QuickOptimizer©

Real-Time Optimization   U.S. Patent 7,463,937

For Control Engineers and Planners who are dissatisfied with existing approaches to Planning Accuracy, Real-Time Optimization, & Process Analysis. QuickOptimizer is a reliable, fast robust Windows-based application. Because it has an accurate built-in model of the plant, it easily tracks Planning LP performance & improves your LP model. Quick Optimizer also pushes your multivariable controllers to make more money in real time, and provides powerful tools to help you better understand your plant operation. Expected benefits are 15-30 ¢ / BBL.

Application design / Benefits

During application design, benefits are accurately calculated, based on a unique rigorous methodology. A detailed report explains how much the benefits are, and what QuickOptimizer will do differently from existing advanced controllers. The benefits-oriented design approach produces an application focused entirely on making money for the customer.
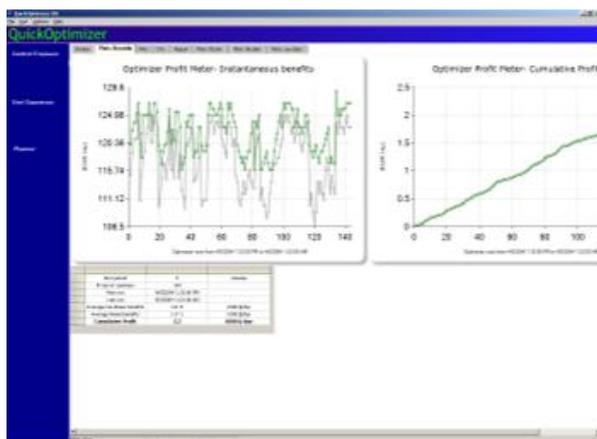
The application

The heart of the application is an accurate non-linear model of the process. The model is compact, fast and reliable, optimizing in less than one second. A fast model plus a Windows-based interface helps users to do their jobs better:

Planner: More accurate Planning LP

Control Engineer: Real-time optimization
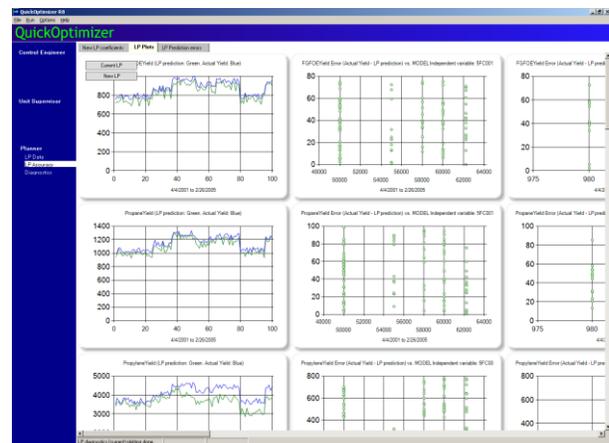
Operations: Process understanding

Value

Quick Optimizer generates measurable value for each of the people who use it.

Planner- More accurate planning models result in better make/buy decisions. These can be worth millions of dollars per year for a single refinery.

QuickOptimizer equips the Planner with powerful visual tools to easily monitor how well the LP's predictions match the plant. New base and shift vectors are calculated automatically in LP format, and can be copied and pasted directly into the LP. These tools help the Planner to increase the credibility of the planning LP.

Control Engineer- The real-time optimizer pushes the multivariable controllers to make more money. A built-in Profit Meter measures and documents the real-time application performance. Optimization benefits are 5-15 ¢/BBL. The solution is just as accurate as older approaches, but is far simpler to use and maintain.

Operations & Process Engineer- Visual tools allow these users to do detailed economic analyses very quickly. It helps the board operators and the process engineers to quickly visualize and understand how to better run the plant.

Why it's better

- Do more with your existing staff.
- Increase LP model credibility.
- 3 Modules: Planner, Control Eng., Process Eng.
- Modules configured one at a time, as needed
- Accurate plant model solves quickly & reliably.
- Maintenance included as part of the solution.