

Success Story: Remote Power ICCP PowerGen



A Canadian producer in remote Northeastern BC has suspended plant operations but maintains portions of their pipelines that are in locations without access to utility grid power. In order to provide electrical power to their essential corrosion prevention equipment, such as ICCP (Impressed Current Cathodic Protection) rectifiers, this company needs simple and extremely reliable electric power solutions that can run on propane. Due to the remote locations, a low maintenance solution with minimal fuel consumption and minimal maintenance requirements is essential to project economics.

Qnergy Solution

OilPro's ICCP solution transforms pipeline natural gas into reliable electrical power. PowerGen has 2 electric legs available, one for a CP rectifier and the other can run a converter for SCADA loads. This application has two major plant sites 1 mile apart. Propane-fired 1200- and 4300-Watt systems were chosen to match each ICCP. With 2 output legs available, the PowerGen 5650 was configured to put out rectifier power as well as power for a cellular booster to aid SCADA and SmartView®. Available GHT (Glycol Heat Trace) system captures waste heat to ensure reliable propane vaporization below -20°C. *Considering us for your ICCP? Please have your Voltage range, current/ground bed resistance & SCADA power requirements ready.*



	PG 1200	PG 5650	
Application	230V 22.3A ICCP	230V 22.3A ICCP	120V 0.4A booster
Operating Profile	24/7 continuous	24/7 continuous	24/7 Continuous
Power Output Configuration	240VAC, Single phase	240VAC, Single Phase	120VAC Single Phase
Power Output Setting	1670 Watts	3590 Watts	48Watts
Fuel Source	Propane	Propane	

Result

The PowerGens are installed and commissioned adjacent to each pipeline vertical cathodic bed and electrically coupled to the IRT ICCP rectifiers with a standard cable. The company was able to retire the oversized Diesel Gensets. Minimal fuel costs improved economics compared to multiple TEG, fuel cell or solar/battery systems, with the PowerGen standing out for robustness against theft/vandalism, durability, efficiency and heat recovery ability.