Case Study - Alliance Pipeline
Remote Power:
Gas Metering Station

Results
The Smartgen was installed and commissioned at a remote site in British Colombia, Canada. It was placed adjacent to the Metering station and is fueled by pipeline gas. It is placed in the control room electrical panel with both the 24 VDC and 208 VAC / 60 Hz service.

Qnergy Solution
Qnergy’s Smartgen power solution is specifically designed to provide seamless and extremely reliable power generation to remote locations. With multiple configurable outputs, the Smartgen was programmed to output 1,000 Watts of power at 24VDC to supply power to the relevant control and metering hardware as well as an additional output of 3,000 Watts at 208VAC (single-phase) to provide heating service to the control room.

Introduction
The Alliance Pipeline consists of a 2,391-mile integrated Canadian and U.S. natural gas transmission pipeline system, delivering rich natural gas from the remote Western Canadian Sedimentary Basin and the Williston Basin to the urban Chicago market hub. Due to their remote location there are a number of sites along their transmission path which do not have electrical grid service available to support their highly controlled and automated network of gas transmission facilities. Providing reliable continuous power to these sites is critical for the safe and efficient operation of the network.

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Qnergy at a Glance

Qnergy is a company focused on providing energy to a world market looking for innovative, cost effective and efficient ways to energize the future. With more than 40 years of expertise and proven reliability, Qnergy brings proprietary, high-performance Stirling engine technology to the marketplace for commercial, industrial, and residential applications.

Qnergy products include the advanced free piston designed QB series Stirling engine generator that is incorporated into products for remote power for oil & gas, telecom, space and water heating as well as other off-grid applications.

Qnergy has the ability to bring talent and technology together with its customers, suppliers, and investors to develop unique energy solutions for the 21st century. The company is headquartered in Ogden, Utah.

Alliance SmartGen Configuration:

About Alliance Pipeline

The Alliance Pipeline system (2,391-miles) delivers rich natural gas through an integrated Canadian and U.S. natural gas transmission pipeline. The system as been in commercial service since December 2000 and, through an innovative suite of customer-focused services, delivers an average of 1.6 billion standard cubic feet of natural gas per day.

Providing a reliable connection to the vital US Midwest market, Alliance offers firm transportation as well as seasonal and daily interruptible service. Alliance is dedicated to being North America's most reliable, safe, competitive and environmentally-responsible natural gas transporter.

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