Accelerating the Energy Transition

European Gasification Summit Milan, Italy March 19-20, 2025



Forward – Looking Statements

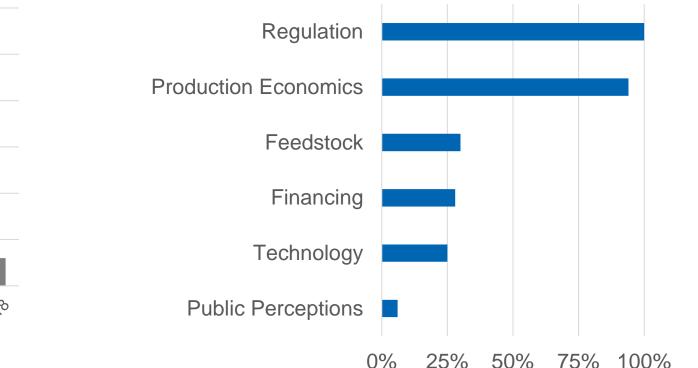
This presentation includes "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended (the "Securities Act"), and Section 21E of the Securities Exchange Act of 1934, as amended (the "Exchange Act"). All statements, other than statements of historical facts, included in this presentation that address activities, events or developments that we expect or anticipate will or may occur in the future, including such things as future capital expenditures (including the amount and nature thereof), business strategy and measures to implement strategy, competitive strength, goals, expansions and growth of our business and operations, plans, references to future success, reference to intentions as to future matters and other such matters are forward-looking statements. These statements are based on certain assumptions and analyses made by us considering our experience and our perception of historical trends, current conditions and expected future developments as well as other factors we believe are appropriate in the circumstances. Forward-looking statements are subject to certain risks, trends and uncertainties that could cause actual results to differ materially from those projected. Although we believe that in making such forward-looking statements our expectations are based upon reasonable assumptions, such statements may be influenced by factors that could cause actual outcomes and results to be materially different from those projected. We cannot assure you that the assumptions upon which these statements are based will prove to have been correct. We have no intention, and disclaim any obligation, to update or revise any forward-looking statements, whether as a result of new information, future results or otherwise.



Challenges in Meeting the Sustainable Potential of Advanced Biofuels The \$3.6 Trillion Dollar Problem

Annual Global Biofuel Investment \$30 \$25 \$20 \$20 \$15 QS 10 \$5 \$0 2G Biofuels ■1G Biofuels

Industry Experts' Weighted Sentiment on Adv. Biofuel Barriers





UNEP/BNEF (2018), *Global trends in renewable energy investment 2019*, https://wedocs.unep.org/bitstream/handle/20.500.11822/29752/GTR2019.pdf (accessed 14 October 2019). IRENA (2023a), *World Energy Transitions Outlook 2023: 1.5°C Pathway*; Preview, International Renewable Energy Agency, Abu Dhabi.<u>World Energy Transitions Outlook 2023: 1.5°C Pathway (irena.org)</u> IRENA (2019), *Advanced biofuels. What holds them back?*, International Renewable Energy Agency, Abu Dhabi. <u>Advanced biofuels: What holds them back?</u> (irena.org)

SunGas Backdrop

GTI Energy formed SunGas in 2019

- GTI Energy leverages the expertise of its trusted team of scientists, engineers, and partners to deliver impactful innovations needed for low-carbon, low-cost energy systems worldwide. GTI Energy has secured more than 1,000 patents and invested more than \$400 million in its gasification technology.⁽¹⁾
- SunGas was created to play a meaningful role in the energy transition as a pathway for low carbon advanced biofuels that can be produced at scale

Since 2019, the SunGas team has brought together recognized experts to productize the technology, and execute a business model, establishing the company as a leader in the scaled advanced biofuels space by:

- Supplying SunGas technology and equipment solutions to 3rd party customers
- Launching its fuels production business to develop, build, own and operate an installed base of SunGas energy projects in selected energy market verticals

On May 14, 2024, SunGas and C2X announced a strategic partnership and C2X's investment in SunGas. Together, SunGas and C2X aim to develop, own, and operate multiple green fuel production facilities in North America to increase the supply of sustainable fuels and advance global decarbonization and de-fossilization of hard to abate industries.







SunGas & C2X Accelerate Green Methanol Production

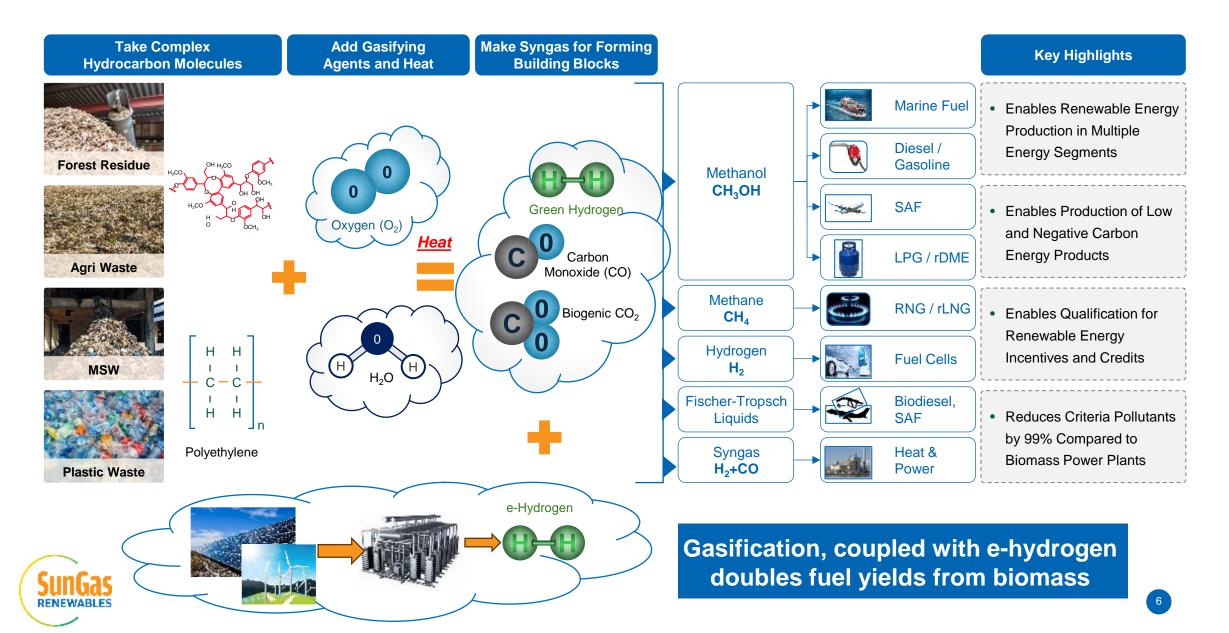
Creating Unparalleled Ability to Deliver Replicable, Scalable, Flexible and High Return Projects

	C2X	SunGas	Combined Capabilities
Primary Business	 Construction and operation of large-scale production facilities Investing in multiple green molecule production pathways (initially e-methanol and bio-methanol) 	 Global sales and licensing of gasification technology and equipment Focused on renewable synthesis gas ("Syngas") related opportunities 	Accelerated Project Development and Technology Evolution to GenN Accelerated Deployment of
Technical Expertise	 Experience adapting technologies to regional resources and requirements Integration of renewable energy, green H₂ and carbon capture & storage (CCS) within projects 	 Full-service provider of gasification technology with optimized biomass-to- syngas conversion process Proprietary high-efficiency scalable gasification systems based on the S1000 	Derisked Gasification Technology & Pathway to Multiple Products and MarketsImage: Content of the second sec
Development/ Commercial Expertise	 Comprehensive project planning & execution capabilities Unparalleled strategic access to customers and markets⁽¹⁾ 	 S1000 standardized design Gasification projects with diverse feedstocks 	Expanded Commercial & Technical Expertise
Regional Focus	 EMEA focused with projects in Spain and Egypt 	 NA asset focus with FEED-ready project in Louisiana, USA (i.e. Beaver Lake Renewable Energy) 	Global Focus

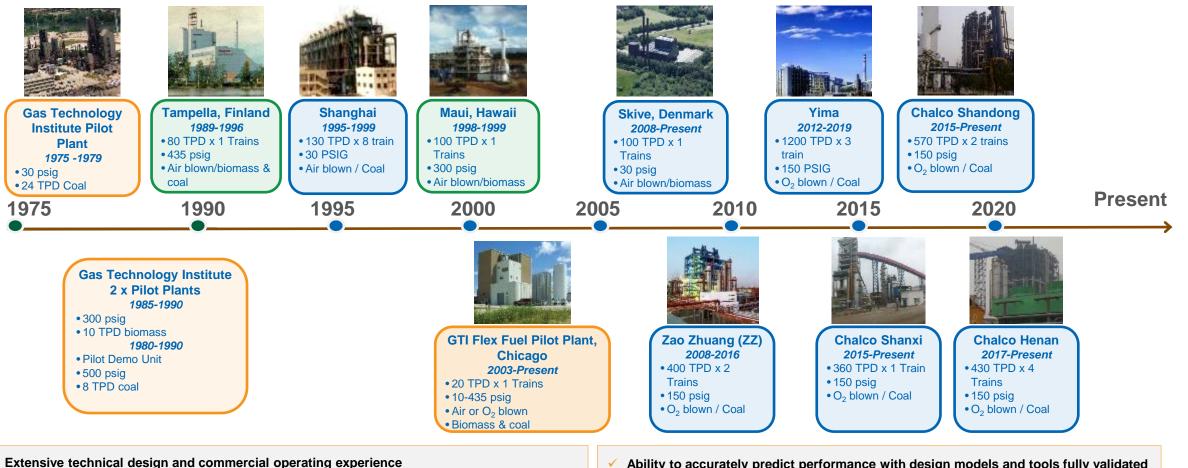


⁽¹⁾ AP Moller Holding and Maersk are shareholders in C2X

Gasification Provides Optionality to Produce Multiple Products



Leading Gasification Technology With Proven Results



- ✓ Total of 27 Gasifiers operated with 50 years of experience with biomass and coal as feedstock
- ✓ 100% gasifier success rate for syngas quantity and quality no failures to perform

Ability to accurately predict performance with design models and tools fully validated
 Current gasifiers operating in China and Denmark achieve >90% availability without redundancy

RENEWABLES



SunGas Pilot and Demo Plants Processed All These Feedstocks

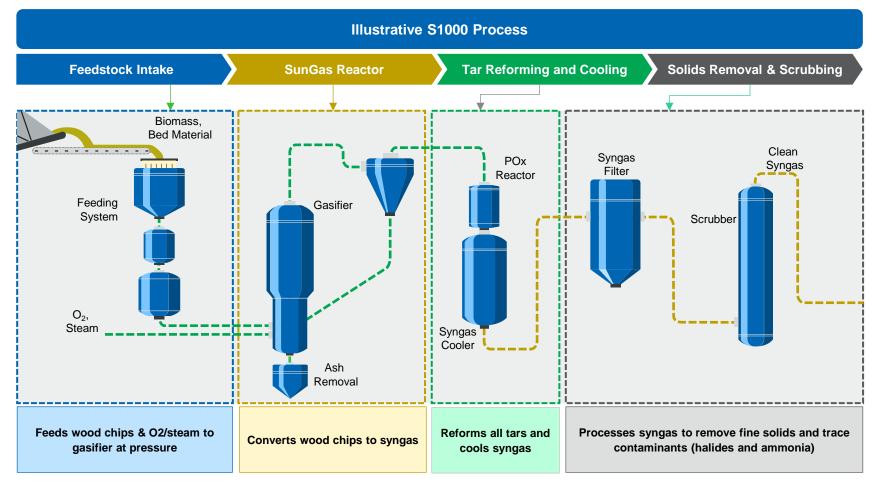


Overview of SunGas' Competitive S1000™ Product

High Technology Readiness Level Ensures Industry Leading Uptime and Yields

S1000 Technical Highlights

- Reliable and flexible feedstock feeding system with minimal pre-treatment
- For woody biomass, no requirement for expensive torrefaction or pelletization
- Bubbling nature of fluidized bed provides even temperature distribution
- Bed volume provides large thermal mass to moderate feedstock variance
- Long refractory life (>10 years)
- Effective reforming of all tars to high purity syngas
- Less than 0.3% methane in syngas
- Commercially demonstrated and reliable radiant syngas cooler designed for both dry solids and slagging conditions
- Additional raw syngas cleaning by:
- Syngas filtration to remove solids
- Syngas scrubbing to remove chlorides and excess moisture





S1000 Fully Designed Equipment and Gasification Island

Key Supply Chain is Actively Managed to Improve Cost, Quality and De-risk Project Execution

SunGas S10	00 Desig	gn Strategy
Approach		Benefits
Standardized design Low fabrication complexity Extensive use of widely available materials Additional performance margin built in		 Reduced engineering costs More rapid and reliable project execution Accelerates cost reduction learning curve Enables large supply chain optimization opportunities
Supplier / Ven	dor Sou	rcing Strategy
Approach		Benefits
Multiple sourcing options Top-tier, experienced suppliers Established preferred vendor		 Flexible sourcing Reliable supply chain Low counterparty risk

relationships with critical suppliers

Most suppliers include on-site

startup support

installation, commissioning and

- Strong supplier assistance
- Support during the most crucial points of each project

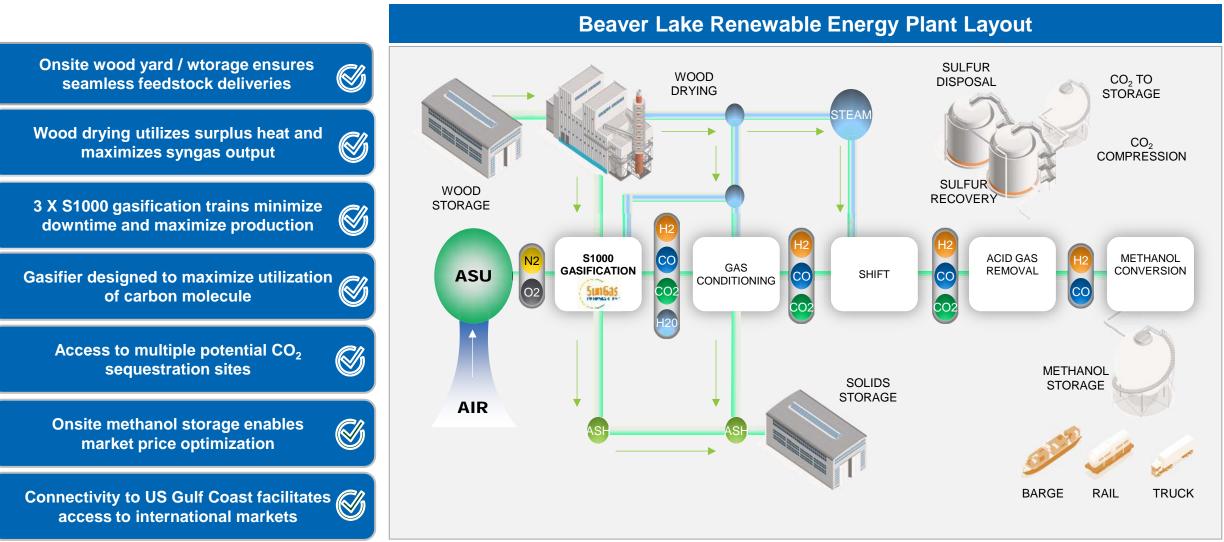


Beaver Lake Renewable Energy (BLRE)

SunGas is developing the largest green methanol project in North America. At COD in early 2029, the project will produce nominally 500 ktpa with plans for five more similar sized projects

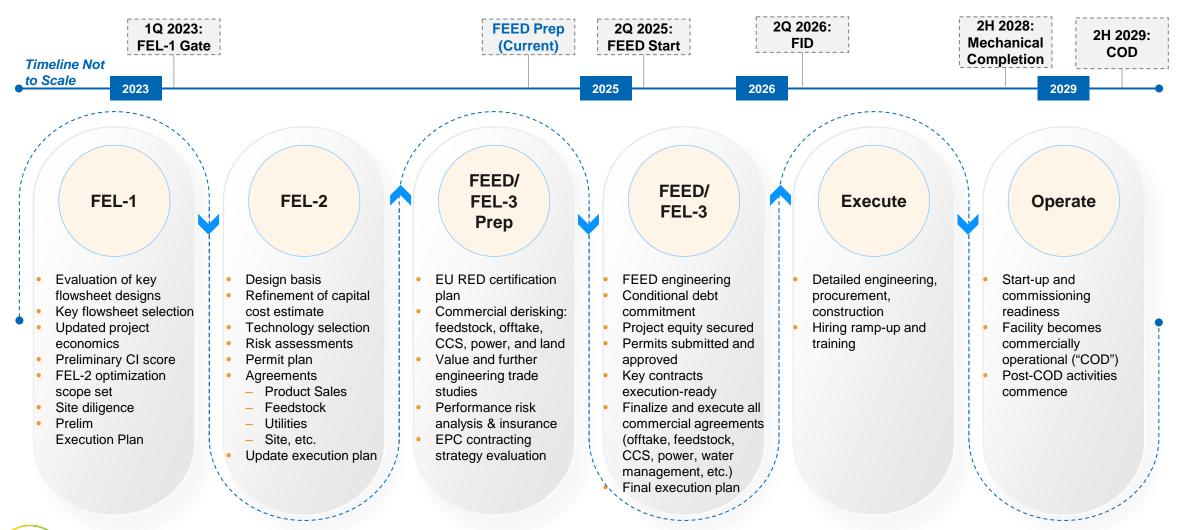


Replicable Plant Design Supports Rapid Follow-on Projects





BLRE Current Development Status and Next Steps





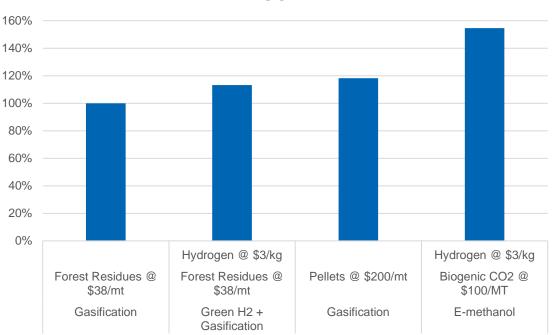
Levelized Cost of Methanol (LCOM)

- Gasification of forest residues has the lowest LCOM driven by a combination of inexpensive feedstock, tax credits, and CDR revenue
- A combination of green H₂ import and gasification is the second-best option but requires access to both inexpensive green hydrogen and biomass
- Gasification of pellets broadens the feedstock envelope resulting in a LCOM that is about 20% higher than the gasification of forest residues.
- Stand-alone e-methanol project has the highest cost of methanol, largely a function of H₂ and biogenic CO₂ price

Capital cost, feedstock/power cost, and credits are the largest determining factors of green methanol price



Levelized Cost of Bio-Methanol



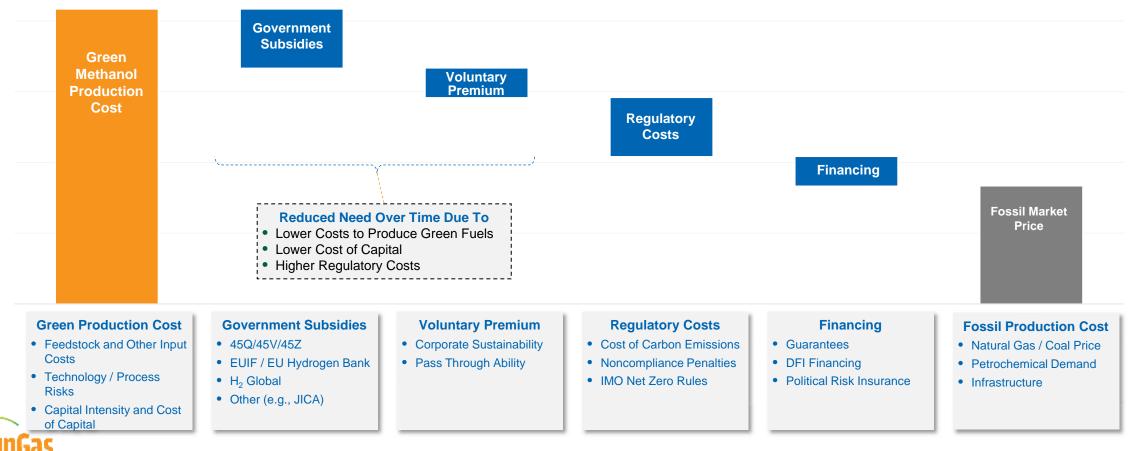
LCOM

Making Green Methanol Competitive by Closing the Price Gap

Multiple Variables are Positioned to Drive Cost Parity Between Green and Fossil Based Methanol

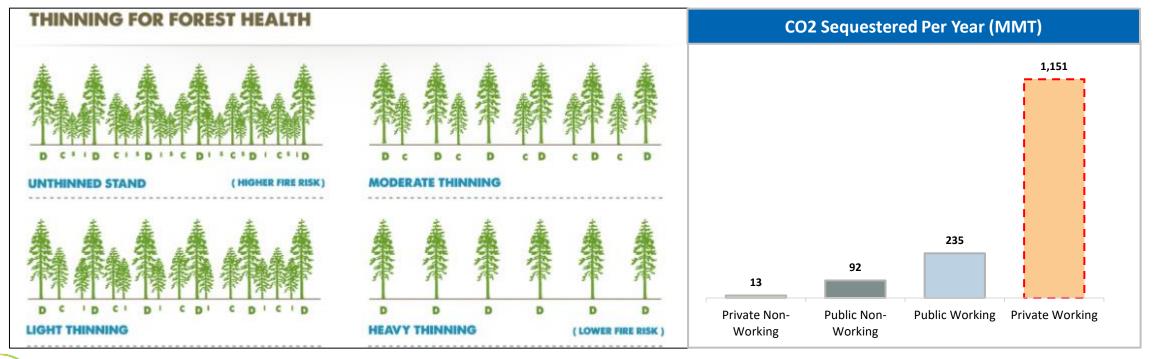
RENEWABLES

Visible Path to Cost Parity With Fossil-Based Methanol Prices



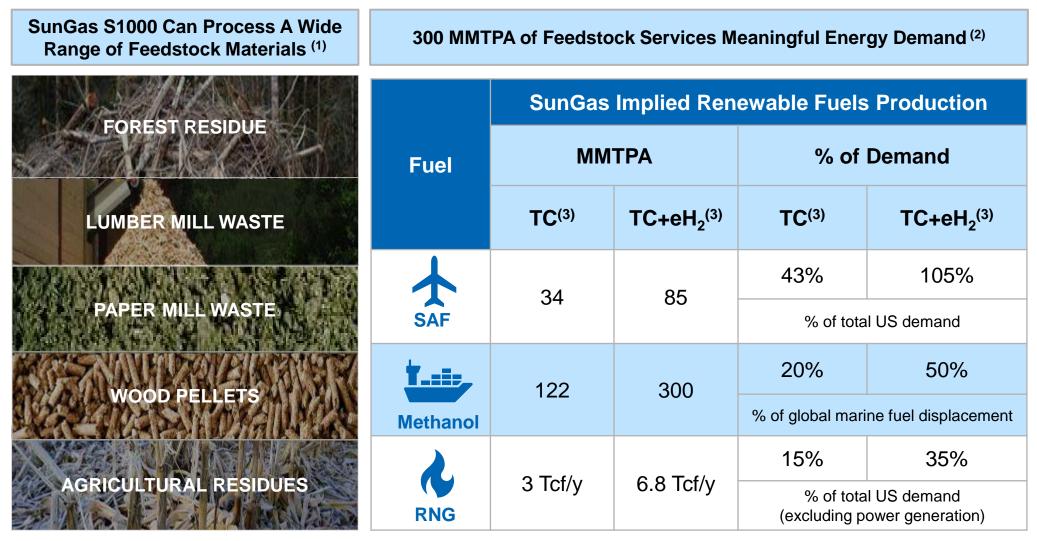
The Importance of Thinning Forests

- **Thinning forests** to remove unhealthy and smaller trees encourages growth of the remaining trees, which become high-value timber for home construction and furniture production
- Unmanaged forests emit carbon at the fastest rate with 71% of annual growth, dying and releasing carbon in the form of methane and CO2
- Working forests in the US sequester more than 1Billion tonnes of CO2/yr, more than all other forest types combined





Abundant Feedstock Drives Large Serviceable Market





- 1) SunGas certifies the S1000 for many feedstocks today. Certain feedstocks may require further testing and qualification.
- 2) SunGas calculations based on: U.S. Department of Energy 2023 Billion-Ton Report: Executive Summary, Table ES-2. Only forest residues and agricultural residues considered. https://www.energy.gov/eere/bioenergy/2023-billion-ton-report-assessment-us-renewable-carbon-resources
- 3) TC is thermal conversion pathway only. TC+eH2 is thermal conversion plus electrolytic hydrogen pathway to maximize biogenic carbon utilization of biomass.

Key Take Aways

SunGas' S1000 standardized product is ready now to provide meaningful scale and proven performance for biofuels production

BEAVER LAKE RENEWABLE ENERGY

Beaver Lake Renewable Energy is plowing the ground for a large pipeline of advanced clean fuel projects

Utilization of sustainably managed forest thinnings coupled with CCS can remove vast amounts of CO2 from the atmosphere



Thermal conversion of abundant volumes of low-cost biomass to fuels can provide a meaningful wedge of advanced clean fuels and a path to near cost parity with fossil fuels in the next decade







Building the Advanced Clean Fuels Future Today!

Clifton Keeler, Vice President of Business Development ckeeler@SunGasRenewables.com

