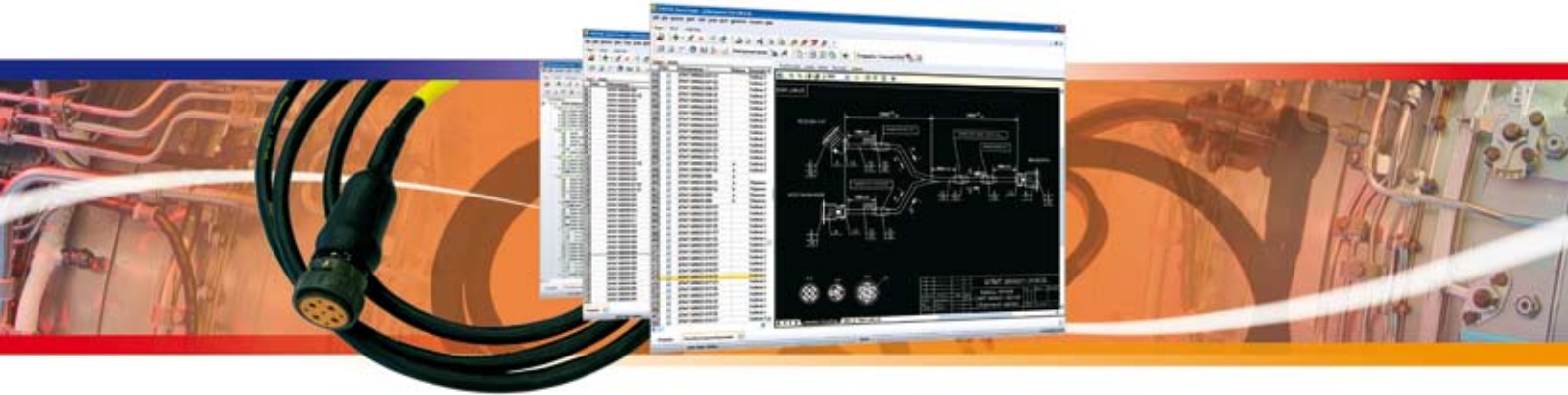


Bee Pitron Electric

Reducing development time by 30% with ENOVIA SmarTeam



Overview

■ Challenge

Bee Pitron Electric needed a revolutionary approach to electrical network design that would allow concurrent engineering between its new product development teams

■ Solution

The company developed its solution based on ENOVIA SmarTeam

■ Benefits

Thanks to the easily-accessed common database in ENOVIA SmarTeam, Bee Pitron Electric has seen productivity increase by 30%

“With ENOVIA SmarTeam we have practically eliminated the risk of data loss when transferring information from one product lifecycle stage to another while saving manufacturing time and improving product quality.”

V.I. Zhigulskikh
Deputy Director General, Production and Development
Bee Pitron Electric



Major cable network manufacturer

Established in 2003, Russia's Bee Pitron Electric develops and produces cable networks such as electrical and optical connections, power lines, analogue and digital data transfer lines, and SHF cable assemblies. Bee Pitron Electric's customers include leading manufacturers of aerospace and railway equipment, military defense systems, and products for the oil and gas sector.

Faced with a growing backlog in orders while simultaneously expanding its product line, Bee Pitron Electric needed to improve the efficiency of its design process and operations planning. As with other electrical engineering firms, Bee Pitron Electric also required a common and comprehensive set of design documentation to federate information from the different project divisions. Finally, the company realized that it would save time if it eliminated paper documents and increased coordination between design teams.

Integrated solution based on ENOVIA SmarTeam

Bee Pitron Electric decided to introduce a revolutionary approach to designing electrical networks that ensures real-time interaction among teams. It also ensures that relevant product data is accurate and up-to-date at every step of the process and that everyone has access to the project information they need.

Bee Pitron Electric conducted a comprehensive analysis of many PDM/PLM systems on the market and chose Dassault Systèmes' CATIA and ENOVIA SmarTeam as the foundation for its integrated solution, in part because of the solutions' robustness and reliability.

The company developed a solution based on the ENOVIA SmarTeam platform that integrates a number of systems used together to manage the entire electrical design process. “ENOVIA SmarTeam is the core of our solution,” said V.I. Zhigulskikh,



deputy director general for Production and Development, Bee Pitron Electric. "It guarantees a common environment for all users with a common interface and one database, which includes all the information we produce when we manufacture our products. "Having a common environment ensures continuity when using the information that is generated at each stage of a product's lifecycle, whether it be within the same project or for better overall leveraging of corporate IP."

Each Bee Pitron Electric project involves many users that work simultaneously on a design. This real-time working environment enables each designer to immediately review and act on any changes made by other designers. "With ENOVIA SmarTeam, we have a robust system that manages revisions, compares documents, and tracks the product development history, enabling us to go back, at any time, to a previous version of a project's documentation," added Zhigulskikh.

Automating time-consuming procedures

Bee Pitron Electric uses ENOVIA SmarTeam Editor to access all corporate data internally to review and edit information. The company uses ENOVIA SmarTeam Workflow for production control, based on workflow schedules that define the work sequences for any business process. ENOVIA SmarTeam Workflow defines tasks for project participants and manages their execution.

Bee Pitron Electric uses ENOVIA SmarTeam Program Management to easily integrate product data and project resource information, such as employee workload, into an MS Project application in order to manage project progress. "With ENOVIA SmarTeam, we have a solution that automates our most time-consuming project procedures, thereby minimizing the risk of repeated design errors," said Zhigulskikh. "We have practically eliminated the risk of data loss when transferring information from one product lifecycle stage to another while saving manufacturing time and improving product quality."

30% increase in productivity

With ENOVIA SmarTeam, Bee Pitron Electric has successfully implemented a common information system that links all the systems and processes involved in its cable network development process. Company managers noted that transferring the operations of the entire electrical department into this system drastically increased the speed at which information, at all stages of the product's lifecycle, can be processed, resulting in a 30% productivity increase. The resulting database, which includes information from previous projects, significantly simplifies cost-analysis, accelerating the process of evaluating the cost-effectiveness of future projects.

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