



DATASHEET

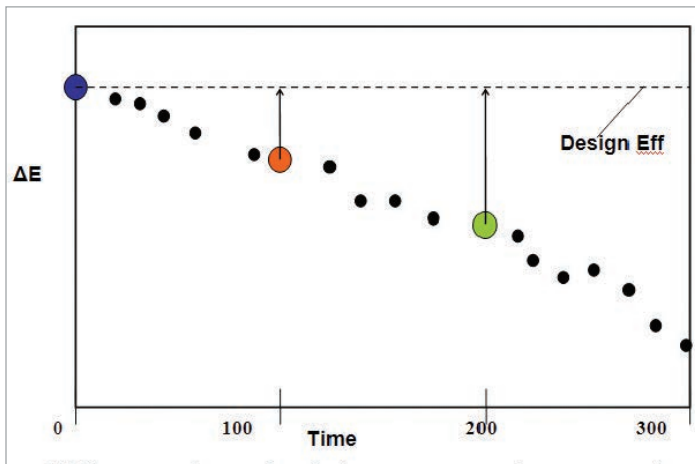
AVEVA™ Process Optimization

Natural Gas Processing Plant Optimization

AVEVA Process Optimization enables you to take control – to drive your gas plant to greater profitability. Natural Gas Processing Plant Optimization takes away the headaches and removes the simple mistakes to help you operate more efficiently. This new concept in online operations decision support helps your unit evolve into a predictable, controllable system that responds to changes in supply, demand, equipment capabilities and economic factors. This solution will not only allow you to fully see and understand what is happening inside the pipes and vessels, but will also provide quantitative information for decision making. Natural Gas Processing Plant Optimization will help you run more efficiently to improve your profitability.

Features

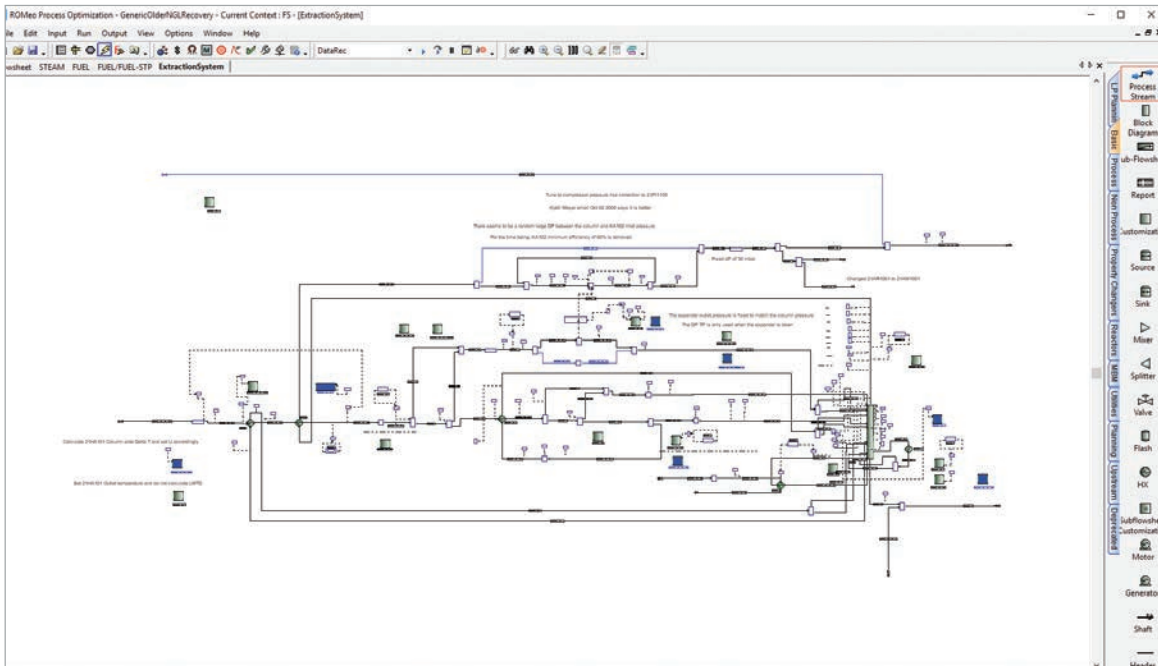
- Integrated turn-key package
- Easy-to-use Microsoft® Excel interface
- Completely automated with direct access to live process data
- Acts as a soft sensor for unmeasured process values
- Detailed, automated daily and weekly rolebased reporting



Benefits

Natural Gas Processing Plant Optimization serves as a support system that provides guidance for operations and maintenance decisions. Benefits include:

- Predictive Asset Optimization asset reliability
- Input for a proactive maintenance program
- Improved plant efficiency
- Increased personnel effectiveness leading to greater market agility
- Determine the impact of equipment efficiency on plant profitability
- Evaluate the economic benefits gained from process improvements
- Prioritize work lists for underperforming equipment and faulty instrumentation, based on real economics input to planning system and evaluating gas processing contracts



Natural Gas Processing Plant Optimization equals profitability

Lower operating costs – equipment efficiency monitoring

Natural Gas Processing Plant Optimization looks at the real process and economic effects of equipment efficiency degradation and evaluates the impact of servicing that equipment. Often, the most fouled exchanger or most inefficient compressor isn't the one with the highest economic impact. Natural Gas Processing Plant Optimization provides an integrated model to monitor all of your rotating equipment (turbines, compressors, expanders and pumps), distillation towers and heat exchangers to allow determination of the interactions of various plant components. Natural Gas Processing Plant Optimization not only identifies current readings, but with the Excel-based "what-if" analysis, can pinpoint where operations should be for highest efficiency and return.

Optimized operations – advisory optimization

Natural Gas Processing Plant Optimization is tied to real-time process and economic data, providing the most current depiction of plant conditions and profitability. It enables nonlinear optimization using flexible and configurable objective functions, to yield the most accurate advice that matches the operating goals. Natural Gas Processing Plant Optimization provides reusable models for offline and online optimization, providing a consistent and current tool as modeling requirements change.

Improved productivity – automate the routine

Process engineers are burdened with more and more work these days. Natural Gas Processing Plant Optimization will offload various daily tasks so that engineers can focus on more important issues. Automated calculations and reporting detailing past, current, and predicted unit performance is just a part of Natural Gas Processing Plant Optimization.

Better maintenance – instrument reporting

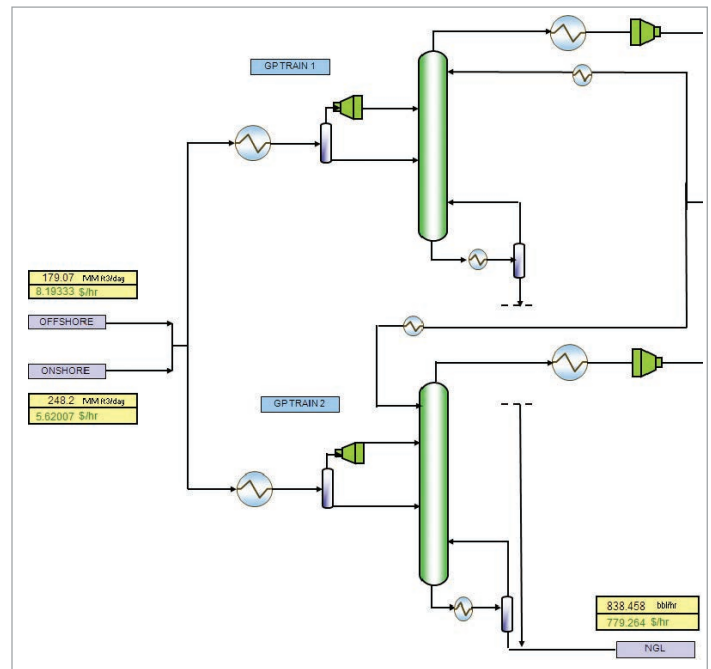
Natural Gas Processing Plant Optimization performs data reconciliation and material balance calculations to guide users to recognize, and remediate, the instruments in greatest need of calibration or repair.

Soft sensor

Most gas plants struggle to close material balance due to unmetered bypasses, vents, flares and other losses. Natural Gas Processing Plant Optimization soft sensor capabilities can help fill in those missing blanks, making it easier to understand how the unit is actually running.

Simplifying life – easy to use

Natural Gas Processing Plant Optimization uses Microsoft Excel as the primary interface for both input and data reporting, making it a familiar, comfortable working environment for most unit engineers. But don't let that comfort fool you – there is a fully rigorous model underneath.



We take on the maintenance

Engineers don't have time to be updating and maintaining process models. That's why Natural Gas Processing Plant Optimization takes the maintenance concerns off your task list. The package includes two weeks of annual software maintenance at no additional cost.



Increased accuracy

Since Natural Gas Processing Plant Optimization is fully automated, the data is accurate and consistent. There are no concerns about typing in a value wrong or missing a unit of measure. Natural Gas Processing Plant Optimization takes care of those issues and gives you consistent quality data, every day.

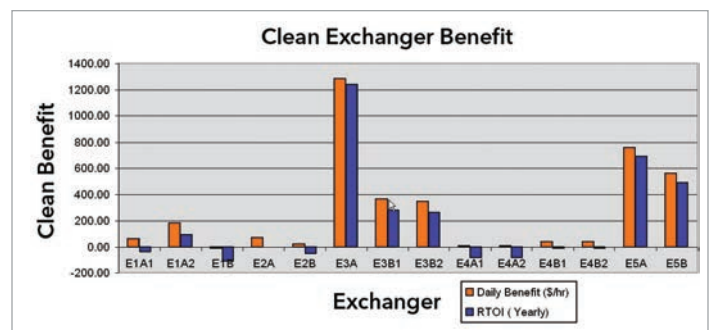
No shortcuts

Natural Gas Processing Plant Optimization is filled with features to make the right choice easy. Benefit from the following:

- Rigorous model-driven application
- Integrated model of fractionation, rotating equipment and heat exchangers
- Excel input sheets for feed quality and pricing
- Fully configured and automated reports for:
 - KPIs (liquid recovery, specific processing cost, shrinkage)
 - Material Balance
 - Rotating equipment efficiency and impact on profitability

- Exchanger Fouling/Ranking Report
- Tower Efficiency Report
- Daily Engineering Report
- Weekly management report

- Quick delivery and quick return on investment
- On-site application training
- Annual maintenance support



For more information on AVEVA Process Optimization, please visit: aveva.com