

Case Story



Hydrogen Blending in a Populated Area

Client:

A Canadian energy transportation company with headquarters in Calgary, Alberta, operates an extensive network of pipelines across North America, transporting crude oil, natural gas, and other liquid hydrocarbons. The company is also involved in renewable energy generation and prioritizes safety and environmental stewardship.

Challenge:

In 2021, the client in Eastern Canada embarked on a hydrogen enhancement initiative in their natural gas line, driven by a government mandate to increase the hydrogen blend. To assess the implications of this hydrogen increase, comprehensive testing was conducted on the upper and lower limits of their flow meter to evaluate potential equipment constraints. Given the testing site's location in Ontario was a densely populated area near the company's facility and a car dealership, careful consideration was paramount to mitigate any impact on the local population throughout the testing process.

TCI Solution:

The client engaged TCI to explore incineration options, considering the prominent visibility of the test. Collaboratively, both companies assessed the project requirements to determine the optimal size of the incinerator, accommodating both maximum winter flows and minimum summer flows. As a result, TCI successfully supplied a trailer-mounted incinerator that enabled the pipeline company to blend hydrogen into their natural gas line and conduct testing without causing any disruptions to the general public.



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