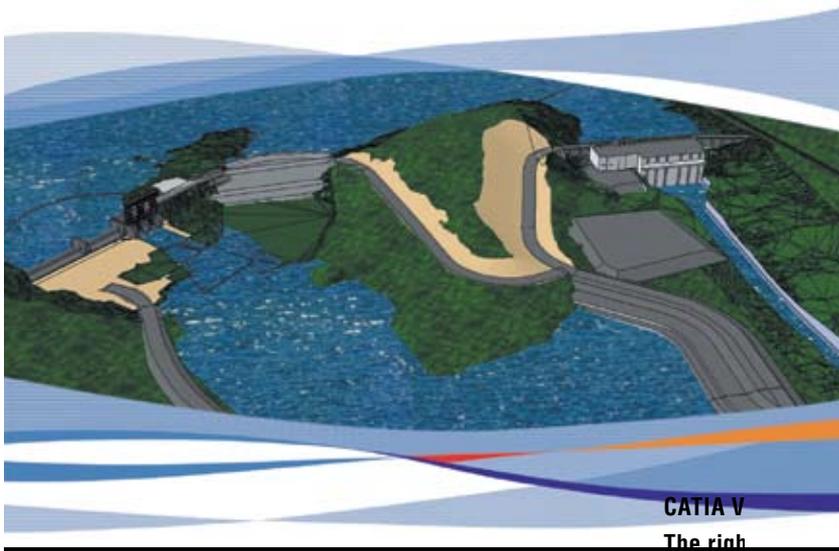


# IBM PLM helps Hydro-Québec revolutionise the development of hydroelectric projects



*“With CATIA V5 and SMARTEAM, Hydro-Québec will be able to collaborate more effectively with its partners and expedite the resolution of problems that can occur during the project development stage.”*

Jean-Paul Rigg, Director, Generation engineering, Equipment division, Hydro-Québec

Overview	CATIA V5 The right PLM solution
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■ **The Challenge**

*Hydro-Québec needed to shorten the design time of future power plants, meet quality, design and development goals, and improve cost estimation*

■ **The Solution**

*IBM delivered a Product Lifecycle Management (PLM) solution comprising CATIA V5, SMARTEAM and digital mock up (DMU) products developed by Dassault Systèmes*

■ **The Benefits**

- Supplier and partner collaboration
- Multidisciplinary data integration
- Reduced design risk through DMU and review
- Design validation on 3D models of facilities
- Faster project cycle times
- Operational efficiency.

**Challenging the future**

Faced with growing energy demands, Hydro-Québec needed to shorten the design and construction time of hydroelectric construction projects. Working with IBM and Dassault Systèmes, the company opted for a PLM strategy to improve collaboration, reduce design risk and shorten construction time.

## **CATIA V5 and SMARTEAM:**

### **The right approach**

CATIA V5 and SMARTEAM are IBM PLM solutions developed by Dassault Systèmes.

CATIA V5 enables 3D collaborative product design, while SMARTEAM supports product data and lifecycle management. The DMU products found in CATIA V5 enable collaborative product visualisation and review. IBM delivered the integrated PLM solution for the pilot project running on IBM IntelliStation workstations and IBM **@server** xSeries servers. Hydro-Québec's Equipment Division is responsible for deployment of the PLM solutions.

### **Collaboration for minimum risk**

The IBM PLM solution has helped Hydro-Québec to achieve supplier and engineer collaboration. Problem resolution is now faster, while DMU and collaborative review capabilities help reduce risk at the critical project development stage.

CATIA V5 helps Hydro-Québec to better integrate data from multiple disciplines – including mechanical equipment, fluid and electrical systems, and concrete and steel structures – in a single environment. SMARTEAM provides a common database to store that multi-disciplinary information inside a lifecycle management system.

*“CATIA V5 has already allowed us to reduce the design time for substations by several weeks.”*

Serge Lapalme, General manager, Expertise, Equipment division, Hydro-Québec

Such integrated data represents a major benefit to the operators. Upon completion, all plant details and specifications data are linked together and can be transferred to the operation maintenance staff for easier plant maintenance.

### **Further Information**

For more information, contact your IBM Marketing Representative, IBM Business Partner or visit the IBM PLM Web site at: **ibm.com/solutions/plm**.

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