

WHEN TIME EQUALS MONEY

An aerial night view of a large industrial refinery. The scene is illuminated by numerous lights, creating a complex network of structures, pipes, and storage tanks. A prominent feature is a tall, cylindrical distillation column on the right side, topped with a glowing red light. The background shows a city skyline under a twilight sky.

Integrating SmartLine® with Experion® enables OMV Petrom – Petrobrazil Refinery to increase overall homogeneity and stability of their system

Case Study

Honeywell

SUMMARY

OMV Petrom – the largest energy company in the South-East Europe and Honeywell, the trusted partner for many decades. During the Turnaround (TAR) in 2018, Petrobrazi Refinery needed to modernize its field instrumentation, while reducing operational costs.

As the refinery, had already deployed the Honeywell Experion® platform, SmartLine transmitters were the logical choice to provide greater stability for Petrobrazi Refinery. The overall upgrade enabled Petrobrazi Refinery to push the time between revisions from two to four years, which lead to substantial cost savings for Petrobrazi.

BACKGROUND

Historically, Petrobrazi Refinery is Europe's first refinery that has been refurbished with Honeywell systems: the first Distributed Control System (DCS) in Europe was installed here, back in the 1970s. Over time, the

entire refinery has been upgraded to Honeywell equipment: the Experion 510 platform, the Safety Manager system, and the Fail Safe Controller (FSC) are key components of Petrobrazi operations.

Every two years, Petrobrazi Refinery would go through a complete plant overhaul. The process, called Turnaround or TAR, involves shutting down the plant for a period of 4–6 weeks. In the last two TAR cycles, all Petrobrazi systems were upgraded to the latest Honeywell equipment and solutions.

“SmartLine transmitters are part of an integrated solution built over years – that has one essential ingredient: trust in the quality of the equipment and services delivered by Honeywell.”

**– DR. DIETER TUPPINGER,
SENIOR VICE PRESIDENT PETROBRAZI
SITE MANAGEMENT PETROBRAZI**





CHALLENGE

In 2018, Petrobrazil Refinery management decided to take advantage of the TAR to update its older field instruments that were obsolete. At the same time, they were looking for a way to integrate their field instrumentation with the rest of the solution and improve the stability of their system.

Furthermore, the installation, commissioning, and integration of the instrumentation had to happen during the short period of the TAR window.

SOLUTION

To address the customer's challenges, Honeywell offered SmartLine transmitters that would provide the required accuracies and parameters of process measurement. More importantly, the seamless integration with Experion was a key answer to the customer's concern regarding the stability of its system.

The delivery deadline for the project was critical, but for the Honeywell team, customer satisfaction comes first and foremost – and this approach means that Honeywell is, for OMV Petrom, more than a supplier: it is a trusted partner.

Honeywell not only delivered the transmitters on time but also delivered on the promise of seamless integration with the DCS. The transmitters were

commissioned in Experion using Auto Device Commissioning (ADC) and pre-built device templates. The loop checks on the new transmitters were done much quicker, thanks to ADC. The ability to synchronize the maintenance mode between the DCS and transmitters helped identify the right transmitters to be dealt with for the loops showing issues during commissioning. This feature would also be helpful throughout the plant operation to ensure that a transmitter is truly out of service before any maintenance activity is performed on it, thereby avoiding any costly mistakes that may lead, in the worst-case scenario, to emergency shutdowns.

As demonstrated during the TAR, the holistic approach of SmartLine – Experion integration enables control and instrumentation departments to collaborate on operational improvements. Replaceable modular components allow individual transmitter parts to be replaced in the field without a line break. This reduces maintenance costs and increases process uptime. Not to mention that the integrated support contract makes assistance uncomplicated.

Over the last two years, the DCS system at Petrobrazil Refinery has been very stable, providing reliable measurements and control and thus delivering to the expectations of OMV Petrom. The

addition of the SmartLine transmitters has provided increased system stability and coherence. For an oil refinery, each day during a TAR revision may involve losses of millions of euros – therefore, this improvement implies substantial cost benefits to OMV Petrom.

Integrating SmartLine transmitters with the Experion® DCS enabled OMV Petrom – Petrobrazil Refinery to improve system reliability, performance, and monitoring, while cutting costs. SmartLine transmitters are part of an integrated solution built over decades – that has one essential ingredient: trust in the quality of the equipment and services delivered by Honeywell.

BUSINESS BENEFITS

- Improved system reliability, performance, and monitoring, while cutting costs
- Seamless integration of field instruments into the Honeywell Experion DCS
- The overall upgrade allowed OMV Petrom to increase time between TAR revisions at their Petrobrazil facility.

For More Information

To learn more, visit the SmartLine website at www.hwll.co/SmartLine, contact the Honeywell account manager in your region, or write to us at hpsmarketing@honeywell.com. SmartLine Application Validation Tool: www.config.honeywellsmartline.com

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