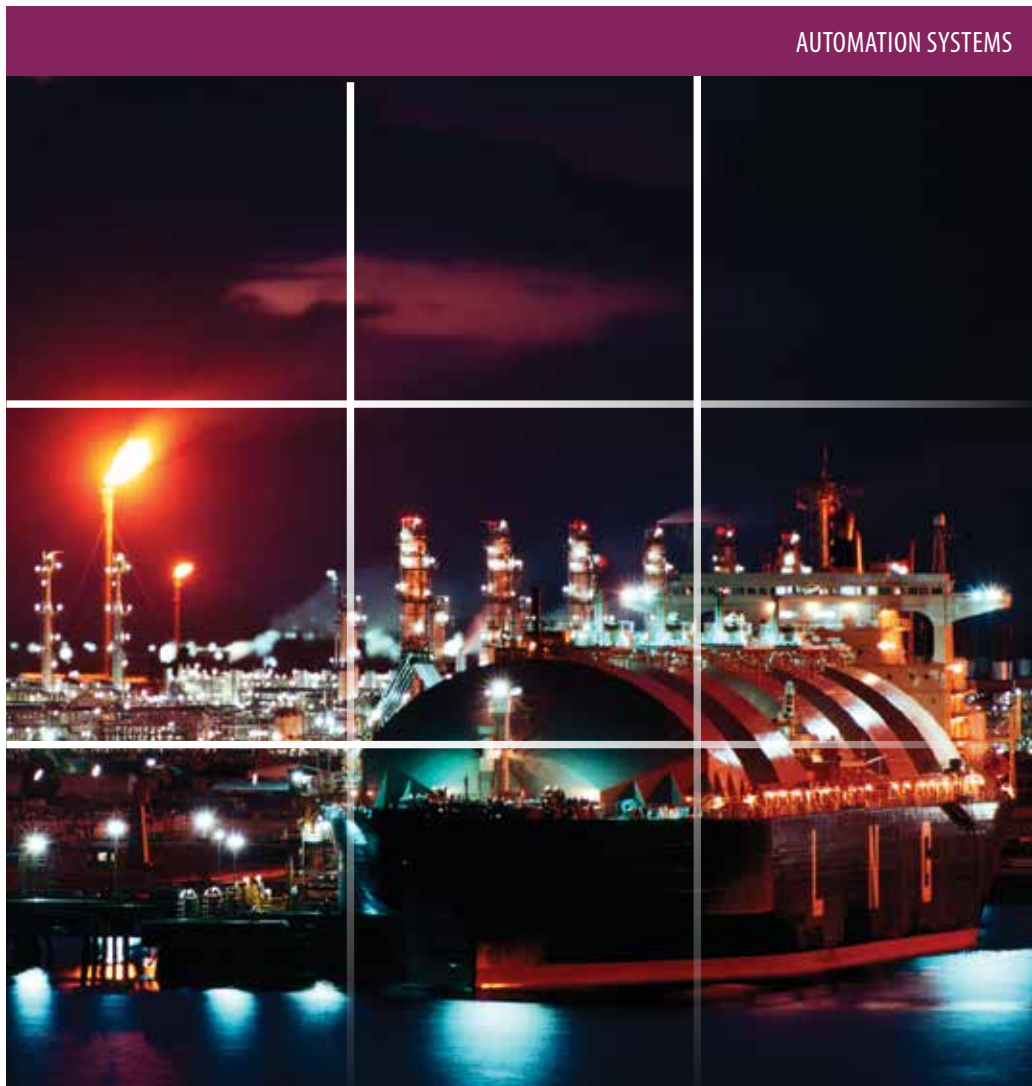


# PlantESP™

Plant-wide PID diagnostic and optimisation technologies ideal for process control applications such as refining.



AUTOMATION SYSTEMS

- Performance Improvement Technology
- Maximising Your Process Optimization Initiatives
- Simplifying Process Optimization
- Enhancing Your Automation Investments



## PlantESP™ – Loop Performance Monitoring

### PID Loop Monitoring and Analysis Solution for Improving Process Performance



*PID Diagnostic & Optimisation Solutions*

#### Performance Improvement Technology

PlantESP™ equips staff with advance warning of PID control-related issues that lead to production inefficiency and unplanned stoppages. PlantESP uses existing historical data to actively evaluate the performance of PID controllers and to recommend appropriate corrective action for improving control.

With this enhanced awareness, production and maintenance staff can minimize downtime and maximize plant profitability.

- Implementations completed 70% faster than competing solutions
- Cost ~50% lower than other comparable solutions
- Complements existing Pavilion® and/or VantagePoint implementations

#### Maximising Your Process Optimization Initiatives

PlantESP enhances the value of your existing maintenance program and improves your plant's Total Cost of Ownership (TCO). With automated analysis and alerts, you gain reliable and extra sensory perception of your plant's performance around the clock. PlantESP automatically notifies you of negative trends and supplies an alert with both recommendations and step-by-step instructions for re-establishing effective control. With a clear listing of optimization opportunities, users can finally realize benefits of improved regulatory control, including:

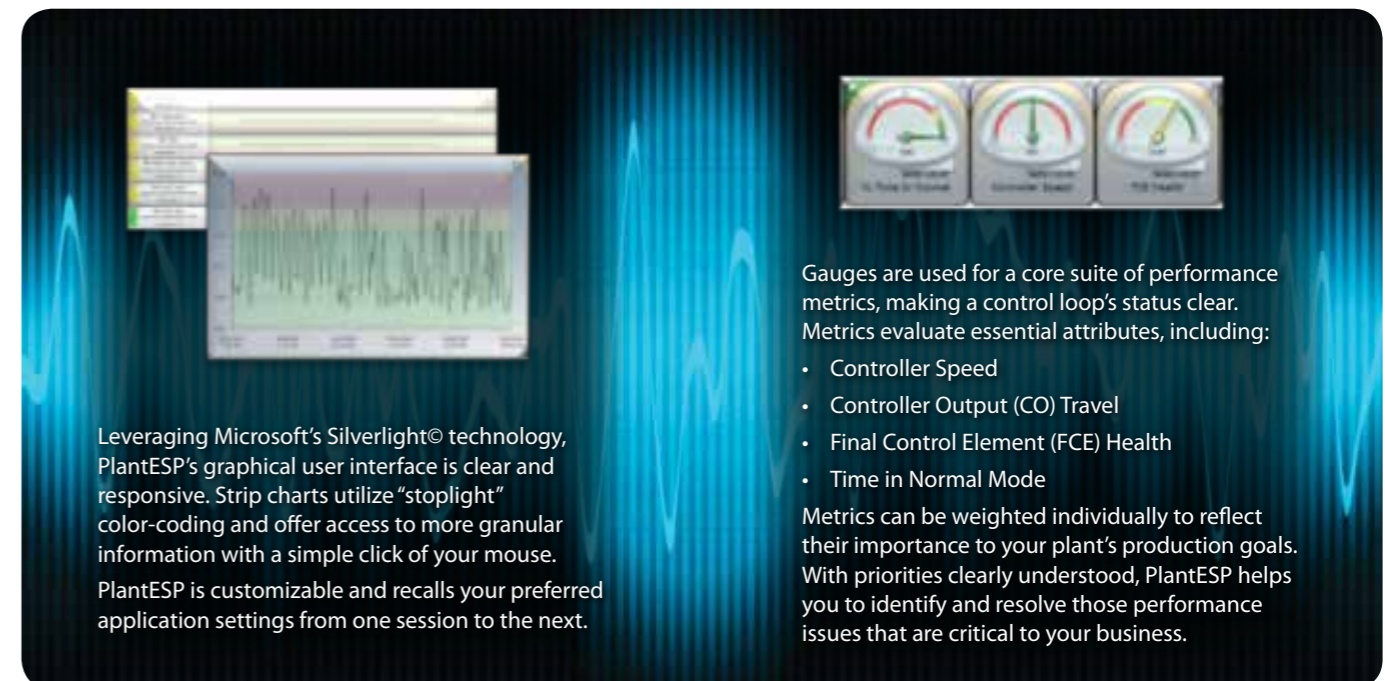
- Reduced energy consumption (5% - 15%)
- Increased production throughput (2% - 5%)
- Reduced waste and production-related defects (25% - 50%)
- Increased production yield (5% - 15%)

#### Simplifying Process Optimization

PlantESP is easy to implement, easy to configure, and – most importantly – easy to use. With conventional gauge-based metrics and familiar “stoplight” color coding, PlantESP makes it easy to assess the status of any production unit or PID controller relative to its performance benchmark. By using state-of-the-art navigation, PlantESP helps you identify the root cause quickly

#### Enhancing Your Automation Investments

You already have the data – let PlantESP put it to work. PlantESP integrates quickly with your existing data historian and operates with minimal network traffic. View performance information graphically or in a sortable table format. PlantESP's flexibility makes it easy to uncover opportunities for improvement and to increase the return on your plant's automation investments.



Leveraging Microsoft's Silverlight® technology, PlantESP's graphical user interface is clear and responsive. Strip charts utilize “stoplight” color-coding and offer access to more granular information with a simple click of your mouse. PlantESP is customizable and recalls your preferred application settings from one session to the next.

Gauges are used for a core suite of performance metrics, making a control loop's status clear. Metrics evaluate essential attributes, including:

- Controller Speed
- Controller Output (CO) Travel
- Final Control Element (FCE) Health
- Time in Normal Mode

Metrics can be weighted individually to reflect their importance to your plant's production goals. With priorities clearly understood, PlantESP helps you to identify and resolve those performance issues that are critical to your business.

To identify hidden opportunities for savings at your plant and to learn how PlantESP can help you maintain a competitive advantage, call NHP toll-free today and ask to speak with a Solutions Engineer.

“Control Station's products will certainly help our process customers to focus their efforts in finding and addressing loop performance challenges, leading to higher quality, reduced costs, and increased reliability of their control applications.

Ben Mansfield, Process Product Manager, Rockwell Automation



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