



Success Story

Remote Power: ICCP PowerGen 5650



Introduction

Providing adequate Impressed Current Cathodic Protection is essential for the ongoing safety and integrity of natural gas transmission pipelines. One of the larger pipelines in the western United States is a 3,900 mile line which is a primary artery for the bi-directional transmission of natural gas to the Pacific Northwest and Intermountain Region. The pipeline, due to its geographical location, runs thru some very remote regions and does not have any access to the electric utility to power it's safety-critical Cathodic Protection sites. Providing ultra-reliable power to these sites, at an affordable price, is a challenging task.

Qnergy Solution

Qnergy's PowerGen 5650 power solution is designed to reliably transform pipeline natural-gas into steady and continuous electrical power. The PowerGen is an extremely low maintenance generator, due to zero required maintenance to the core engine. With multiple configurable outputs, the PowerGen 5650 at this site was programmed to output electric power at the preferred input operating voltage of 120VAC/240Vac (single-phase) for use with a standard 80V/60A rectifier.



Results

The PowerGen 5650 was installed adjacent to the natural gas transmission pipeline and fueled directly by pipeline gas. Electrically, it was coupled to multiple ICCP rectifiers with a standard 3-conductor cables carrying 240VAC (120VAC – 120VAC).

Application	Remote Impressed Current Cathodic Protection
Load	ICCP Rectifier 80 VDC / 60 A
Operating Profile	24/7 Continuous Power
Power Output Configuration	120VAC / 240 VAC (1-Phase)
Power Output Setting	3200 Watts
Fuel Source	Pipeline Natural Gas



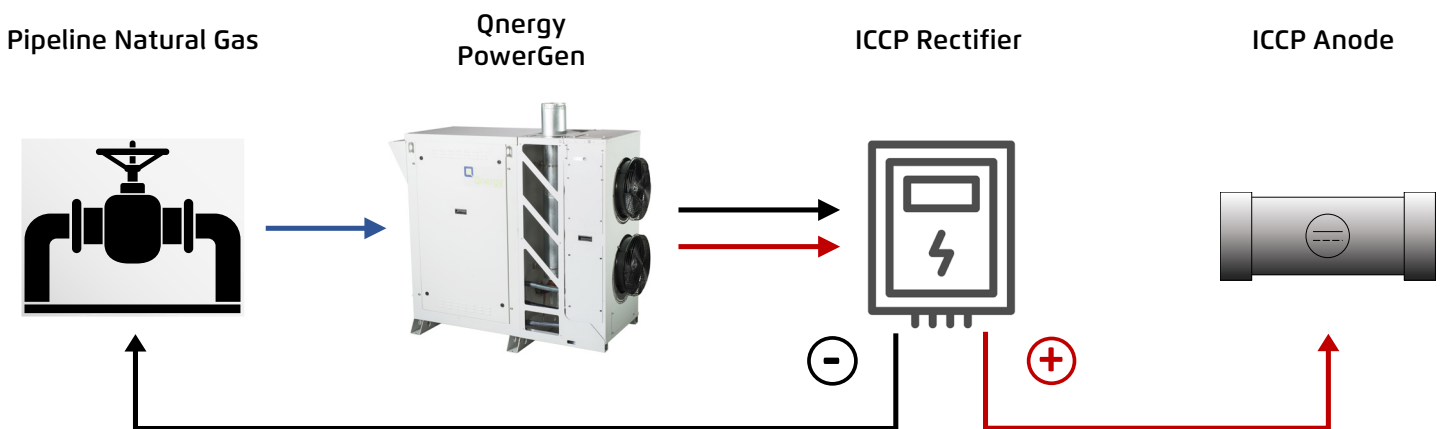
Qnergy at a Glance

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.

Moab Pipeline SmartGen Configuration:



The PowerGen configured to ICCP Application is one of 5 standard configurations to meet your remote power needs.

Contact Information

USA
300 W 12th Street
Ogden UT 84404 | USA
(801) 752 0100 | info@qnergy.com

www.Qnergy.com