

HYDROCARBON LOSS CONTROL

ENERGY SECTOR CASE STUDY



One of the largest independent refiners and marketers of petroleum products in the US engaged Trindent to improve their Hydrocarbon Loss Control performance, improve the mass balance accuracy, and improve crude oil inventory levels.

39%

**REDUCTION IN MASS
BALANCE LOSS**

\$5,400,000

**ANNUALIZED
SAVINGS**

10%

**REDUCTION IN CRUDE
DAYS INVENTORY ON
HAND**

HOW WE MADE IT HAPPEN

Sediment and water sampling & testing:

- Improved sediment and water reporting accuracy by 85%
- Identified discrepancies in sediment and water measurement at crude rail receipts and implemented alternative measurement and ticketing process
- Designed and implemented sediment and water discrepancy reconciliation process between crude railcar loading and receiving locations

Management and system tools:

- Implemented meter factor control charts to monitor custody transfer meter performance and quickly identify meter measurement errors
- Developed training materials for ongoing site-level personnel training, including digitized visual materials for company-wide computer-based trainings
- Installed meter measurement and tank gauging variance dashboards to monitor hydrocarbon loss control performance

- Developed and installed a tank strapping tracking tool to monitor and recalibrate inventory levels, resulting in a 10% reduction in crude days inventory on hand

Meter measurement oversight:

- Implemented meter oversight program aligned with American Petroleum Institute (API) guidelines to ensure reliable measurements by all custody transfer meters
- Identified and corrected errors in flow measurements at crude railcar offloading facility
- Improved meter proving compliance by 27%
- Improved communication and data exchange with refined products pipeline operator to enable timely availability of data for meter performance analysis
- Designed and installed meter measurement errors investigation and escalation process
- Reduced consecutive out of tolerance tank temperatures by 76%

"The Trindent team quickly identified additional significant areas of opportunity at our facility and were able to enhance our measurement processes early on in the engagement. Your team was instrumental in developing and enhancing local loss control expertise at our refinery and transitioned a wealth of experience and industry knowledge to our people."

WE'RE HERE TO MAKE IT HAPPEN™.
CONTACT US TODAY AT info@trindent.com.

-Plant Manager

