Baseline™ Energy Services

CASE STUDY



HELIUM PRODUCTION

Building a Reliable Power Partnership for Remote Helium Production

Distributed generation, dedicated field support, and 24/7 monitoring provided for a production-critical operation in southern Colorado.

EXECUTIVE SUMMARY

A helium exploration and production company in southern Colorado needed reliable power for a remote field without access to utility power or an onsite natural gas supply. Success required more than dependable generation. It required mechanical availability, operational visibility, and a service model capable of supporting a remote, production-critical operation.

Baseline Energy Services™ deployed distributed generation supported by spare equipment, dedicated field service, and 24/7 remote monitoring. The result was a responsive operating model designed around the reliability needs of the customer's helium production process.

2.0 MW ACTIVE GENERATION

99.9% MECHANICAL AVAILABILITY

1 MONTH TO FIRST DEPLOYMENT

100% DEDICATED FIELD SUPPORT

24 HOUR MONITORING

OPERATIONAL CHALLENGE

The customer's remote helium field relies on electric-driven compressors to support production, making dependable power and equipment availability critical. The remote nature of the operation also required a service model capable of providing responsive technical support and visibility into equipment performance across the field.



KEY OBJECTIVES

- ☑ Maintain dependable power for production-critical compression equipment
- ☑ Eliminate the impact of unplanned generator downtime in field operations
- ☑ Provide responsive technical support in a remote operating environment
- ☑ Establish visibility of generator operating conditions





SOLUTION STRATEGY

RELIABLE DISTRIBUTED POWER

2.0 MW of active generation deployed across the helium field and processing facility to support electric-driven compression and plant operations. Two dedicated 135 kW spare generators provide additional redundancy during service.



ADAPTABLE OPERATIONAL SUPPORT

As the customer's operational needs evolved, Baseline expanded its support approach to provide more responsive onsite service. A dedicated technician with compression experience was assigned to the project, bringing application-specific expertise directly to the operation.

24/7 OPERATIONAL VISIBILITY

The customer monitors its generation equipment through Baseline's Telematic Solution, supported by Baseline's in-house 24/7 monitoring capabilities.

Because the customer's generators may be intentionally started and stopped as production requirements change, traditional runtime data does not always clearly indicate an equipment issue. Baseline worked with the customer to establish customized amperage alerts that provide both teams with greater visibility of changes in operating conditions.

PROJECT EXECUTION

Initial engagement began in November 2025, with first equipment deployed in December, approximately one month later. As operational needs evolved, Baseline added a dedicated technician and customized remote monitoring to provide more proactive field support.

RESULTS

This system was successfully brought online in less than a month, generating approximately 2.0 MW of power across seven well sites. System reliability is ensured by dedicated field service, supported by Baseline's 24/7 monitoring.

SOLUTION SNAPSHOT

Deployment Timeline	1 month from initial engagement to first generator deployment
Active Generation Capacity	2.0 MW across 6 well sites and the processing facility
Field Generation	6 x 135 kW continuous-duty generators
Plant Generation	3 x 350 kW continuous-duty generators
Redundancy	2 x 135 kW spare units
Fuel	LNG
Key Solution Deliverables	Dedicated field technician, remote monitoring, customized amperage alerts, 24/7 monitoring support

WHY IT MATTERS

Reliable power in a production-critical application requires more than generation equipment alone. This project illustrates Baseline's approach to combining distributed power, dedicated field service, spare capacity, and real-time monitoring to support customers operating in remote and infrastructure-constrained environments.

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