Capstone Green Energy

Rental Solution

U.S. Midstream Natural Gas Co.

Oil & Gas

Power Profile

Customer
U.S. Midstream Natural Gas Co.

Location
Southern New Mexico

Commissioned
2024 & 2025

Fuel
Pipeline Natural Gas

Technologies
- (8) C1000S Microturbine Rentals
- (2) C1000S Purchased Microturbines

Lease Term
12 Month Rental

Capstone Green Energy Partner
Horizon Power Systems

The Challenge

A U.S. based midstream natural gas company developed and operates 220+ miles of gas pipelines interconnected with five compressor stations, a gas treatment and sequestration facility and two acid gas injection wells. No utility power was available at the five compressor stations, and the Client was under a critical fast track schedule requiring a redundant generator solution to power each compressor station (including BOP equipment) and achieve gas flow through the complete system. To maintain project timelines and meet environmental regulations, including New Mexico's stringent air quality permitting requirements, the customer required a rapidly deployable, redundant power solution with low emissions. Gas reciprocating generators were deemed as high-risk due to emissions and long delivery lead times. The site's remote, high-altitude terrain, ranging from 3,700 to 4,000 feet, and extreme winter and summer temperature swings added an extra layer of complexity, requiring a rugged and proven technology capable of delivering reliable performance in a remote and harsh environment.

The Solution

The customer partnered with Horizon Power Systems, Capstone Green Energy's long-standing distributor in the region, to implement a phased rental and purchase strategy.

The 2 x C1000 unit configuration located across the customer's five facilities provided a fast, reliable, redundant, load following power solution, meeting strict NMAQ emissions requirements.

— Edward Stewart, Region Executive,
Horizon Power Systems

Smarter Energy for a Cleaner Future

Capstone's C1000S microturbine systems provided this U.S. midstream operator with fast, redundant, and low-emission power—enabling reliable off-grid operation across five remote compressor stations while meeting New Mexico's strict air quality standards.

In Summer 2024, Phase 1 of the project began with a 12-month rental agreement for four C1000S microturbines from Capstone's rental fleet. Phase 2 launched in October with four additional C1000S units, bringing the total to eight C1000S rental units operating across four separate midstream compressor stations.

Each of the four compressor stations is outfitted with two C1000S microturbines, providing a total of 2MWs per site, and configured to operate in island mode using pipeline-quality natural gas. The systems feature Digital Modbus (DM) integration, UL certification, C1K controls configuration, and high-pressure natural gas compatibility. Capstone's proven technology and experience made the C1000S solution well suited to deliver redundant site power, emissions compliance and off-grid deployment on a fast-track schedule.

Following the successful deployment and operation of the rental units, the customer renewed the rental agreements for all four sites in Summer 2025 to ensure continued, uninterrupted power for system operations. The rental solution helped the customer bring their project online and generate revenue when utility power was unavailable.

Based on this performance and reliability, the customer proceeded to purchase two additional C1000S units for their newest facility. These two units were delivered on a fast-track schedule and commissioned in March 2025.

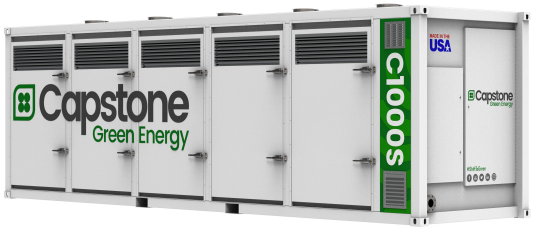
The Results

Capstone C1000S microturbine technology, reliable and redundant power supply, low emissions, rapid deployment and superior field service support allowed all four remote compressor stations to come online without delay. The C1000S solution meets New Mexico Air Quality permitting standards, allowing the customer to move forward without the regulatory setbacks common with traditional combustion-based generators.

Capstone's low-emission performance, load-following capability, and consistent field reliability reinforced the customer's trust in both the technology and Horizon Power Systems' ability to deliver tailored, on-time solutions. The success of the 12-month rental deployments directly influenced the customer's decision to purchase two Capstone C1000S units for a fifth compressor station located on the same gas pipeline system.

Capstone's rental program, supported by Horizon Power Systems regional expertise, provided the customer with an efficient and reliable path through startup, commissioning and ongoing field service support. It also set the foundation for a long-term clean power strategy across the company's expanding infrastructure.

Capstone C1000S Microturbine



A C1000S Microturbine provides 1MW of reliable electrical power in one small, ultra-low emission, and highly efficient package.

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