

Clean Energy Technology Association, Inc.

Investor Overview

\$60 Million Capital Raise

BUTLER SNOW

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Abhay Patel

Managing Director

abhay.patel@butlersnow.com

504-258-2692

Blair Badham Managing Director blair.badham@butlersnow.com 205-297-2213 Lauren Lomax
Advisor
lauren.lomax@butlersnow.com
601-942-0000

Sharon Foreman CETA Finance sforeman@cetaenergy.com 985-264-1231 Pam Abide CETA Finance pabide@cetaenergy.com 985-630-0965

Butler Snow Advisory Services, LLC

www.butlersnowadvisory.com



- I. Company Overview
- II. Product Overview
- **III.** Current Operational and Financial Footprint
- IV. Detailed Financial Overview and Forecast
- V. Organizational Infrastructure
- VI. Transaction Overview



Company Overview







Executive Summary



Introduction

- Founded in 2008 and headquartered in Fairfield, TX, Clean Energy Technology Association ("CETA" or the "Company") is an innovative, fast-growing and highly disruptive coal distillation company providing a wide range of energy efficient solutions to public and private customers across the United States and globally
- ✓ First company to successfully transform coal into highly marketable by-products in a costeffective and environmentally-friendly manner
- Major relationships include the Department of Energy, several states (such as WV, OH, MT and PA), and businesses, including leading international oil, gas, chemical and refinery companies
- ✓ Strategically located facilities and properties to ensure ready access to coal supply, efficient transportation / logistics and scalability

Patented technology developed and perfected over a multi-year R&D process

- ✓ Tens of millions invested in research and development
- √ 3 patents
- ✓ Tested and proven by the nation's leading scientific laboratories

The Company's products offer a superior value proposition to its customers

- Highly formulated coal blends yield cleaner coal (COALliteTM), valuable fluids (CETASolveTM), heavy sweet oil and synthetic gases (SynGas) that drive industry differentiation
- ✓ Diversified product portfolio capable of meeting industry requirements
- ✓ Commercial applications include feedstock for energy production and manufacturing of cosmetics, pharmaceuticals, agricultural products, among others
- ✓ Strict quality control standards supported by major investments in personnel, laboratory and
 other infrastructure

CETA is led by a highly experienced and proven management team

 Extensive operating experience in the oil, gas, chemical, refining and construction industries with over 250 years of combined experience

6

✓ Commitment and ambition to continue to grow and expand the business on a global scale

Distilled Products (1 Ton of Raw Coal)



Summary Financials



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The Innovation

The Foundation

The Future

2008-2012

2012-2017

2018-Beyond

CETA formed to pursue and discover revolutionary emissions reducing coal distillation technologies

CETA team conducted extensive research and analysis of prior, failed technologies

Findings used to develop initial equipment prototypes

Produced first commercial-scale coal distillation unit

CETA process, technologies and output tested and vetted by leading national science laboratories

CETA has developed strategic relationships with major players in the oil, gas, coal, refining and chemical sectors that will allow for the purchase of CETA's liquids and gases. There are available long-term contracts for this purpose

Acquired additional coal reserves for the company

CETA's product streams have been confirmed by the major test laboratories in the U.S. (Avomeen Analytical Services, Energy and Environmental Research Center, Energy Laboratories, Exxon Mobil Research and Engineering, Heritage Research Group, National Energy Technology Laboratory, Precision Analysis, Standard Laboratories, Inc, and Texas Oil Tech Laboratories)

CETA develops relationships with Federal and State Governments to begin private testing for the highest and best uses of coals from the U.S. and determine the full range of by-products that can be derived from the coal

President Roy W. Hill placed on the Board of Directors of the National Coal Council by Secretary Perry

Awarded 3 patents by the U.S. Patent Office

Continued programs with the Federal and State Government and private sector to develop the highest, cleanest and best uses for all U.S. Coals

Began developing programs to create steel quality coked coal from lower ranks of coal and discussions began about exports of coal to other countries with the U.S. Federal Government and several U.S. Government agencies and began extensive build out of CETA commercial units

Developed a way to absorb ${\rm CO_2}$ from any gas stream using **CETA** $Solve^{\rm TM}$ product and developed uses for product (with ${\rm CO_2}$ absorbed in it) for the oil and gas sector

Began construction of mobile CO_2 units for use to capture CO_2 at any location. Continued development of higher quality cleaner coal from lower ranks of coal and international export project. Continuing extensive build out program for commercial units

Key Investment Highlights



Revolutionary Coal Distillation Technology

Proprietary Technology and System Transforms Coal in a Low Cost, Profitable and Environmentally Friendly Way

Highly Marketable By-Products that Serve Diverse End Markets and Industry Needs

Technology Validated by Leading Scientists and Strategic Partnerships

Significant Downside Protection Secured Through Available Option Contract with Major Oil Company

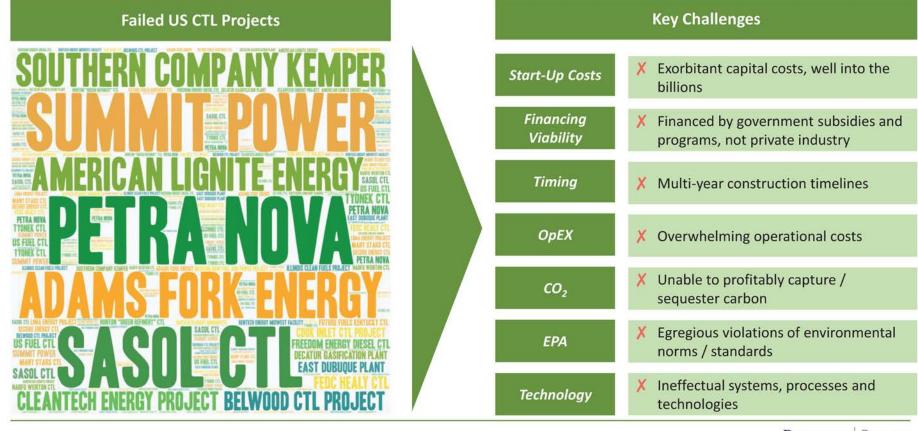
Strong Growth and Margin Profile

Impressive Payback and Free Cash Flow Generation

World-Class Management Team

The World has Been Spectacularly Unsuccessful in its Attempt to Distill Coal in a Cost-Effective, Environmentally Friendly Manner...





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"[We have] no intentions of making any more investments in new coal-to-liquids plants. The carbon footprint is too big, the capital investment is just extremely large, and there are better options for us in terms of return on investment."

—Sasol Executive, 2017



"Utility giant Southern Company abandoned work on its troubled Mississippi 'clean coal' facility amid skyrocketing costs."

-Forbes, 2017

...Until Now: CETA's Revolutionary Coal Distillation Technology, Process and System Achieves the Trifecta of Clean Energy Solutions...



- ✓ CETA's unparalleled coal distillation technology uniquely positions the Company to bring environmentally sustainable and commercially viable solutions to the world
- ✓ The Company's unmatched approach uses a low pressure, moderate temperature distillation process to extract chemicals, gases and oils from the coal that will provide valuable feedstock to the oil, chemical, coal and pharmaceutical industries
- ✓ Cutting-edge applications, like CO₂ capture and use, can be used to boost domestic oil and gas production through enhanced oil recovery techniques
- ✓ In short, the Company's clean energy technology is set to redefine the global energy landscape and lead the fossil fuel industry for the 21st Century and beyond





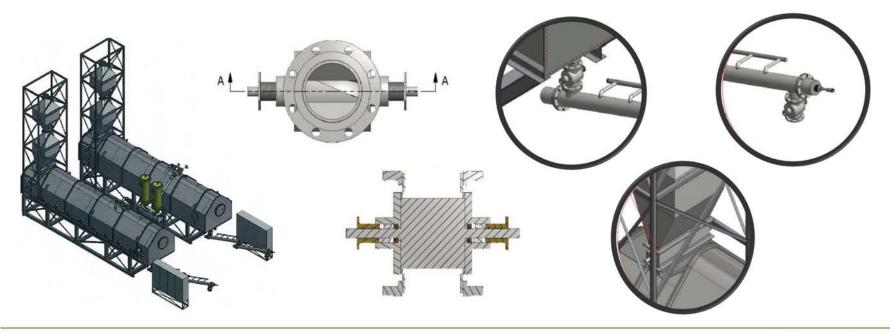
- ✓ Over the past decade, the CETA team has relentlessly focused on developing a technology that can unlock coal's full resource value
- ✓ During the rigorous R&D process, CETA tested many critical variables, including temperatures, residence time and varying coal blends to optimize results
- ✓ After years of testing, CETA has proven its ability to successfully produce a consistent stream of marketable products (using a wide variety of coals) in an unprecedented and economically potent manner





How CETA Won: Patented Technology and System

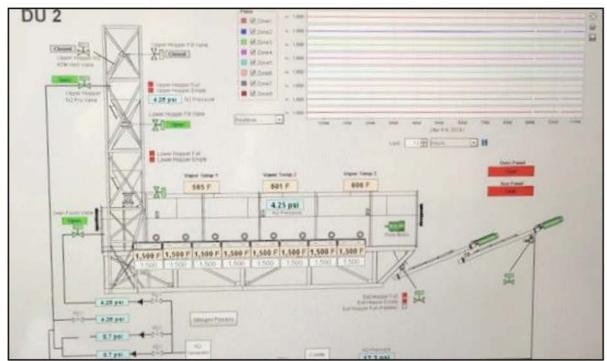
- ✓ Over the past 10 years, the Company has invested tens of millions of dollars in R&D to develop the first-of-its-kind coal distillation technology
- ✓ The Company has been awarded 3 major patents from the U.S. Patent Office, providing comprehensive and wholistic protection for its Carbon-Based Feedstock Processing System





How CETA Won: Patented Technology and System (continued)

✓ The Company has also invested significantly in a proprietary software program that allows continuous security and performance monitoring





Traditional Methods

- Traditional coal coking processes use a batch system to remove volatile matter from raw metallurgical bituminous coal
- This process, used for over a century, heats the coal in a batch oven, then cools it in a quenching bath - venting harmful gases into the atmosphere
- Temperatures typically reach 2,000 degrees Celsius, and each batch takes over 24 hours to process

The CETA Solution

- In contrast, CETA's coal distillation takes place within a continuous, closed loop process
- This allows for the capture of the liquids and gases volatilized from the raw coal greatly reducing gas emissions





✓ The efficiency of the CETA system is best illustrated by the significant improvement in time and costs of the Coking process — leading to an unprecedented economic profile

	Traditional Coking	CETA Distillation	
Type of Process	Batch Processing	Continuous Processing	
Type of System	Closed Heating / Open Cooling	Closed Loop System from Start to Finish	
Plant Emissions	Substantial Emissions of Volatile Organic Compounds Due to Open Cooling	Essentially NO Emissions of Volatile Organic Matter Using Closed Loop System	
Product Capture	Substantial Loss of Gases Due to Open Cooling	Complete Capture and Sale of Liquid and Gas Products	
Residence Time	24 Hours	6-8 Hours	
Total Mining / Coking Costs	\$185-\$225 / ton	\$115 / ton or less	

The Company's Proven Technology has been Tested and Validated by the Nation's Leading Scientific Laboratories...



✓ Extensive research, testing and evaluations by leading independent scientists confirmed CETA's internal findings from over a decade of research

Research and Testing Labs



















Research and Engineering





- ✓ The U.S. Department of Energy's Office of Fossil Energy and National Energy Technology Laboratory announced \$9.5 million in federal funding for cost-shared research and development to maximize the coal value chain
- ✓ The program seeks to develop innovative uses of domestic coal for upgraded coal-based feedstocks —ultimately creating new market opportunities for coal, both domestically and internationally
- ✓ Recently, another \$100 million in available funds was announced by Under Secretary of Energy Mark W. Menezes to help create near zero emissions power plants to help secure the Nation's power supply.
- ★ CETA is working with various agencies of the Federal Government and within the private sector to develop all of the U.S. ranks of coal to be utilized in a cleaner way and create economic value from by-products such as oil, gas, solvents, marketable ash, rare earth, steel making, cleaner power plants and higher quality coal for exports
- * CETA has the verified equipment for all of these programs







Significant Downside Protection Secured Through Available Option Contract

- ✓ CETA has an available, opt-in contract with a major oil company that diminishes risk of loss and serves as a natural financial backstop for the Company - if needed
- ✓ While the Company believes that other revenue pathways could prove more attractive, the contract outlined here is accessible to the Company if these opportunities are unactualized
 - CETA's conservative and fiscally forward-thinking Board of Directors views this opportunity as a "worst case scenario" for potential investors

The Terms of the Contract would be:

Initial Term: 5 years as an initial term

Option to Extend: 3, 3 year options exercisable at CETA's election

Initial Product Purchases Available: CETASolveTM and Rare Heavy Sweet Crude Oil

Purchase Commitment: Up to 5 million Barrels per Year at CETA's election

Pricing: \$162.50 per barrel with certain price escalators

Termination: CETA can Terminate with notice only



Product Overview

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The Company's Patented Process Transforms Coal into Highly Marketable, Valuable and Sought-After By-Products





Representative Applications

- ✓ Secondary Oil Recovery
- ✓ Drilling / Fracking Fluids
- ✓ CO₂ Absorption
- ✓ Prescription Drugs
- ✓ Cosmetics
- √ High-End Fire-Fighting Chemicals
- ✓ Agricultural Products
- ✓ Plastics
- ✓ Resins
- √ Steel Making
- ✓ Power Generation



Product Overview

- Ocleaner, more energy efficient form of coal
- **@**90% less mercury
- **№**90% less volatile matter
- **©**80% more fixed carbon
- Significantly reduced emissions
- Attractive price points and economic margins

Applications

- Activated Carbon used for air and water purification
- Pharmaceutical and Cosmetics
- @Bottom Ash for roads / cements
- Alternative Fuel for power plants / steel mills
 Alternative Fuel for power plants / stee
- Alternative Fuel for industrial boilers and other uses
- Significant international exporting potential



Comparison of Raw Coals to Respective **COAL**liteTM Product

- ✓ CETA's distillation process removes the vast majority of the mercury from the raw lignite coal, greatly enhances the energy density and lowers key sulfur content
- ✓ COALliteTM's increased energy content and reduced weight makes it, when burned, a more efficient fuel than traditional coal
- Notably, the CETA distillation process produces a coal, that when burned, produces a very low fly ash which is content considered a major environmental air pollutant. Instead COALliteTM produces a bottom ash which has significant industrial applications and markets

со	al, greatly enhances the energy tent	Raw Lignite	Lignite COAL/ite™	Raw PRB	PRB COAL/ite TM	Raw Bituminous	Bituminous COAL/ite TM
	Energy Content (Btu/lb)	7,181	9,660	8,232	12,132	13,400	13,217
-	Weight Reduction	7071	55%		55%		55%
	Organic Sulfur (<i>The Good Kind</i>) (lb/mmBtu)	0.58	0.98	0.30	0.40	0.70	1.71
	Pyritic Sulfur (<i>The Bad Kind</i>) (lb/mmBtu)	0.19	0.10	0.05	0.02	0.80	0.08
	Bottom Ash (%wt)	2.07	26.80	1.19	12.68	0.92	8.75
	Fly Ash (%wt)	11.73	4.73	6.74	2.24	5.23	1.54
	Moisture (%wt)	29.50	1.62	37.50	1.67	7.69	0.70
	Volatiles (%wt)	29.20	13.62	32.93	10.59	40.16	9.01
	Fixed Carbon (%wt)	27.52	54.2 0	43.65	71.85	46.00	80.00
	Mercury (ppm)	0.180	0.040	.098	0.012	0.012	0.013

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Product Overview

- ©Contains organic acids (phenolics) and inorganic compounds (ammonia)
- Premium liquid solution for refinement
- Replacement for fresh water

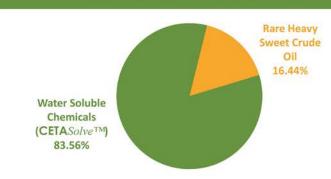
Applications

- Feedstock for plastics, resins, dyes, pharmaceuticals, cosmetics
- ©Enhanced oil recovery
- Separation of bitumen from oil sands
- Base liquid for fracking

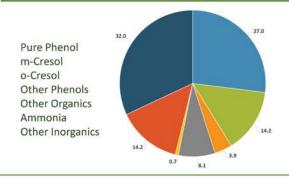
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OCO₂ Capture and Absorption

Liquid By-Product Composition



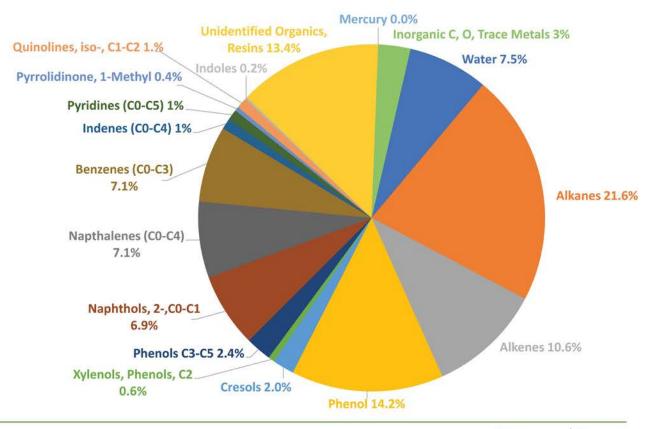
CETASolveTM Chemical Composition



Detailed chemical breakdown and composition percentages are available upon NDA.



- ✓ The oil produced in the CETA distillation process is a refinery grade heavy sweet oil, resembling crude oil found in the Tyler Formation
- ✓ This type of oil (heavy sweet) is very rare in the United States, is in high demand and is utilized primarily for the creation of prescription drugs, cosmetics and high-end fire-fighting chemicals





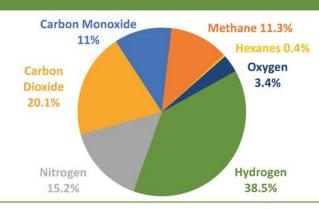
Product Overview

- Oclean, hydrogen-rich synthetic gas
- Distillation of gas averages 325 BTU / cubic foot
- On large volumes, a highly valuable, regularly traded feedstock

Applications

- Pharmaceuticals
- OClean, low BTU alternative fuel
- Agricultural uses, including fertilizer manufacturing
- Occupantics
- **O**Plastics

SynGas Composition



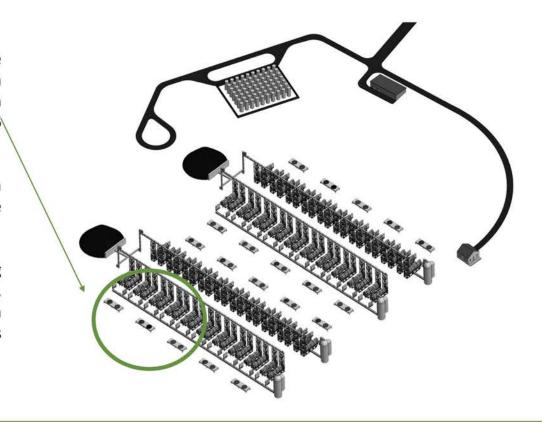


Current Operational and Financial Footprint

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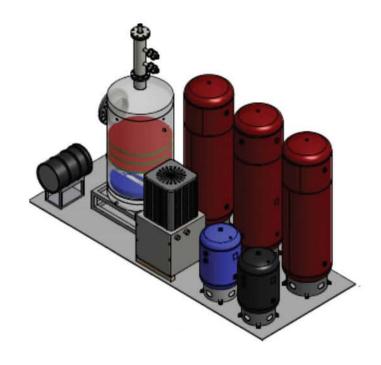
- ✓ To date, CETA has funded the construction of 7 coal distillation units (1 of which has been operational since 2012), with 6 more units constructed in 2018
- ✓ All units will be in production mode by late 3Q 2019 (3 active now)
- ✓ A company-owned gathering pipeline captures the liquids, which are then transferred to a separation unit and stored in tanks ahead of transport to IOC





Overview

- The solvent absorbs CO₂ into a solution, making ammonium bicarbonate as a byproduct
- The resulting solvent, with absorbed CO₂, is marketable for enhanced oil and gas recovery without separating / compressing CO₂ gas when injected into wellbores above 180 degrees Fahrenheit







Description	2016	2017	2018	2019
Coal Distillation Revenue				
Units in Operation	1	1	3	7
Government Projects Allocation of Revenue	\$0	\$0	\$2,035,757	\$2,907,114
Non-Governmental Project Revenue	\$4,106,805	\$2,955,341	\$4,218,713	\$5,330,284
CO ₂ Capture / Recycle Revenue				
Units in Operation Non-Governmental Project Revenue	0 \$0	0 \$0	0 \$0	2 \$1,574,258
Total Revenue	\$4,106,805	\$2,955,341	\$6,254,470	\$9,811,656
Total EBITDA	\$1,314,178	\$945,709	\$2,001,430	\$2,635,976
Total Assets	\$73,108,436	\$88,774,529	\$104,440,622	\$113,305,622
Total Debt	\$494,053	\$599,921	\$705,790	\$510,135
Shareholder's Equity	\$72,614,383	\$88,174,608	\$103,734,833	\$112,795,487



Detailed Financial Overview and Forecast

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Summary Assumptions



- ✓ Construction period can vary, based on unforeseen externalities, like weather
- ✓ CETA either owns or controls in the U.S. sufficient Coal Reserves to support over 1,000 of its Distillation Units for 25 years
- ✓ Liquids business supported by long-term contract with major IOC
- √ \$42.75 does not reflect economic value of CO₂ capture / absorption opportunity

Key Operating Assumptions	
Capital cost per unit	\$1,500,000
Time from unit order to unit production	18 Weeks
Annual Operating Days	330
Coal tons per day per unit	19.0
Coal tons processed per day per unit (screened)	16.0
Price of mining coal (\$/ton)	\$32.50
Electricity use (Mwh/ton)	0.695
Electricity cost (\$/Mwh)	\$55.00
COALlite ™ tons per day per unit	9.0
Price of COALlite ™ (\$/ton)	\$42.50
Liquids bbls/day (2.25 bbl/ton) per unit	42.75
Price of ${f CETA} Solve^{{ m TM}}$ and Rare Heavy Sweet Crude Oil (\$/bbl)	\$162.50
SynGas pounds per day per unit	300.0
Price of SynGas (\$/day)	\$47.14



Single-Unit Economics: Immediate and Strong Free Cash Flow Generation

- ✓ The baseline increase in Year 2 from Year 1 correlates to an increase in annual operating days from 300 to 330
- ✓ CETA's financial profile is highlighted by unparalleled margins, leading to a payback period of less than one year
- ✓ The strong cash flow generation provides ample resources for organic growth, protecting shareholders from continued and sustained dilution

Description	Year 1	Year 2
Sales by Product		
COALlite TM	\$114,750	\$126,225
CETASolve™ / Rare Heavy Sweet Oil	2,084,063	2,292,469
SynGas	268,698	295,568
Total Revenue	\$2,467,511	\$2,714,262
Cost of Goods Sold		
Cost of Mining	\$185,250	\$203,775
Total COGS	\$185,250	\$203,775
Gross Profit	\$2,282,261	\$2,510,487
% Margin	92.5%	92.5%
Operating Expenses		
Total General & Administrative	\$147,052	\$147,052
Natural Gas or Electricity	217,883	239,671
Contract Services & Maintenance	26,136	33,508
Total OpEx	\$391,071	\$420,231
EBITDA	\$1,891,190	\$2,090,256
% Margin	76.6%	77.0%

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- ✓ In addition to its existing coal distillation units, the Company has requested permits to build an additional 80 units typical permitting process takes 30 days
- ✓ While CETA plans a disciplined and methodical growth trajectory, it is well-positioned to accelerate its business by utilizing multiple fabrication partners already identified and prepared to integrate into the Company's operations
- ✓ Although not presented here, CETA's base business will be complimented with other, highly profitable business streams as the Company grows, including CO₂ capture and recycle targeted to begin in 2H 2019

Description	Full Year 1	Full Year 2	Full Year 3	Full Year 4	Full Year 5
(\$ Thousands)					
New Units / Quarter	10	20	30	40	40
Total Units	40	120	240	400	560
Revenue	\$98,700	\$325,711	\$651,423	\$1,085,705	\$1,519,987
% Growth	na	230.0%	100.0%	66.7%	40.0%
EBITDA	\$75,648	\$250,831	\$501,661	\$836,102	\$1,170,543
% Margin	76.6%	77.0%	77.0%	77.0%	77.0%

Note: For illustrative purposes only. Analysis does not include current producing units and assumes full-year production.



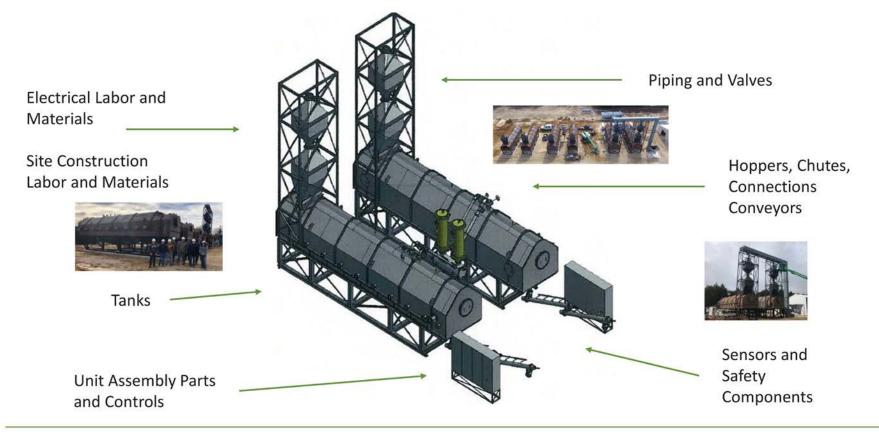


- ✓ The Company has captive access to sizable amounts of land, and corresponding proven coal reserves, that provide a steady resource supply that can support operations for 25 years
 - In Fairfield, TX, alone, the Company's controlled real estate holdings span across 42,000 acres
 - The illustration to the right reflects a small portion of the Fairfield mining footprint
- ✓ Anticipating significant growth well beyond its own coal supply – CETA is in constant and active conversations to secure additional coal reserves



CDU Components Overview







Key Construction Costs and Supplier Detail

✓ The Company maintains strong relationships with a wide range of suppliers and vendor groups, ensuring timely and cost-effective access to materials

	Supplier / Vendor Group
41%	Supplier/Vendor Groups 1, 2, 4, 6
11%	Supplier/Vendor Group 1
11%	Supplier/Vendor Groups 1, 6, 7
11%	Supplier/Vendor Groups 1, 4, 5, 6, 10
9%	Supplier/Vendor Groups 1, 5
6%	Supplier/Vendor Group 2
5%	Supplier/Vendor Group 3
5%	Supplier/Vendor Group 8
1%	Supplier/Vendor Group 9
	11% 11% 11% 9% 6% 5%





- ✓ While CETA generally anticipates a 12week order-production timeline, harsh weather conditions (or other unforeseen circumstances) can impact the Company's overall timeline
- ✓ In aggregate, the Company's fabricating partners are capable of producing several hundred units, ensuring that CETA can meet all of its construction objectives

Key Action Item	Timeline
Order all long lead-time components	1-2
Order all short lead time compomnents	4-5
Component Arrivals	4-12
Start to Finish Civil Infrastructure and Site Prep	1-8
Drill and machine stainless steel plates	3-10
Ship to manufacturer	5-12
Manufacture Units	5-12
Ship to site	7-14
On-site assembly and hook-up	7-14
Start-up Testing	13-18
Timeline	18 Weeks



Organizational Overview







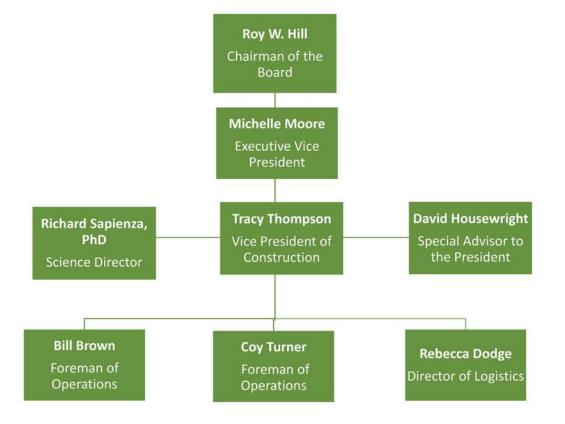
Roy W. Hill Chairman of the Board	 For more than 40 years, has been a key player in the fuels industry as an attorney, corporate adviser, and business owner Specializes in advising and organizing all phases of transactions, leasing, drilling, and mining programs, start-up companies, working with government officials, and actual project construction for major energy/oil companies, his partners, and himself Holds various degrees in business and law
Michelle Moore Executive Vice President	 For more than 30 years, has been with Roy W. Hill and Associates and is, presently, a full partner Has spent her career in law, contracts, finances, assisting in formation of start-up companies, and communications between parties involved in various transactions and programs
Tracy Thompson Vice President of Construction	 Brings more than 15 years of experience in the construction and fabrication industries Has supervised large pipeline projects and is highly experienced in fabrication of everything from power plant components, oil field vessels and piping systems to refinery and mining equipment and material handling Holds degrees in welding technology/metallurgy
Richard Sapienza, PhD Science Director	 Over 30 years of program management experience and more than 35 years of developing new materials and processes Selected accomplishments include discoveries in new coal beneficiation methods and new metal mining processes, along with multiple awards in technical innovation Holds various degrees in Chemistry from SUNY Stony Brook and the University of Texas
Alfred Thomas Vice Chairman of the Board	 Brings more than 50 years of experience in the oil and gas industry to CETA Has worked across the globe as manager and organizer of exploration and drilling projects both large and small Has served as chief operating officer, chief executive officer and president of several companies over the years and holds a degree in petroleum engineering
Robert Buller Director	 For more than 30 years, has been the project strategist for a number of companies in the energy sector Highly skilled at matching projects with the right balance of corporate parties to assure success for both the project and the corporate participants Studied economics and holds various certifications
Charles Moncla Director	 For the past 45 years, has been involved in the Oil & Gas industry both on and offshore For the past 35 years, was directly involved in his own business which employed 935 employees in well servicing, drilling and marine inland barges Has a degree in General Business with a minor in Economics and Math





	Employees YTD 2019
Management	5
Corporate / Operations	25

^{*}Figures fluctuate and include contract employees





Transaction Overview

BUTLER SNOW ADVISORY



- ✓ CETA is seeking an institutional growth partner that is able to scale with the Company
- ✓ The Company is having conversations with both equity and debt providers and is flexible on the initial capital raise

Sources of Funds

New Investment

\$60,000,000

Uses of Funds

Funding of 40 CDUs

\$60,000,000