

Micro Motion® Flowmeters Provide Potential Savings of \$39,760 in Annual Fuel Costs

BENEFITS

- Potential reduction of \$39,760 per year in utility costs
- Improved predictability for process costs
- Improved forecasting for better business management



PROCESS

A major manufacturing operation uses large amounts of natural gas fuel. In previous years fuel usage was very high, but usage has decreased significantly in the last few years. Average gas flows are now approximately 8500 SCFH (standard cubic feet per hour).

The facility does not measure the fuel independently. The supplier currently uses a 3" positive displacement (PD) meter on the natural gas supply line. Accuracy of PD meters in the current flow range is low. It is not known how often the supplier's PD meter is checked for accuracy.

Using a check meter, pay only for product used

CHALLENGE

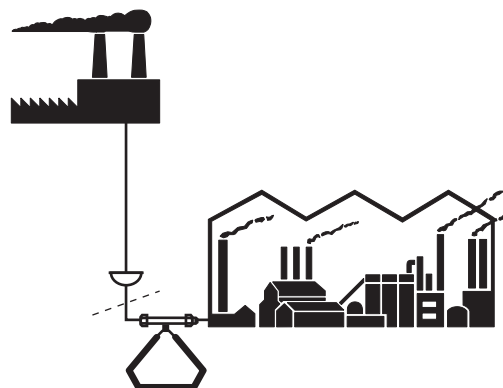
On any given day, fuel consumption can vary from 2,000 to 20,000 SCFH. This wide variation presents an accuracy challenge to any meter.

Estimated accuracy for the PD meter currently in use is 6.75% at 8500 SCFH. This equates to a potential error of 574 SCFH. Assuming an average fuel price of \$8 per 1000 cubic feet, the plant could be charged up to \$110 per day, or \$40,150 per year, for fuel it had not used.

SOLUTION

To provide the best accuracy at current gas consumption rates, a 1" Micro Motion® sensor with MVD® electronics is recommended. At the average daily consumption rate of 8500 SCFH, this flowmeter provides 0.4% accuracy, for an accuracy gain of 5.35%. Translated into dollars, improved accuracy in natural gas measurement could reduce losses up to \$104 per day, or \$37,960 per year. At these flow rates, the Micro Motion flowmeter will be paid for in less than 80 days.

www.micromotion.com



ELITE® meter installed in-line with gas supply



For more information:
www.EmersonProcess.com/solutions/chemical
www.micromotion.com



