

LyondellBasell moves toward reliability centered maintenance with Prometheus solutions

Company

- Name: LyondellBasell Industries
- Headquarters: Rotterdam, NL
- Industry: Chemicals
- Website: lyondellbasell.com

Challenges and Opportunities

- Improvement project to move towards a reliability centered maintenance strategy
- Wanted to increase time on tools by improving planning and scheduling

Results

- Saved 1.8 million dollars per year at one site
- Increased time on tools by 66%
- Improved permitting and kitting and staging
- Reduced travel and waiting time

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About LyondellBasell Industries

LyondellBasell is the one of the world's largest olefin, polyolefin, chemical, and refining companies. It is the global leader in polyolefin technology and production, and is a pioneer in chemical and fuel research and development. LyondellBasell operates 58 plants in 18 countries and employs more than 14,000 people worldwide.

Challenges

LyondellBasell embarked on a project to evaluate their maintenance effectiveness and to move to a reliability centered maintenance strategy. Their goal was to monitor, assess, predict and generally understand the working of their physical assets and to create a cost-effective maintenance strategy to address dominant causes of equipment failure.

Planning and scheduling is the most integral function of an enterprise asset management organization, and because of their limited processes, LyondellBasell found that they were only able to achieve 30% time on tools for their technicians. Poor planning and scheduling influenced many factors, like **permitting, travel, waiting on other craftsmen to finish, obtaining the correct materials, and the efficiency of processes.**

Solution

LyondellBasell developed a set of criteria to look for in a solution that would help them move towards reliability centered maintenance. They wanted a solution that would improve the visibility of planning and scheduling, protect and enhance data integrity, improve synchronization of maintenance planning for reduced impact on production, reduce the working capital and opportunity cost associated with spare parts, and standardize work processes across all sites and regions. In addition, LyondellBasell wanted a solution that eliminated the need for middleware, enabled time savings through ease of use, and integrated KPIs into LyondellBasell's ERP system.

LyondellBasell chose Prometheus as the solution that met all of its requirements.

Results

Prometheus enabled effective planning and scheduling to reduce work barriers and increase time on tools to 50%. This improvement translated to savings of 1.8 million dollars per year at one site. Prometheus enabled these gains through improvements in permitting, waiting on other tradesmen, kitting and staging, and travel reduction.

- Prometheus Scheduler's graphical interface allows operations to see the maintenance schedule in advance, so they now know which equipment to prepare the night before instead of just working up until maintenance arrives to perform repairs.
- LyondellBasell's ability to schedule by the hour with Scheduler provided the coordination required to assemble various crafts when required, eliminating extended periods of waiting.
- Schedule visibility allows tradesmen to ensure that material is kitted, staged, and delivered before work is scheduled to be completed.
- Travel has been reduced by using Prometheus to correctly identify needed tools and materials prior to starting a job.

About Prometheus Group

Prometheus Group is a leading global provider of comprehensive and intuitive enterprise asset management software solutions that work within ERP systems and span the full work management life cycle for both maintenance and operations. Developed jointly with end users, Prometheus software enhances the customer experience for planning, scheduling and executing work for both routine maintenance and shutdowns and turnarounds, all while protecting the workforce with safety solutions and electronic permit to work. Our straight forward functionality, graphical visualization, and simple processes enable customers to increase productivity, reduce costs, and improve reporting. For more information, please visit www.prometheusgroup.com.