500 unit apartment building
- Data Centers = 8% of US Electricity (4x "Miamis")
- Need significant build out of power AND transmission and distribution lines
- Data centers need reliable 'baseload' energy





Increasing capacity is expensive & slow

- Cheap renewables can't provide enough reliable electricity (4+ years to develop)
- Natural gas, coal, and nuclear are expensive and even slower to develop
- Burning fuel is 30-40% efficient and harmful

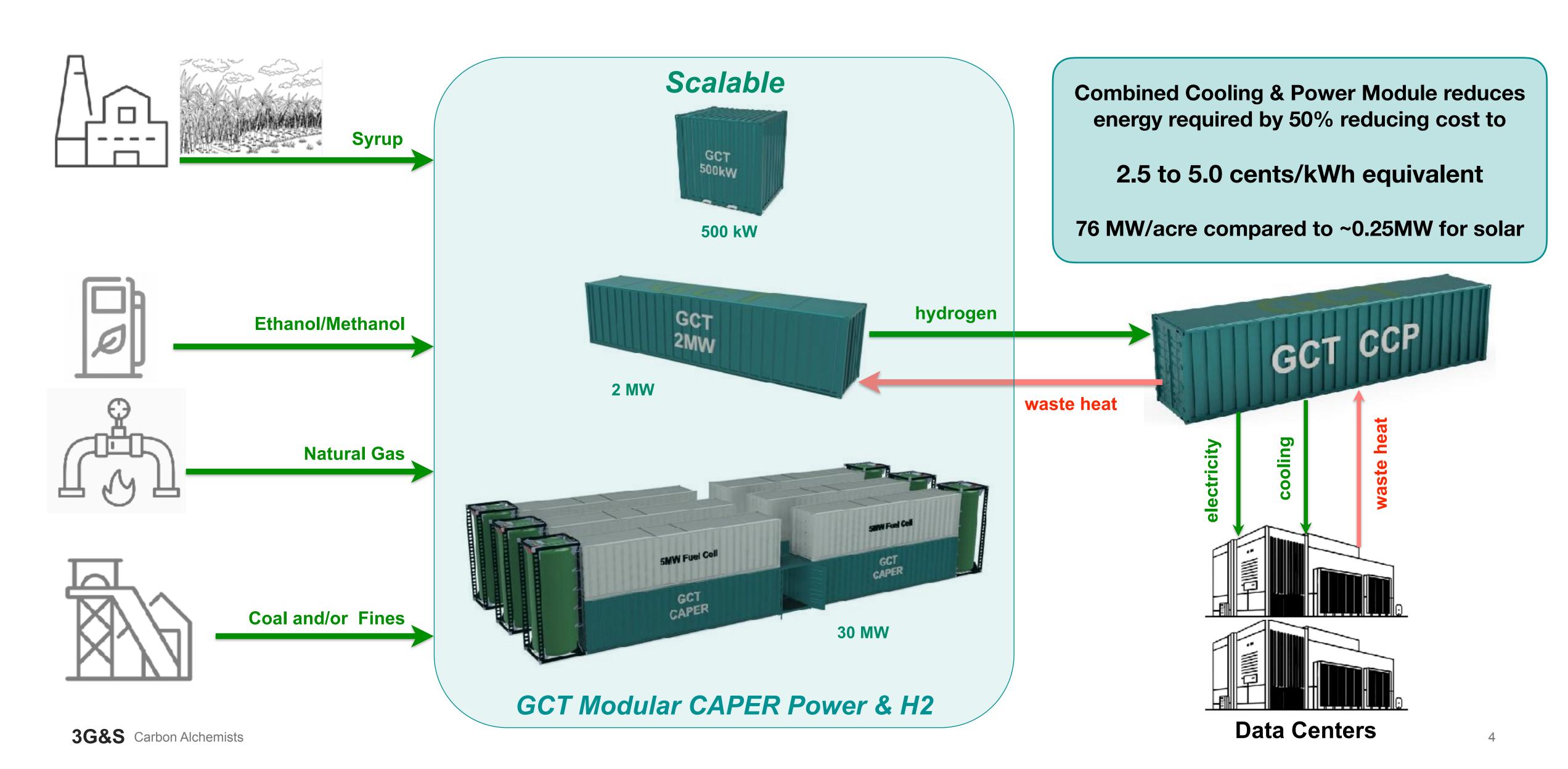




GCT: 70% efficient, distributed, on-demand, cheap net zero energy & fuels profitably without combustion

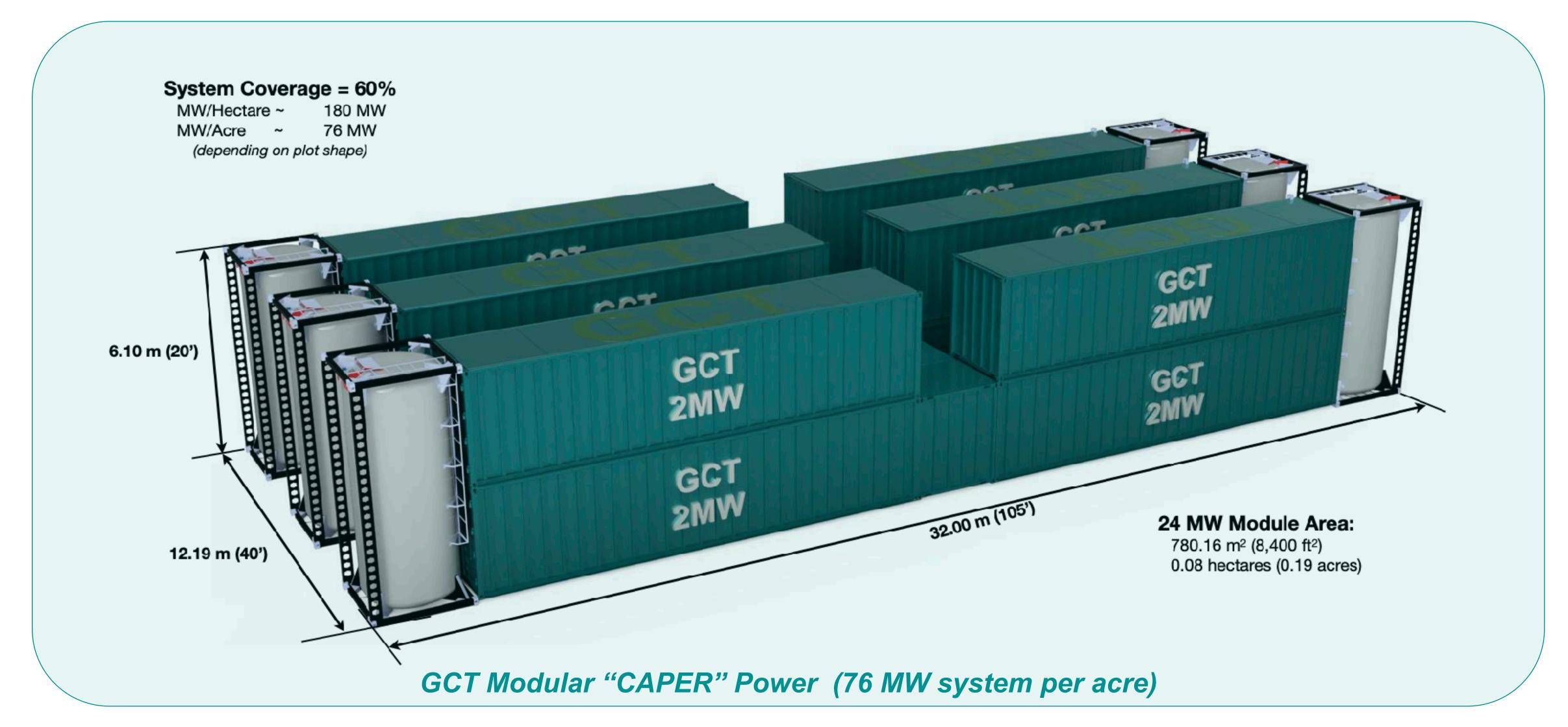
GCT: scalable, high-efficiency energy

On-site, on-demand hydrogen & electricity from multiple feedstocks



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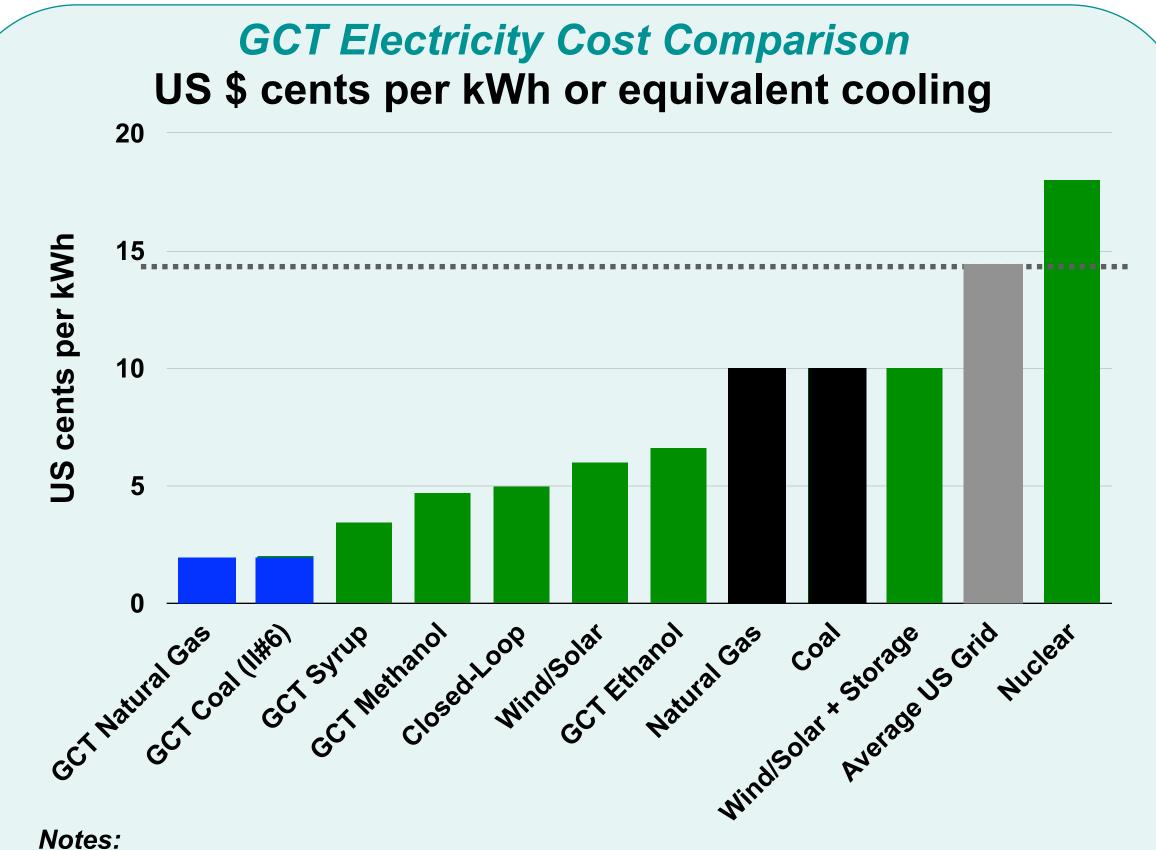


GCT: US Hydrogen market expected to grow by 70% by 2052

GCT energy is only cheap green energy solution for Data Centers

GCT's Cheap, Distributed Power

- Cheap, on demand (reliable) green energy
- Energy produced directly on-site no need for transmission or distribution systems
- Scales quickly (add containers) to meet Data Center demands
- Data Center waste heat recovered and used to drive cooling (CCP) reducing energy by 50%
- Requires limited space (1,100 racks per acre). 76MW of power fits on one acre of land



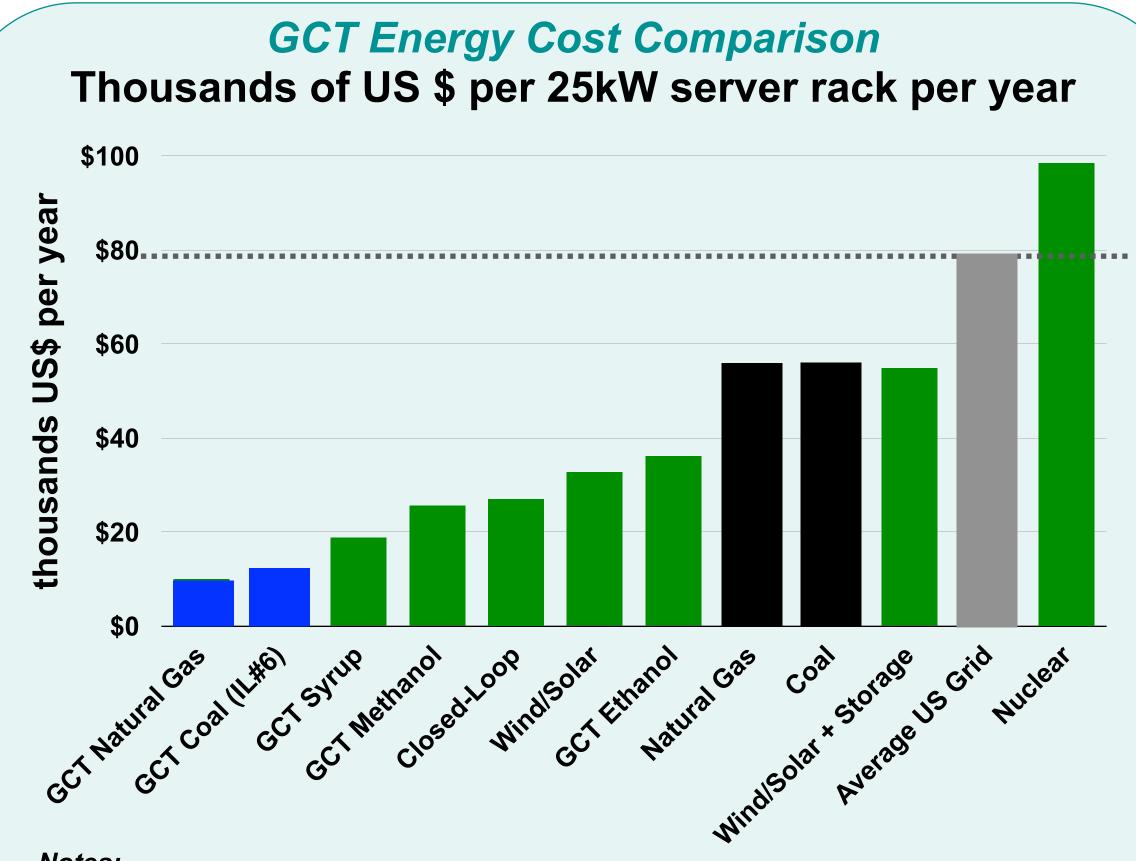
- GCT energy is dispatchable (always available), unlike intermittent renewables
- GCT costs reflect the reduction in demand enable by waste heat recovery
- GCT costs DO NOT INCLUDE eligible tax credits & sale of CCR oxygen co-product
- Only US Average includes transmission & distribution costs (T&D
- Other competing costs would be higher with T&D included

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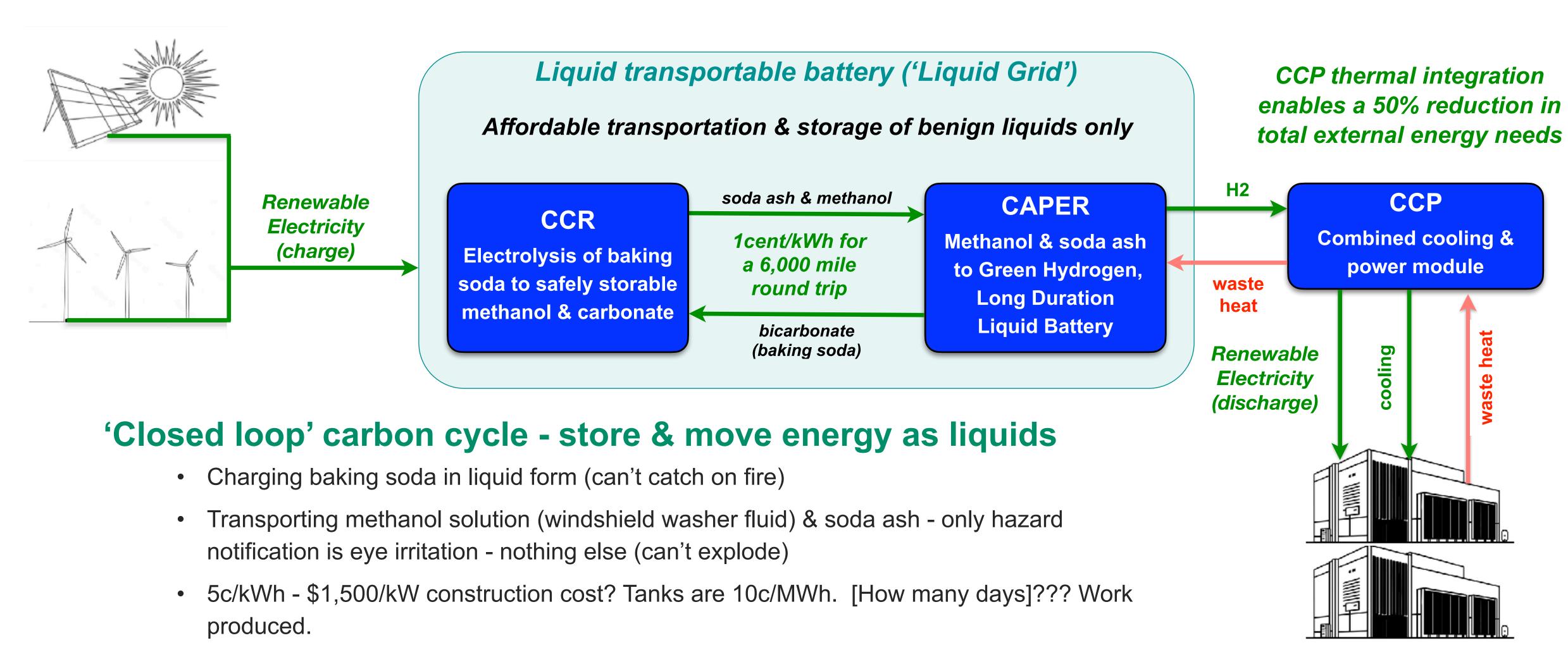
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GCT: Breakthrough chemistry for storing & transporting energy Long duration (moveable) energy storage



Affordable transportation of energy anyhere (ship, barge or rail)

Affordable on-site storage, < 10 cents per MWh capital cost

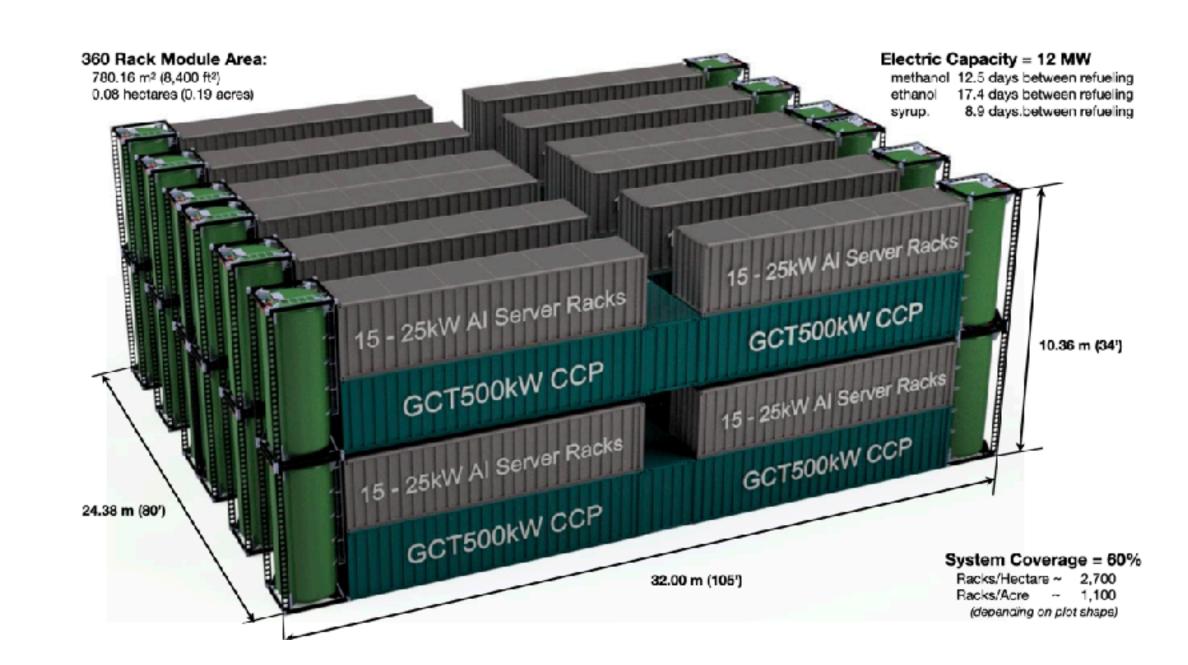
Data Centers

GCT: Improving how we energize everything

Carbon emissions reduction of 50-75% or to zero

GCT enables cheap reliable green energy for data centers

- Distributed electricity anywhere, on demand
- Base load electricity between 1.8c-6.6c/kWh
- Scalable and quick to build with benign feedstocks
- Closed-Loop configuration can convert intermittent wind & solar to affordable baseload



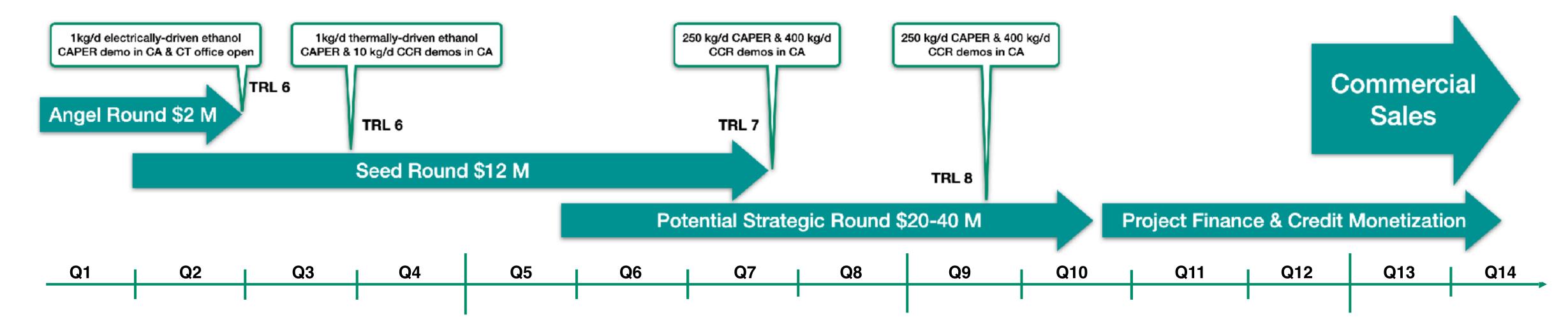
GCT to become a producer of Hydrogen, Electricity, and E-fuels

- Develop, construct, own and operate units to sell Hydrogen, energy, or SAF
- Similar to a traditional power models with Independent Power Producers
- GCT (through holding company 3G&S) owns all IP
- Founders own majority equity raising capital to make this a reality

GCT: Improving how we energize everything

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Funding Needs



Financials and next steps

- Historical spend of \$50m over 30 years with \$110,000/month burn rate
- \$2m SAFE note at 25% discount: to establish office, lab and team, business development, and to move 1-2kg/day demos to the US Follow clients / industry to secure offtake
- \$12 million SAFE note: to scale up to 250 kg/d, move technology from TRL 6 to TRL 7, develop commercial field unit, and hire c-suite
- High operating margins means operating cashflow can fund majority of future capex

The Current Operating Team: search & recruitment start immediately Builds on decades of relevant industry experience and innovation

Deep and diverse experience across carbon recycling, hydrogen, electrochemistry, chemicals, fuel synthesis, biorefining & feedstocks



Joseph Maceda in Founder

- Successful serial entrepreneur
- 35 years of experience in carbon recycling & hydrogen



Robert Zhao, PhD Chief Scientist

- Co-founder of liquid & solid composite hydrogen fuels business
- 35 years of experience in electrochemistry



Frank Nadimi Commercial Director

- Biofuel Consultant at S&P Global
- 15 years of experience in biomass, renewables,
 & chemicals



Gary Noland In Project Manager

- Lockheed thermal energy conversion technology expert
- 40 years of experience in aerospace, fuel cells, hydrogen & renewables

The Advisory Team

Significant deal track record and industry expertise

Deep and diverse experience across operations, finance, strategy, risk, law, and technology



Jonathan Ball IP & Legal

in



- Partner/ Shareholder at Greenberg Traurig, LLP
- 20+ years of experience in Intellectual Property law



Beth Browde
Strategic Communication

- Senior Principal MercersChange Management
- Business Strategy & Leadership

in



Joseph Godfrey Risk Management



- 50 years in insurance & risk management
- Exec Compensation Consultant to KPMG
- Author or Co-Author for CCH: CPA Journal



Su Ha Professor, Science

- Director of School of Chemical & Bioengineering at WA State University
- PhD in Chemical Engineering specializing in catalysis and electrochemistry



in

Steve Johnson CFO, Finance

- CFO at Marpai & HillCour
- 25+ years of total corporate finance experience, including 7 years in c-suite



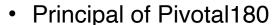
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Holger Koehler Strategy

- Head of Strategy at Electra
- Former Managing Director at Accenture
- 25+ years of experience in consulting & strategy



Haydn Palliser Finance



- Professor at Columbia/Yale
- 20+ years of experience in renewable energy finance



Candace Quinn Legal & Tax

- Partner/Shareholder of Buchanan Ingersol PC
- Former Partner in international law & accounting firms
- 35+ years of experience in tax
 & energy law



Maneesh Sagar Technology

- CEO of RS Metrics, MD Thynk Ventures
- 25 years of experience as a founder & investor with 10 successful exits



Tifphani White-King Tax & Legal



- Partner Forvis Mazars
- Global Tax Committee Member
- US Tax Committee Member

Current Partners

Leading industry players and investors attracted to GCT

Government

Awarded a contract for development of ethanol CAPER systems for off-grid charging but announcement must be made by the awarding agency





Academic / Research







Corporate / Financial

Asian Sovereign Wealth Fund disclosed upon signing of NDA





Auto manufacturing partner disclosed upon signing of NDA

> EV charging partner disclosed upon signing of

NDA

Utility partner disclosed upon signing of NDA



For more information about the company or offering documents contact:

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