Case Study Outline

The Challenge

Located in Drayton Valley, Canada, a midstream company operating a liquids pipeline was looking for remote power solutions. Drayton valley receives heavy snowfall and winter temperatures as low as -35C (-31F). Heavy snowfall can disrupt alternative power sources like solar power if the panels are covered. This often leads to deep discharging of the batteries causing regular replacement. Line power in the area was available, but ongoing service fees made the option cost prohibitive for such a low power site.

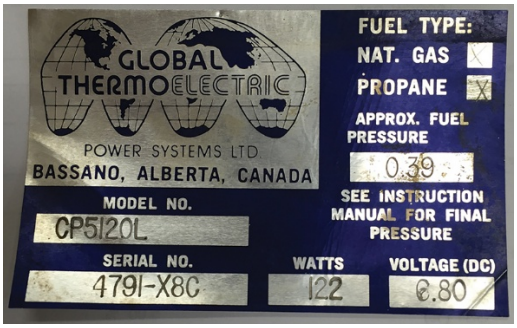
The Solution

The midstream company selected to use a thermos electric generator (TEG) which generates DC power from heat, supplied by the combustion of propane or natural gas. The solution chosen was a propane 5120 TEG from Global Power Technologies. The technology was chosen due to its reliability in all weather conditions and to reduce dependance on batteries in efforts to limit required site visits.

Success Story

The unit was commissioned in 1987 and has provided reliable cathodic protection to a pipeline for over 30 years. Following commissioning, the original power unit was replaced in 1996 and after returned, the unit continued to provide in-field power for another 21 years. GPT received the TEG for service and refurbishing in 2017 and it once again returned to the field, it continues to provide reliable, uninterrupted power in all weather conditions.







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