IBM

Capital Project Collaboration

Image courtesy Hydro-Québec

Highlights

- **Single, integrated environment for engineering and program information management**

- **Packaged solutions for project governance, sourcing, IP management and collaboration**

- **Project dashboards and Key Performance Indicators (KPIs)**

- **Technical document and complex content management**

- **Optimization of working processes for Health Safety & Environment concerns**

- **Collaboration environment for owner/operators, EPCs, suppliers and consultants**

- **Integrates with asset management, ERP and scheduling**

Energy is an industry currently challenged with reinventing itself with the same speed and tenacity with which it has historically tackled exploration and discovery. From oil and gas and nuclear to hydro and wind, every sector is facing unprecedented economic and project pressures and information access and sharing challenges.

The increased complexity and globalization of today's energy industry drives high risk in capital projects and significant impact on ROI due to unforeseen events. Planning and engineering are highly decentralized across widely distributed organizations, and new projects are faced with challenging environmental constraints, stringent regulatory and policy compliance requirements, security and safety concerns and unmatched financial market and consumer expectations.

Productivity is a key driver for business success, so production down-time must be minimized and engineering cycle times must be streamlined. But despite the need for speed and efficiency, mergers and acquisitions have created mix-and-match IT systems, complicating the management of large projects and creating challenges in retaining and capitalizing on organizational knowledge, experience and best practices, particularly as the workforce ages, projects are turned over by EPCs, or owner/operators change.

Project teams are hindered by fragmented information, excessive time spent searching for information and the lack of a high-level view of work-in-progress. Poor integration of engineering and equipment supplier information with existing MRO systems is often exacerbated by difficulties in replacing legacy data management systems and consolidating an assortment of IT tools.

To meet these challenges, energy industry companies require a single source for managing project records as well as a collaborative environment with configurable levels of access to IP based on role and lifecycle. Capital project collaboration tools that provide full PDM support for engineering design, technical documents, auditing and project records tracking and integration with EAM and enterprise resource planning (ERP) systems give companies the tools they need to gain advantage in today's competitive marketplace.

IBM PLM solutions, including ENOVIA from Dassault Systèmes, give energy companies the tools they need to manage and execute complex engineering and construction projects over their entire lifecycle for new plants or revamping of existing facilities. ENOVIA also handles the management of technical information assets during operation and maintenance, improves technical collaboration with asset related stakeholders and provides project management capabilities for customer opportunities, requirements, details and proposals. And ENOVIA is the perfect solution for IP classification and reuse as well as IP work-in-progress through release.

With ENOVIA, energy companies are well positioned to stay a step ahead of their competition with an extended enterprise collaboration infrastructure for design and engineering that perfectly enables technical engineering and construction data management, structure transfer of knowledge for operation and maintenance, a common user interface for work-in-process and CAD data management, customizable team workspaces, revision and version controls and release processes for change management.

With IBM PLM solutions, energy companies are perfectly positioned for best-in-class design data and BOM management, change management and review, as well as supply chain, document, project and issue management.

IBM PLM gives energy companies the high level project dashboards they need to keep track of what's important and a state of the art environment to promote virtual team collaboration from any location worldwide, capture knowledge and facilitate information sharing, accelerate and organize communication and establish a secure, central repository for all collaborative activities.

When you choose IBM PLM, you get the full value of the IBM brand: trust, quality, experience, financial stability, global reach and a proven code of conduct. As your PLM partner, IBM offers deep industry knowledge, experience as a world-class manufacturer, strength in R&D, a broad range of solution offerings and a long-standing commitment to PLM.

With state of the art resources such as technical proof of concepts, IBM Global Business and Laboratory Services and third-party software form leading IBM Business Partners, IBM PLM can help you transform your business. With IBM PLM solutions, capturing best practices, educating and training your workforce and integrating your enterprise is not only possible - *it's real*.

Choose IBM—the PLM leader

IBM's PLM expertise and leadership continues to be valued by our clients. Today, we are so much more than a PLM application software vendor.

We have expanded our scope to include the integration capabilities that organizations need to manage the complexities of the entire value chain. IBM is the only company that can deliver the complete PLM solution. Our unmatched combination of consulting, applications, middleware, hardware and services, coupled with a broad knowledge of industries and IT solutions, equips us to build complete PLM solutions to fit every business—large and small. This is the IBM difference.

When you choose IBM as your PLM partner, you are choosing:

A PLM leader
IBM leads the development of PLM. Our value proposition is built on a foundation of decades of world-class IBM technology expertise, supported by thousands of IBM engineers and developers in 40 different countries. This expertise is valued across the globe, and has enabled us to develop links with business partners that continue to evolve and improve the value we can add for our clients.

An unrivalled commitment
Our unmatched annual investment in Research & Development—the key to innovation—stands at approximately $5.5 billion. This is testament to our commitment to helping your organization succeed in a world of change. In 2006, IBM innovators contributed to 3,261 patents awarded to IBM—an average of 10 patents a day. United States Patent and Trademark Office statistics show thatIBM has generated more patents than any other company for 14 consecutive years.

A world-class manufacturer
IBM possesses deep industry experience and knowledge of the challenges you face. As a primary user of PLM, we understand your business processes and have the support of a global team of engineers to help tackle your real world issues—and keep you ahead of your competition.

Breadth of offerings
We can impartially recommend PLM offerings to suit your organization, and employ and integrate the solution with your extended enterprise.

For more information contact your IBM Representative,
IBM Business Partner, or visit the IBM PLM Web site at:

ibm.com/software/plm