

Oil and Gas Company Increases Wellhead Production and Uptime with PACSystems Control Solutions

RESULTS

- Increased gas wellhead production by 13%
- Total cost savings of \$3M per wellhead
- Reduced implementation time due to user friendly configuration

APPLICATION

Wellhead monitoring.

CUSTOMER

An oil and gas group with operations that include geological exploration, field development, oil and gas production, purchasing, and refining and selling crude oil and oil products.

CHALLENGE

An oil and gas company in a region where the government was limiting drilling was experiencing a significant increase in demand. It needed to rapidly increase its output of production without being able to drill new wells. Its initial goal was to increase production from 20 wellheads, however the company knew that it would need to scale its solution to as many as 200 wellheads. In order to meet market demands, the company valued speed and production efficiency to help reduce installation time and cost.

SOLUTION

Having selected Emerson as its chosen provider over the previous few years, the company contacted Emerson's local channel partner to help increase its production from its existing wellheads. The team employed QuickPanel+™ and PACSystems™ RSTi-EP as a simple automation solution that was scalable across all 20 wellheads. Plus, this scalability could be applied to the additional wellheads.

QuickPanel+ was chosen for its unique ability to provide the operator interface and controller in one device. Since limited space is available in the field, the small footprint as well as the durability of QuickPanel+ made it easy to install, flexible to configure and allowed for high redundancy offerings in the future.

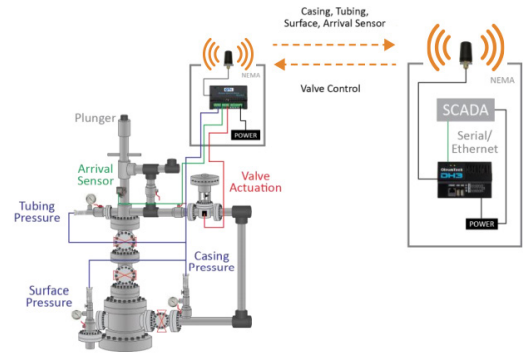


Emerson's PACSystems control solutions allowed openness and flexibility enabling the company to seamlessly integrate more wells directly to the connecting pipeline grid with existing architecture.

PACSystems RSTi-EP was chosen for the multi-point wireless I/O systems that better handle I/O distribution across the various locations, providing high scalability and flexibility in communication using standard protocols or raw signals. Because the wellheads had the challenge of inadequate external power, the company preferred the fast data exchange rate via low power transmitters that the Emerson solution offered.

Within a year of using the Emerson solution, the production output increased significantly with an overall reduction in total cost of ownership. A superior and robust solution led to reduced unplanned downtime, lower maintenance and simplified spares inventory management.

Ultimately, automating each wellhead with a QuickPanel+ and PACSystems RSTi-EP led to a 13% production increase amounting to \$3M annually.



RESOURCES

PACSystems

<https://www.Emerson.com/PACSystems>

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