

Customer Case Study

LoCI increases mid-continent landfill gas to high BTU project's revenue by 30% on average over an 18-month period

Customer Problem

A landfill gas (LFG) to high BTU project historically generated an average of 1,550 scfm of landfill gas flow from 129 collection wells, with approximately 55% methane. To meet pipeline specifications, nitrogen in the gas collection system had to be limited to less than 2%. Maintaining the gas quality was challenging, and manual well tuning could not effectively optimize the collection system due to the constantly changing environment. As a result, gas quality often fell short of the pipeline specification, which led to gas flaring with no revenue generation during these periods.

LoCI Solution

The LFG to high BTU project operator engaged LoCI for its real-time data and control system. In August 2017, LoCI installed 50 Controllers, which represented approximately 65% of the overall gas flow. In mid-2018, as a result of the improved revenue and project uptime, the LoCI system was expanded to 100 wells, representing over 90% of the gas collection.

All LoCI automated gas collection operations were supported by both LoCI analysts, who remotely reviewed data and alerts, as well as LoCI's on-site field service representatives, who performed routine maintenance and provided customer support.

Results

Use of LoCI's real-time data and control system resulted in a year-over-year increase in gas delivered to the pipeline, as well as an increase in associated revenue by over 30% relative to the year prior, when manual tuning was used.

During the 18-month period, there was a dramatic reduction in downtime that was previously due to LFG not meeting specifications. The net return to the LFG project operator as a percent of LoCI's service fee over the 18-month period exceeded 5x.

