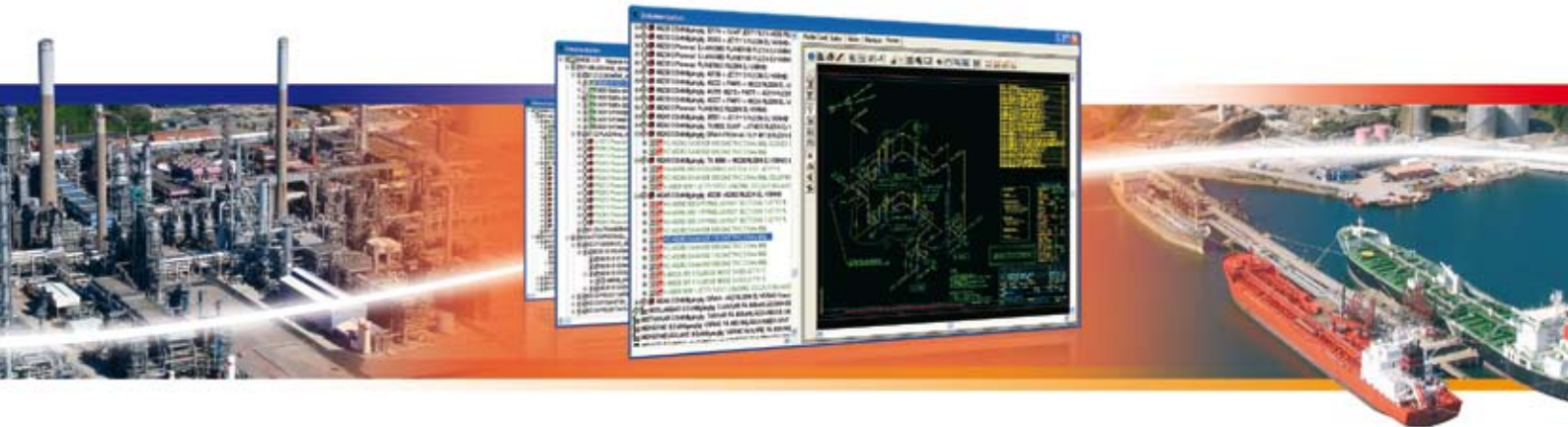


# Preem Petroleum

Enhances safety, quality and accessibility of data and documents with ENOVIA SmarTeam



## Overview



### ■ Challenge

*Preem needed to manage the large quantities of product data generated throughout the life of a refinery plant*

### ■ Solution

*Preem adopted ENOVIA SmarTeam to manage the voluminous design data and technical documentation for the equipment in its Lysekil refinery*

### ■ Benefits

*By providing fast and easy access to relevant information, ENOVIA SmarTeam has considerably enhanced the safety, quality and accessibility of data and documents*



“It’s important to follow the evolution of a plant over a long period of time and ENOVIA SmarTeam is flexible enough to adapt over the years as the needs of the plant evolve.”

Lars-Martin Arendal  
CAD System/Design Engineer  
Preem Petroleum

### Largest oil refinery company in Sweden

Preem Petroleum AB is the largest oil company in Sweden. It accounts for 80% of Swedish refinery capacity and 30% of Nordic refinery capacity. In total, over 17 million tons of crude are refined each year, making Preem the biggest refiner in the Nordic region. The company has 1400 employees and sales in 2006 of SEK 68 billion (US\$11.3 billion). Preem owns two refineries - PreemRaff Lysekil and PreemRaff Gothenburg, which are among the most modern in Europe.

Strong demand for refined products compels companies like Preem to produce fuel at an accelerated pace in a cost effective way. At the same time, environmental regulations require cleaner, more efficient refining methods, forcing refining companies to improve their processes for optimized plant output during their 30 to 40 year life span.

### Long life span requires robust data management capabilities

At the PreemRaff Lysekil refinery, engineers needed to replace the company’s obsolete PDM system with a more robust solution that could keep track of all equipment-related data and documentation. The new system was to become the long-term library for equipment designs, where engineers could find relevant drawings for many years to come. Refineries have long life spans and Preem wanted a system from a well-established company that would be actively supported long into the future. “It’s important to follow the evolution of a plant over a long period of time, and ENOVIA SmarTeam is flexible enough to adapt over the years as the needs of the plant evolve,” says Lars-Martin Arendal, CAD System/Design Engineer, Preem Petroleum.



## Flexible plant data management with ENOVIA SmarTeam

To manage data and product documentation, Preem chose Dassault Systèmes (DS) ENOVIA SmarTeam. "Among the four candidates we benchmarked, we found ENOVIA SmarTeam to be more graphic, more visual," says Arendal. Preem was also impressed by the flexibility of ENOVIA SmarTeam. Preem customized its solution to suit the specific needs of the refinery business. "For document numbering, we have a specific numbering system that an out-of-the-box system cannot natively manage," says Arendal. "With ENOVIA SmarTeam, we made these changes with no problem. ENOVIA SmarTeam has great flexibility that enables users to easily tailor it to the needs of their sector. Plus, additional customizations can be done over the lifetime of a project to meet dynamic changes in methodology."

As the primary application for refinery technical documentation management, ENOVIA SmarTeam serves as the master register of functions and equipment. Thanks to ENOVIA SmarTeam's vault functionality protecting approved files, document safety is ensured. Preem uses ENOVIA SmarTeam to manage revisions to equipment designs, ensuring that the correct parts are used for

repairs and thereby ensuring that the refinery is correctly maintained over time. "We have considerably enhanced the safety and quality of our data and documents thanks to ENOVIA SmarTeam," says Arendal.

## Role-based workflow management

In the near future, Preem will expand the project by adopting ENOVIA SmarTeam for workflow management to check and approve new drawings. The company will map its internal workflows in ENOVIA SmarTeam, using its role-based approach, to enable standardized automatic approval process management. It will also handle drawing check-in and check-out. By activating a formalized, documented workflow that is managed by the system, Preem will avoid human error and optimize all processes in accordance with standard procedures; moreover, once all processes are documented, they can be measured and analyzed to enable continuous improvement.

Following the successful deployment of ENOVIA SmarTeam at the Lysekil refinery, Preem management at the Gothenburg refinery is considering implementing ENOVIA SmarTeam as well, which would enable the two plants to share common parts, processes and related information thus benefiting from economies of scale.

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Lars-Martin Arendal  
CAD System/Design Engineer  
Preem Petroleum



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