lecogen:

Energy Efficiency Reimagined

NASDAQ: TGEN

First Quarter 2019 Earnings Review May 14, 2019

Participants



Benjamin Locke Chief Executive Officer

Robert Panora

President & Chief Operating Officer

Bonnie Brown

Chief Accounting Officer

Safe Harbor Statement



This presentation and accompanying documents contain "forward-looking statements" which may describe strategies, goals, outlooks or other nonhistorical matters, or projected revenues, income, returns or other financial measures, that may include words such as "believe," "expect," "anticipate," "intend," "plan," "estimate," "project," "target," "potential," "will," "should," "could," "likely," or "may" and similar expressions intended to identify forward-looking statements. These statements are only predictions and involve known and unknown risks, uncertainties, and other factors that may cause our actual results to differ materially from those expressed or implied by such forward-looking statements. Given these uncertainties, you should not place undue reliance on these forward-looking statements. Forward-looking statements speak only as of the date on which they are made, and we undertake no obligation to update or revise any forward-looking statements.

In addition to those factors described in our Annual Report on Form 10-K and our Quarterly Reports on Form 10-Q under "Risk Factors", among the factors that could cause actual results to differ materially from past and projected future results are the following: fluctuations in demand for our products and services, competing technological developments, issues relating to research and development, the availability of incentives, rebates, and tax benefits relating to our products and services, changes in the regulatory environment relating to our products and services, integration of acquired business operations, and the ability to obtain financing on favorable terms to fund existing operations and anticipated growth.

In addition to GAAP financial measures, this presentation includes certain non-GAAP financial measures, including adjusted EBITDA which excludes certain expenses as described in the presentation. We use Adjusted EBITDA as an internal measure of business operating performance and believe that the presentation of non-GAAP financial measures provides a meaningful perspective of the underlying operating performance of our current business and enables investors to better understand and evaluate our historical and prospective operating performance by eliminating items that vary from period to period without correlation to our core operating performance and highlights trends in our business that may not otherwise be apparent when relying solely on GAAP financial measures.

Earnings Call Agenda

Benjamin Locke

- Tecogen Overview
 Q1 '19 Financial Overview
- Strategic Achievements

Bonnie Brown

Financial Review

Robert Panora

Ultera Emissions Update

Benjamin Locke

Closing comments

Q&A



Advanced Modular Cogeneration Systems

Heat, Power, and/or Cooling that is:

- Cheaper Industry leading efficiency and reduced exposure to expensive electricity
- Cleaner

Proprietary near-zero emissions technology, GHG reductions

Seal-time monitoring, blackout protection, and improved grid resiliency

All of Tecogen's equipment is powered by efficient natural gas equipped with Tecogen's patented Ultera Emission Control

Q1 2019 Financial Results

- Working capital of \$16.2 million compared to \$13 million at year end 2018
- 1Q'19 revenues of \$8.2 million
- Net loss of \$3.3 million includes goodwill impairment loss of \$3.7 million
- Gain on sale of assets \$1.1 million
- Adjusted EBITDA*of \$678K for 1Q'19 compared to \$304K for 1Q'18
- 1Q'19 Gross margin of 36% compared to 38% in 1Q'18





^{*} Adjusted EBITDA is defined as net income (loss) attributable to Tecogen Inc, adjusted for interest, depreciation and amortization, stock based compensation expense, goodwill impairment and one-time merger related expenses.

Q1 2019 Adjusted EBITDA of \$678K

\$ in thousands	-	1Q'19	1	Q'18	Yo	Y Change	% Chg
Revenue							
Products	\$	3,025	\$	3,674	\$	(649)	
Service		3,911		4,719		(808)	
Energy Production		1,241		1,783		(542)	
Total Revenue		8,177		10,175		(1,999)	-20%
Gross Profit							
Products	\$	1,081	\$	1,264	\$	(183)	
Service		1,437		1,937		(500)	
Energy Production		441		637		(196)	
Total Gross Profit		2,959		3,838		(879)	-23%
Gross Margin: %							
Products		36%		34%		1%	
Service		37%		41%		-4%	
Energy Production		36%		36%		0%	
Total Gross Margin		36%		38%		-2%	
Operating Expenses							
General & administrative	\$	2,655	\$	2,790	\$	(134)	-5%
Selling		693		675		18	3%
Research and development		345		302		43	14%
Sub-total		3,694		3,767		-73	-2%
Gain on sale of assets		(1,081)		-		(1,081)	
Goodwill impairment		3,693		-		3,693	
Net income without goodwill impairment	\$	413	\$	21	\$	392	1890.1%
Adjusted EBITDA	\$	678	\$	304	\$	374	123.3%

- Consistently Strong Gross Margins
- Coodwill Impairment Loss, Q1 2019
- Investing in R&D and Sales Activities

Product and Installation Backlog





Current Backlog of \$ 26.9 million Product backlog: \$13.0 mm, Install backlog \$13.9 mm

Strategic Achievements

Adjusted product mix to emphasize chiller sales

Less competition, Well defined channels to market Established ADG sites as solid investment assets Forklift Emissions program with Cat/Mitsubishi

Enabled selective sale to strengthen balance sheet Potential for fleet forklift conversion to Ultera emissions Zero debt with cash available for business growth

Financial Stability

Tecogen:

Tecogen positioned for growth in core business while building value of Ultera emissions technology

Q1 2019 Financial Metrics: Revenues, Margins and Profitability

Revenue of \$8.2 million

- Maintained profitability of \$413K for the quarter after the elimination of goodwill impairment
- Gain on sale of energy production assets of \$1.1 million
- Gross margin of 36% within management's guidance
- Decrease in G&A expense while increasing sales and R&D investment
- Strong backlog of \$26 million

	Quarter Ended March 31,					
\$ in thousands	2019		2018		YoY Growth	% of Total Rev
Revenue						
Cogeneration	\$	1,819	\$	1,764	3%	22%
Chiller		1,205		1,909	-37%	15%
Total Product Revenue		3,025		3,674	-18%	37%
Service Contracts and Parts		2,355		2,314	2%	29%
Installation Services		1,556		2,406	-35%	19%
Total Service Revenue		3,911		4,719	-17%	48%
Energy Production		1,241		1,783	-30%	15%
Total Revenue	\$	8,177	\$	10,175	-20%	100%
Cost of Sales						
Products	\$	1,943	\$	2,409	-19%	
Services		2,475		2,783	-11%	
Energy Production		800		1,146	-30%	
Total Cost of Sales	\$	5,218	\$	6,338	-18%	
Gross Profit	\$	2,959	\$	3,838	-23%	36%
Net income (loss) attributable to Tecogen Inc.	\$	(3,280)	\$	21		
Net income attributable to Tecogen w/o GW impairment	\$	413	\$	21		
Gross Margin					-	
Products	36%		34%			
Services	37%		41%			
Aggregate Products and Services	36%		38%			
Energy Production	36%		36%			
Overall	36%		38%			

Adjusted EBITDA* Reconciliation

Q1 2019 and 2018 Comparative Net income (loss) to Adjusted EBITDA Reconciliation

- EBITDA: Interest, taxes, depreciation & amortization
- Non-cash adjustments
 - Stock based compensation
 - Unrealized loss on investment securities
 - Goodwill impairment
- Non-recurring expenses
 - Merger related expenses finalized in 2018

Consistently reaching positive levels of adjusted EBITDA*

Non-GAAP financial disclosure	Q1 2019	Q1 2018
Net Income (loss) attributable to Tecogen Inc.	\$ (3,280,077)	\$ 20,759
Interest expense, net	27,494	14,085
Depreciation & amortization, net	168,244	199,181
Income tax expense	(8,169)	-
EBITDA	(3,092,508)	234,025
Stock based compensation	38,035	40,416
Unrealized loss on investment securities	39,361	19,681
Merger related expenses	-	9,610
Goodwill impairment	3,693,198	-
Adjusted EBITDA*	\$ 678,086	\$ 303,732

*Adjusted EBITDA is defined as net income (loss) attributable to Tecogen Inc, adjusted for interest, depreciation and amortization, stock based compensation expense, goodwill impairment and merger related expenses.

Emissions Technology Update – MCFA Forklift

- Received second sample set of alternative engine retuning software from MCFA
- Extensive forklift drive testing completed
 - NOx emissions 20% of factory system
 - CO emissions 12% of factory system
- Results consistent with program goal of near-zero certification
- Reviewed results with MCFA last week
- Our recommendation (awaiting MCFA response)
 - Seek certification of bare engine with Ultera to "near zero" California standard
 - Return truck to MCFA for their further evaluation



Test Summary of MCFA Forklift Truck Testing

	NOx [g/kw-hr]	CO [g/kw-hr]			
MCFA - Drive Test w/Factory Emissions System	1.67	0.49			
MCFA - Drive Test w/Ultera	0.34	0.06			
Relative Emissions Output (Ultera/Factory System)	20%	12%			
		12			

Emissions Technology Update (2)

Southern California generator retrofit program (project footnote)

- Only natural gas engines permitted to current (2010) regs without operating exemption
- Application is noteworthy in light of recent developments in California
 - Distributed loads in terrain of high fire risk requires frequent de-energization of power lines in high winds
 - Ultera retrofit to standard gen-set effective solution to mitigate risk without negative environmental impact

Ultera Automotive Catalyst Development

- On road Ultera development work with outside research institute progressing
- Focus is alternative catalyst formulation
- Program is on schedule to conclude in Q2

Ultera Project approved by SoCal District Pump Project

- Project approved for new natural gas driven pump procurement
- 800 horsepower engines, requires 2x scaleup of system
- Formal sole-source bid documents submitted



Tecogen:

Natural Gas Generator Upfitted with Ultera in Southern California (LA County)

Market Outlook

Indoor Agriculture Growth Opportunity

- Proven cost/benefit of Tecochill
- NY/NJ recreational cannabis approval expands opportunity

Expand/Upgrade chiller product portfolio

- Tecochill: Water-cooled AC systems
- Tecofrost: Ammonia refrigeration systems
- Roof-Top (RT) system: Legacy air-cooled 50 ton AC system
- **Third Party Project Finance Partnerships**
 - Low cost of capital, able to use tax advantages
 - Provides customers with multiple project finance options
 - Provides capital for large projects (Manhattan data center)
 - Additional projects in development

Increasing focus on microgrids for resiliency

- Smart Inverter Certification requirements
- Smart Inverter" requirements expanding to other states

"Chiller Market Report, published by Allied Market Research, forecasts that the global market was valued at \$8,784 million in 2015 and is expected to reach \$11,542 million at 4.1% CAGR by 2022.

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Closing Comments

Tecogen Key Value Proposition Remains:

- Use plentiful and affordable natural gas efficiently and cleanly to meet energy needs of large facilities
- Tecogen cogeneration systems have necessary certifications and functionality to participate in new, revenue generating utility support programs
- Tecogen is only manufacturer of natural gas engine chillers, with significant new market potential for indoor growing and ammonia refrigeration systems
- Ultera emissions technology successfully implemented on many engine platforms and has potential for significant upside.





Q&A





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