

NASDAQ: TGEN



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Safe Harbor Statement

This presentation includes forward-looking statements within the meaning of Section 27-A of the Securities Act of 1933, and Section 21-E of the Securities Exchange Act of 1934. Such statements include declarations regarding the intent, belief, or current expectations of the Company and its management. Prospective investors are cautioned that any such forward looking statements are not guarantees of future performance, and involve a number of risks and uncertainties that can materially and adversely affect actual results as identified from time to time in the Company's SEC filings. Forward looking statements provided herein as of a specified date are not hereby reaffirmed or updated.



Why Tecogen?

Heat, Power & Cooling that is Cheaper, Cleaner, & More Reliable

"Unregulated Utility"_

CHP Modules





Emissions Control

Ultera



Electricity & Heat



2-3x Heat Efficiency



Cooling & Heat



Ultra-Clean Emissions

Tecogen's compelling ROI proposition meets the needs of a diverse range of customers.

Hospitality

Health Care

Education

Multi-Unit Residential

Industrial

Municipal

Recreation

















2016 Progress

Products

- Launched InVerde e+ reinforcing competitive advantage in key markets
- GE Equipment Insight real-time monitoring and cloud-based data analytics deployment

<u>Sales</u>

- Repeat orders won from key ESCOs, developers and property managers demonstrating traction in customer relationship development initiatives
- Gas Company selling agreement
- Expansion of Tecochill to indoor agriculture industry opens up new potential market

TTcogen JV

- Combined product portfolio quadruples addressable market for cogeneration products
- Brings renewable biofuel capability

ULTRATEK

- Phase 1 tests prove Ultera highly effective for automotive emissions reduction
- \$6.2M in cash on hand ensures flexibility to pursue any potential opportunity
- Phase 2 testing begins later this month



Tecochill chillers keep Mexican factories cool, despite often unreliable grid power.



2Q 2016 Results:

REVENUE

- Total Revenues \$5.7M in 2Q16 vs. \$6.4M in 2Q15 & \$5.1M in 1Q16
- Products \$2.4M in 2016 vs. \$3.3M in 2015 & \$2.3M in 1016
 - Chiller & Heat Pump sales growth offset by challenged Cogeneration sales
 - Incentive programs recently began taking new applications
- Service \$3.3M in 2016 vs. \$3.0M in 2015 &\$2.8M in 1016
 - Improved due to up-tick in Installation activity

GROSS PROFIT & MARGIN

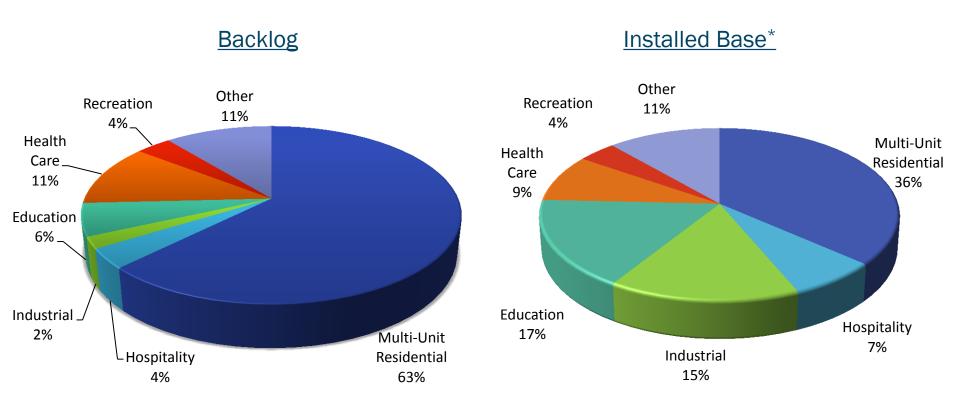
- \$2.10M in 2Q16 gross profit vs. \$2.14M in 2Q15 & \$1.7M in 1Q16
- 37.0% gross margin in 2Q16 vs. 33.5% in 2Q15 & 33.9% in 1Q16
- Service margin improvement from increased Installation activity
- Product margin impacted by write down of inventory and supply agreements for legacy first generation InVerde

BACKLOG

- \$15.9M in current backlog as of Aug. 5, 2016
- \$14.1M 2Q16 end backlog vs \$9.3M prior year backlog
- Backlog growth from strong orders for InVerde e+ and continued demand for Installation services



Sales & Backlog



\$14.1M 2Q16 backlog up 50% Y/Y vs. \$9.3M 2Q15 backlog 2Q16 up 21% Q/Q vs. \$11.5M 1Q16 backlog \$15.9M Current Product and Installation Backlog

^{*}Approximate recently installed base by end market as of YE 2015. 2Q 2016 Earnings Call



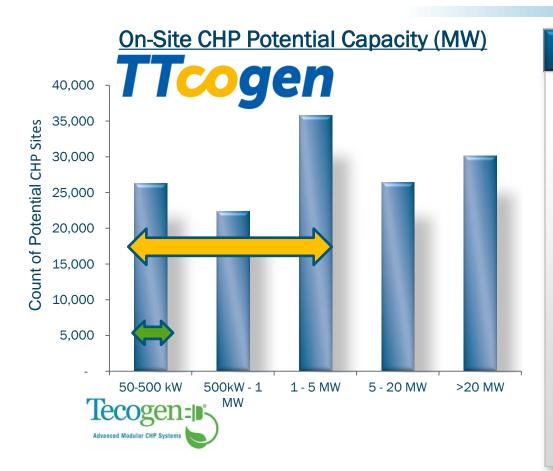
TTcogen JV: INFINITE POTENTIAL







TTcogen:Infinite Potential



U.S. Market Projection

- DOE CHP U.S. market potential capacity for on-site Industrial and Commercial CHP addressable market ~85 GW.
- TTcogen portfolio offers CHP solutions that meet ~60% of total CHP market potential vs. just ~20% of CHP market served by Tecogen.
- Assuming 2020 U.S. target CHP deployment of 40 GW is met – TTcogen addressable market is ~20-25 GW over the next 4 years.
- Conservative 10% market share target equates to ~\$12B sales potential.

Taken from U.S. DOE CHP Deployment Program, 2016: "Total U.S. CHP Technical Potential Across All Facility Types" March 2016. Totals represent estimated potential capacity for both on-site industrial and commercial CHP installations in the U.S.



TEDOM Portfolio: from TTcogen

Micro

- Compact 35kW CHP unit
- The most efficient small CHP unit on the market in the U.S.
- Plug & Play installation
- Flexible fuel options inc. nat. gas, propane, & biofuel
- Silent operation



Cento

- Packaged CHP ranging in size from 125 – 330kW
- Powered by TEDOM custom proprietary engine for superior efficiency
- Flexible fuel options
- Serves needs of mid-size customers

Quanto

- Meets the requirements of large facilities with high energy demand in the 1-4 MW range
- Completely customizable design to meet exacting customer specifications
- Flexible fuel options
- Various packaging configurations







Technology Update: GE Equipment Insight





Technology Update: InVerde e+

Unique Cutting-Edge Features

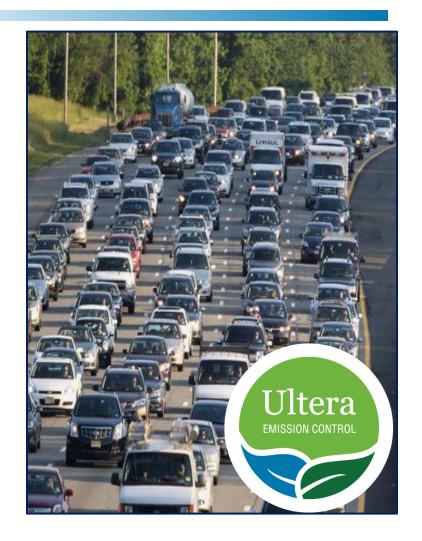
- Superior efficiency
- Quieter operation
- Microgrid enabled for advanced demand response
- DC input capability for renewable and/or battery integration





ULTRATEK: YTD Emissions Progress

- Additional emissions-related patent awarded with several other filings still pending
- Constructed preliminary test module
- Phase 1 testing at AVL California
 Technology center completed in April
- Phase 1 results on base-line vehicle platform indicate Ultera highly effective at reduction of CO and NMOG beyond currently available technologies
- Phase 2 testing slated to begin in late August





ULTRATEK: Results

- ✓ <u>Ultera chemistry confirmed as effective</u> on gasoline automotive engines
- ✓ Phase 1 focus on federally prescribed standard drive cycle tests
- ✓ 2016 light duty vehicle was compliant with current federal regulations on the standard test cycle
- Ultera proved especially effective during aggressive driving conditions
- ✓ Regulatory testing under real-world driving conditions would benefit Ultera technology

US06 Drive Cycle Test Results

	Emissions (mg/mile)					
	СО	NMOG	NOx	NOx + NMOG		
Standard Vehicle	332	5.234	5.763	10.997		
With Ultera	20	1.001	5.072	6.074		
% Reduction	<u>94%</u>	<u>81%</u>	<u>12%</u>	<u>45%</u>		
ULEV Regulation	8000			140		
2025 Regulation	1000			30		





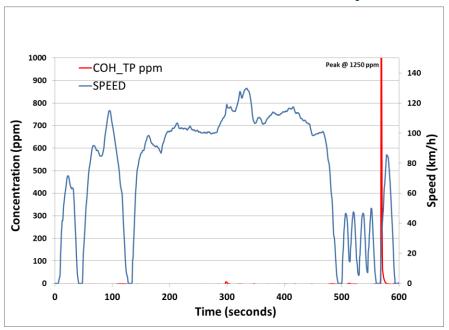
ULTRATEK: Results

Ultera Reduction of CO Concentration - USO6 Cycle

Standard Vehicle Emission System

-COH_03 ppm Peak @ 2000 ppr -SPEED Concentration (ppm) Time (seconds)

With the addition of the Ultera System



Graphs present the reduction of measured CO concentration where CO concentration (ppm) is represented by the red line and the speed (in kilometer per hour) is represented by the blue line and depicts patterns of acceleration/deceleration.

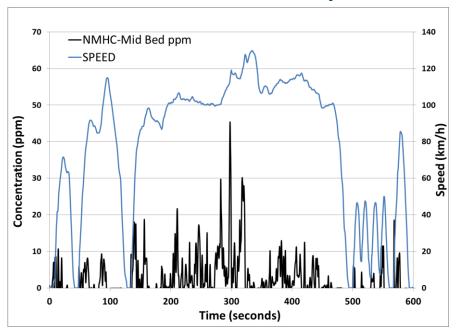
CO is nearly eliminated by the Ultera system.



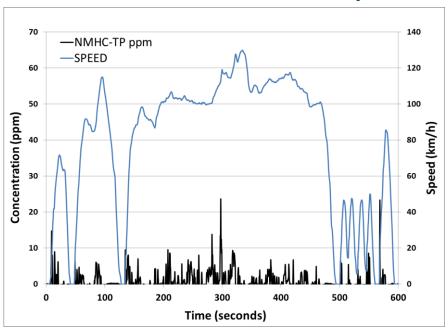
ULTRATEK: Results

Ultera Reduction of NMHC Concentration – USO6 Cycle

Standard Vehicle Emission System



With the addition of the Ultera System



Graphs present the reduction of NMHC (non-Methane Hydrocarbons) throughout the drive cycle where NMHC concentration (ppm) is represented by the black line and the speed (in kilometer per hour) is represented by the blue line and depicts patterns of acceleration/deceleration.



ULTRATEK: Phase 2 Testing

- AVL Testing to resume this month
 - Six weeks planned
- Upgraded system
 - Quicker response
 - More accurate sizing
 - Improved chemistry for gasoline application
- Two vehicles procured for evaluation
 - Strategic selection process







Financial Metrics

Revenues, Margins, Growth

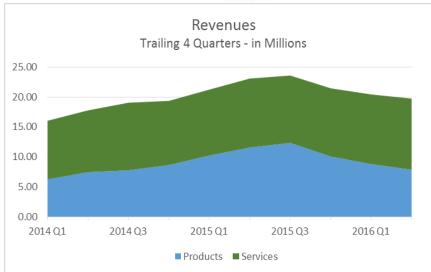
Tecogen Revenue Model & Outlook

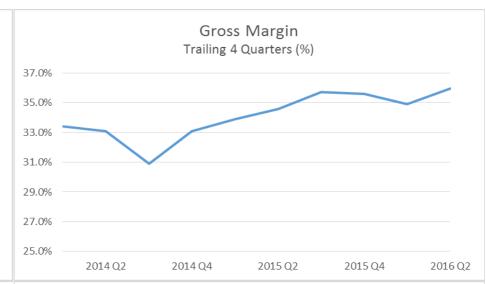
- Three revenue streams
 - Product sales
 - Long-term service contracts
 provide stable ongoing revenue
 - Turnkey Installation through Tecogen service operations
- Targeting stable book-to-bill ratio of 1-1.5x
- Deliver ongoing expense improvement from lean manufacturing initiatives
- Targeting Gross Margins 35-40%
- Quarterly Backlog >\$10M
- Full Year Op Ex ~\$10M

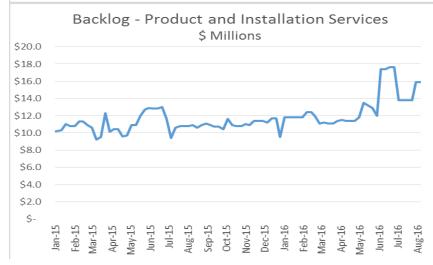
REVENUE	For the Qu June 30, 2016	June 30, 2015	Y/Y Growth	% of Total Revenue
Cogeneration	1,270,499	2,526,812		22.3%
Chiller & Heat Pump	1,138,361			20.0%
Total Product Revenue			-28%	42.4%
Service & Parts	2,082,644	2,035,041		36.6%
Installation Services	1,195,804	1,003,219		21.0%
Total Service Revenue	3,278,448	3,038,260	8%	57.6%
Total Revenue	\$ 5,687,308	\$ 6,383,831	-11%	
COST OF SALES				
Products	1,767,052	2,224,415	-21%	
Services	1,817,362	2,018,526	-10%	
Total Cost of Sales	\$ 3,584,414	\$ 4,242,941	-16%	
Gross Profit	\$ 2,102,894	\$ 2,140,890	-2%	
GROSS MARGIN				
Product Gross Margin	26.6%	33.5%	-20%	
Service Gross Margin	44.6%	33.6%	33%	
Gross Margin	37.0%	33.5%	10%	



Consistent Financial Progress











Opportunities & Outlook

a growing company in a growing industry

- High ROI product
- Technological innovation
- Relationships with key partners
- Increasing environmental and regulatory pressures
- Resiliency and Demand Response concerns

Sales



- Turnkey installation
- Long term service agreements
- Nationwide presence
- High margin revenue stream
- Additional growth anticipated

Service



- Double digit CAGR
- >\$40B market potential for CHP
- Margins 35-40%
- >\$10M product and installation backlog
- <50% manufacturing capacity utilization
- Stable operating expense profile

Growth & Margins











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