

CASE STUDY

COMPANY PROFILE

- Odebrecht
- EPC
- Brazil
- <http://www.odebrecht.com.br/>
- Product Purchased - Citadon ProjectNet

ODEBRECHT

THE COMPANY

Odebrecht's engineering and construction services include heavy construction specialized technology projects, electromechanical structures, and offshore drilling services. Odebrecht, known internationally for over 50 years, has nearly 200 subsidiaries and affiliates working in 14 countries. Odebrecht's chemical divisions produce polyethylene and other thermoplastics. Toll road and bridge operations, energy transmission, and sanitation projects make up the company's infrastructure and public services division.

THE CHALLENGE

Odebrecht was contracted by Tractebel, one of the world's largest independent power producers, to build a new 450 MW, R\$640 million hydroelectric power station in the Tocantins Basin. To handle the project, a consortium of four companies was created; two Brazilian construction companies - Odebrecht and Andrade Gutierrez, and two German companies - Voith and Siemens. Odebrecht was the lead builder on the project, while Voith and Siemens provided the equipment and its assembly.

The three-year project required the coordination of over 200 project-related people from various organizations located around the globe. More than 2,000 documents per month, including e-mails, drawings, schedules, reports, notes, contracts and legal documents had to be shared, stored and managed. The project required strict management of deadlines in order to avoid contract penalties relating to work delays.

It was also necessary to execute a smooth transition among all of the technologies in place at the different companies involved in the project. The integration of disparate technologies has become a standard challenge associated with cooperative projects as more and more companies use multiple technologies and tools to assist in the ability to work on global projects. The project required access to data created by multiple programs, including AutoCAD, MicroStation, Microsoft Word, Microsoft Excel, Lotus, Primavera P3, and Adobe Acrobat.

THE RESULTS

Increased Productivity

By using Citadon, project team members were able to find and access documents more quickly and to track status of documents and communications from any location, 24 hours a day. And because Citadon CW allows project team members to access and view any kind of document, they did not have to learn how to use the various software applications in which the documents were created.

Reduced Costs

Odebrecht calculated that they saved over \$US 5,000 per month in reduced document transmittal and printing costs alone. Other savings included reduced software acquisition costs to support viewing of the various document types used on the project.

Accelerated Project

Completion delays typically associated with document access, review and dissemination were reduced dramatically. Because contractors on site had the most current and accurate information available to them, rework was kept to a minimum.

The Bottom Line

The project was completed 6 months ahead of schedule.

THE SOLUTION

Considering the challenges above, Odebrecht determined that the best solution would be to implement a Web-based project collaboration system. The requirements of the system included:

- Project team members should be able to view documents without requiring them to purchase the software applications that the various documents were created in
- The system had to be easy to use, and should not require a support and maintenance team

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- The system had to have robust document and process management system for storing, viewing, tracking and routing of documents, requests for information and other project communications
- The system must be accessible from any computer with Internet access anywhere in the world
- Odebrecht evaluated a number of project collaboration systems and selected Citadon based on its superior performance, user-friendly interface, high speed, ease of use in accessing data and documents, report tracking and task management.

The use of ProjectNet made it possible to control the project from anywhere around the world, at any time. Specific capabilities that brought to the project team included:

- Secure access control at the folder, document and form (construction administration forms) level ensured that users could only view what they were given permission to
- Microsoft Outlook style interface that allowed users to leverage their existing knowledge of a simple and intuitive interface
- Organization of documents that matched the specific work processes and document naming conventions of the project
- Viewing, downloading, printing and plotting through the Internet of over 250 document types provided fast and easy access to project documents without the need for the applications the documents were created in
- A complete audit trail that captured the actions of users at every level - file actions such as viewing and downloads were tracked, as well as when somebody responded to a Request for Information (RFI)
- Management reports that allowed the project team to track use throughout the system, the number of submittals outstanding, document uploads and downloads, etc.

ABOUT CITADON

Citadon is an award-winning provider of Web-based collaboration and Business Process Management solutions for project-oriented organizations. Citadon provides an on demand solution that enables customers and their constituents to seamlessly share and manage a wide variety of document types, automate and propagate complex business processes, collaborate and communicate without barriers while providing a mechanism for capturing and leveraging knowledge. Since Citadon hosts these applications, users can immediately begin to take advantage of software that can reduce both financial and legal risk, improve profitability, enforce accountability and add predictability to global projects.

More than 60,000 subscribers in over 60 countries on projects with a market value in excess of \$130 billion currently access Citadon hosted applications. Current Citadon customers include Shell Oil Products, GM, Bechtel Group, GE, Chicago Transit Authority, Alcoa, ICA Fluor, Transport for London and Novo Nordisk Engineering. More information is available at www.citadon.com.

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