



Pream's Refinery  
in Lysekil, Sweden.



Lars-Martin Arendal

Pream adopted ENOVIA SmartTeam to manage the voluminous design data and technical documentation for the equipment in its Lysekil refinery. ENOVIA SmartTeam enhanced safety, quality and accessibility of data and documents.

**S**trong demand for refined products compels companies like Pream 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 Pream Raff 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 Pream wanted a system from a well-established company that would provide it with support long into the future. "It's important to follow the evolution of a plant over a long period of time, and ENOVIA SmartTeam is flexible enough to adapt over the years as the needs of the plant evolve," says Lars-Martin Arendal, CAD System/Design Engineer, Pream.

#### FLEXIBLE PLANT DATA MANAGEMENT WITH ENOVIA SMARTTEAM

To manage data and product documentation, Pream chose Dassault Systèmes' ENOVIA SmartTeam. "Among the four candidates we benchmarked, we found ENOVIA SmartTeam to be more graphic, more visual," says Arendal. Pream was also impressed by the flexibility of ENOVIA SmartTeam. Pream 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 SmartTeam, we made these changes with no problem. ENOVIA SmartTeam 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 changes in methodology."

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



In practice



## ENOVIA Refined Pream

By Dora Laine

**ENOVIA SmartTeam is flexible enough to adapt over the years as the needs of the plant evolve.**

"We have considerably enhanced the safety and quality of our data and documents thanks to ENOVIA SmartTeam," says Arendal.

#### ROLE-BASED WORKFLOW MANAGEMENT

In the near future, Pream will expand its implementation by adopting ENOVIA SmartTeam for workflow management to check and approve new drawings. The company will map its internal workflows in ENOVIA SmartTeam, 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, Pream will avoid human error and optimize all processes in

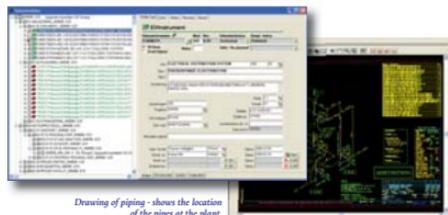
accordance with standard procedures. Moreover, once all processes are documented, they can be measured and analyzed to enable continuous improvement. Following the successful deployment of ENOVIA SmartTeam at the Lysekil refinery, Pream management at the Gothenburg refinery is considering implementing ENOVIA SmartTeam 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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#### About Pream

Pream 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 oil are refined each year, making Pream the biggest refiner in the Nordic region. Over 60% of the production is exported, making Pream one of the largest exporters in Sweden. The company has 1400 employees and sales in 2006 of SEK 68 billion (US\$11.3 billion). Pream owns two refineries - PreamRaff Lysekil and PreamRaff Gothenburg, which are among the most modern in Europe.  
[www.pream.se](http://www.pream.se)

Project view over the plant structure, drawings and documents, and meta data for a specific document.



Drawing of piping - shows the location of the pipes at the plant.

#### About Technia

Technia is one of the leading suppliers of Product Lifecycle Management Solutions for creating and managing product information throughout the entire product lifecycle. Technia, with more than 110 employees, is a strategic partner of more than 200 companies. It has offices in Stockholm, Gothenburg, Helsinki and Oslo. Technia's customers include: Ericsson, Ecotocq, ESAB, Danaher Motion, GE Healthcare, Manrolf, Mitsui Paper, Mölnlycke Health Care, Nokia, Parkin Elmar LifeSciences, Prosimon, Scania, Sectra Mamea, and Sony Ericsson.  
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