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Reliable power when and where you need it.
Clean and simple.
Agenda

• Company Overview
• Technology Overview
• Product Overview
• Value Proposition
• Projects
COMPANY OVERVIEW
Capstone Turbine Corporation

- Founded 1988 – Commercial launch in 1998
- World Leader in microturbines
- Holds over 120 US and European patents
- Headquarters and manufacturing plants in California
- Sales and/or service centers in:
  - China, Singapore, Mexico, Columbia, Argentina, the United Kingdom, Spain, and the United States
- Over 90 Distribution Partners
- Over 7,000+ units shipped worldwide
Global Market Segments

Energy Efficiency
- Large Retailers
- Hotels
- Office Buildings

Renewable Energy
- Wastewater Plants
- Farm Digesters
- Landfills

Oil, Gas & Other Natural Resources
- Oil & Gas
- Land Rigs
- Gas Compression
- Mining
- Water Conversion

Critical Power Supply
- Data Centers
- Telecom

Transportation Products
- HEV
- Marine
What is a Microturbine

Power generator driven by a combustion turbine
What is a Capstone Microturbine?

- ENGINE EXHAUST
- PACKAGE COOLING AIR
- MICROTURBINE SYSTEM
- TURBOGENERATOR ASSEMBLY
- POWER TO LOAD
- FUEL
- COMBUSTION AIR
- FUEL SYSTEM
- BATTERY SYSTEM
- POWER ELECTRONICS
- CONTROL SYSTEM
- LOCAL USER INTERFACE
- EXTERNAL COMMUNICATIONS

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Only One Moving Part

C200 (61K RPM)  C65 (96K RPM)  C30 (96K RPM)

No Oil – No Coolants – No Friction
Capstone Air Bearings

- Benefits:
  - Reduced Maintenance
  - No Oil Consumption or Disposal
  - Clean Exhaust Emissions
Power Electronics

- Inverter-based Technology
- Superior transient handling and turndown
- Variable Voltage 400-480 Volts
- Variable Frequency 50-60 Hz
- Voltage & Current Source Inverter
- Built-in Fault Protection
- UPS Quality Output
PRODUCT OVERVIEW
Product Suite

Low-emission, clean-and-green Capstone products are scalable from 30kW to 10MW+

The 200kW turbine is also available in 600kW, 800kW, and 1MW configurations
Capstone Products

- Available for gaseous & liquid fuels

C30 & C65

C65 CHP

C200
Packaged Solutions

- Operates as a single 600-1000kw genset
- (3), (4), or (5) C200 Units
- Enclosure with ISO Footprint
- Stable combustion from 100% to idle
Packaged Solutions (cont.)

- 2 to 8 C65 Units on pre-engineered skid
- Can operate as a single 120KW to 520KW genset
- Stable combustion from 100% to idle
Packaged Solution (cont)

• One electrical connection; one fuel connection
• Perform maintenance on 1 while all other units continue to operate
How do Models Differ?

C30 CONTROL MODULE

C65 CONTROL MODULE

C200 CONTROL MODULE
Hazardous Location Products

• Available for C30, C65 and C200
• UL Certified Class I Div 2 or ATEX Zone 2
• Enclosure fabricated from 316 SS and pressurized with explosion proof blowers
• Gas detection and heat detection
• Remote PLC controller for safety functions
Microturbine Controllers

- Capstone designed
- PLC based system
- Customizable user interface

Single microturbine

Multiple microturbines
VALUE PROPOSITION
Market View

• Shale gas is a valuable product, often associated with the recovery of hydrocarbon liquids.

• Flaring/venting is viewed as wasteful as it produces no economic benefit.

• Methods to monetize
  – Conditioning and compressing into pipeline
  – Gas by wire (exporting to grid)
  – Onsite power generation
Value Proposition

- Microturbines allow customers to utilize Shale gas as a local fuel source to generate power
  - Economic solution
    - Produce site power using local fuel source
    - Save money by eliminating diesel usage
  - Environmental benefit
    - Microturbines have very low emissions
    - Increased efficiency with the use of exhaust heat recovery
  - Onsite/Remote power generation
    - Requires no power or pipeline infrastructure
    - Gas treatment minimal to use gas in Microturbine
Value Proposition (cont.)

- Can relocate microturbines as gas flows change
- 100% turndown capability
  - Modular design maintains performance through turndown
- High H2S tolerance
  - C30 = 70,000 ppm
  - C65, C200-C1000 = 5,000 ppm
  - Higher H2S value possible with factory approval
- Fuel Constituents
  - Heating value (550-2550 BTU/scf)
  - CO₂ (Up to 41%)
  - N₂ (Up to 22%)
- Microturbines require minimal fuel pre-treatment and no exhaust after treatment
PROJECTS
Shale Gas - Anadarko Petroleum

Application
Prime Power / Stand Alone

Technologies
15+MW in Eagle Ford and Marcellus using Capstone C65 and Capstone C200

Project Highlights
- Provides power for:
  - Compressor stations
  - LACT units
  - Artificial lift equipment

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Application
Prime Power / Stand Alone

Technologies
Capstone C1000

Project Highlights
- Prime power for multiple facilities
- Lease Automatic Custody Transfer (LACT)
- Customer has 15MW+ of Capstone microturbines
Flare Gas – Talingas Gas Field, Australia

Application
Prime Power / Stand Alone / CHP

Technologies
3MW using Capstone C1000s with Heat Recovery Modules

Project Highlights
• Power used for water treatment equipment and site needs
• Operate on CBM gas
• Waste heat used for RO water preheating
• Remote location, Australian Outback
• Operation in harsh climate
Shale Gas – XTO Energy

Application
Prime Power / Stand Alone

Technologies
6.3 MW across 4 projects using
2x Capstone C65
2x Capstone C600 and 5x C1000

Project Highlights
• Williams is a major transmission company
• Provides power for shale gas compressor station
Shale gas – Crestwood

Application
Prime Power / Stand Alone

Technologies
2.4MW across 3 projects using 3x Capstone C800

Project Highlights
• Midstream company contracted to Antero in WV
Shale Gas – Kansas

Application
Prime Power / Stand Alone

Technologies
Pre-engineered C195 Package

Project Highlights
• Powering electric submersible pumps (ESP)
Marcellus Shale – Chevron

Application
Prime Power / Stand Alone

Technologies
215kW across 6 projects
5x Capstone C30
1x Capstone C65

Project Highlights
• Powering electric submersible pumps (ESP)
Microturbine Installations in CNPC and Sinopec Project Sites
CNPC Kazakhstan Pipeline Project

CNPC CPPLB as EPC contractor
26x C30 + 2x C65
CNPC Alwaha Oil Project in Iraq

Installed location - Ai Hardy Bbu Oil field.
Microturbine with associated gas as prime power to drive ESP (@ 170kw).
2x C200
The world needs a dependable, ultra-clean power source more than ever before.

Super low emissions – better than the toughest global standards.

Power when and where you need it. Clean and simple.

www.capstoneturbine.com