



# ICCP PowerGen Pipeline

## Introduction

Providing adequate Impressed Current Cathodic Protection (ICCP) 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 both the Pacific Northwest and Intermountain Region. The pipeline, due to its geographical location, runs through remote regions and does not have 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

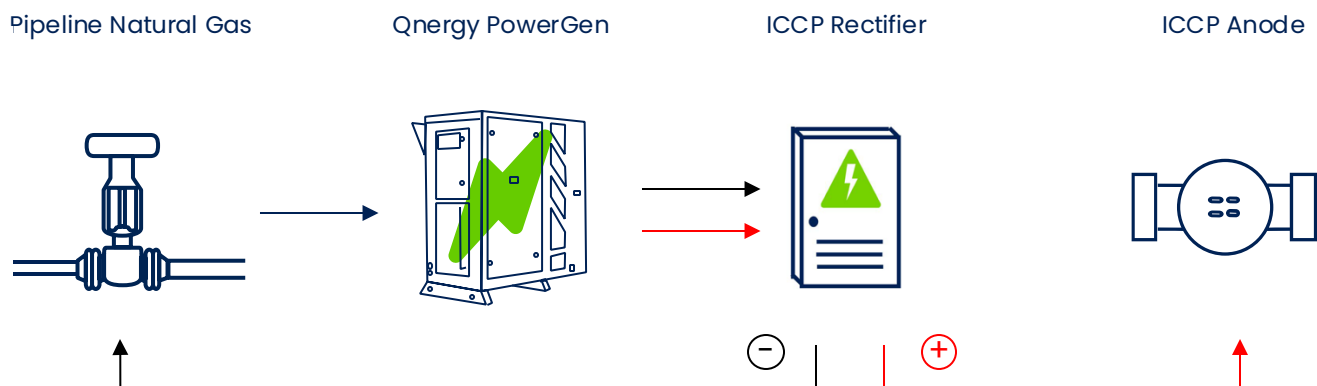
Qnergy's PowerGen5650 is designed to reliably transform pipeline natural-gas into steady and continuous electrical power. The PowerGen has minimal maintenance requirements due to the Free Piston Stirling Engine. With multiple configurable outputs, this PowerGen was programmed to output power at the preferred input operating voltage of 120VAC/240Vac (single-phase) for use with a standard 80V/60A rectifier.

## Results

The PowerGen is installed adjacent to the natural gas transmission pipeline and fueled directly by pipeline gas. Electrically, it is coupled to the ICCP rectifier with a standard 3-conductor cable carrying 240Vac (120VAC – 120VAC).

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

### PowerGen Configured to ICCP Application



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

#### About Qnergy

Qnergy provides power solutions that work reliably with a broad range of heat sources including raw natural gas and biogas. Qnergy's Stirling engines are enclosed, frictionless external combustion systems that require no lubrication, oil-change or repair and can deliver tens of thousands of hours of uninterrupted operation. Qnergy leverages it's reliable off-grid power to drive air compressors that help the natural gas industry eliminate methane emission from pneumatic devices.



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