OpreX[™]Profit-driven Operation

OpreX Profit-driven Operation Solution to Enable Integrated Plant Performance Management - Comprising proprietary metrics methodology for cross-organizational alignment with highlevel objectives -

Performance Metrics Methodology

This unique solution has been made possible by integrating Yokogawa's expertise in industrial automation technologies with the extensive domain knowledge of experts at KBC, which has decades of global analysis and consulting experience with major energy and chemical plants. Yokogawa collaborated closely with KBC industry consultants to first define and then systematically structure several hundred metrics, which Yokogawa calls "synaptic performance indicators" (SPIs), that are collected at the plant operations, engineering, and top management levels in refinery operations, based on deep knowledge of how they affect plant performance.



Conceptual framework of how top management, engineering, and operations SPIs are structured to align with high-level plant management objectives

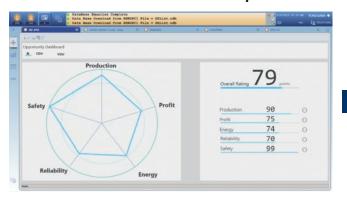
New Performance Dashboard

By integrating our new performance dashboard and related services into a CENTUM™ distributed control system*, we can increase the efficiency of plant operators monitoring in real time how their operation patterns are impacting high-level plant management objectives.



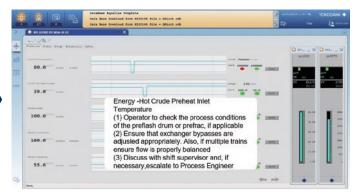
When this solution is implemented at a plant, optimal setpoint ranges are determined for each SPI. If an indicator moves outside the ideal range, built-in expert advice is displayed to support prompt action by junior and senior operators alike. SPIs and operator performance data are automatically collated for internal and industry benchmarking, root cause analysis, and expert consulting to realize continuous profitability gains.

Performance Dashboard for Operations



- Operators better understand their operation patterns
- Operators are motivated to improve operation
- Operators drill down on reasons of low score
- Managers analyze the balance of different objectives
- Managers identify improvement opportunities

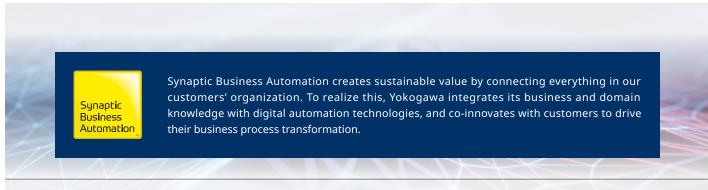




- Senior operators can take agile action based on alert and expert advice
- Managers can benefit from of benchmarking, root cause analysis and expert consulting for continuous SPI improvement

Represented by:

^{*} Requires CENTUM VP R6 or later



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