

Case Study



Sustainability Reporting System

Abstract

Sustainability Reporting System has helped client with extensive reporting capabilities that facilitate in generating custom reports designed to meet various requirements.

Sustainability Reporting System

Infosys Limited (Infosys) has developed and implemented Sustainability Reporting System (also termed as Environment, Health, Safety & Social Responsibility system (EHS & SR System)) on co-creation model for a leading global independent energy company with revenue exceeding \$29 billion.

Client Profile

Client is a leading global independent energy company, with revenues exceeding \$29 billion. They are organized as E&P business focusing on the upstream activities with operations in and outside of the US and as R&M business focused on the downstream value chain of the Oil and Gas business.

Project Overview

Previous System

The previous EHS & SR system was a custom-built application used for tracking EHS & SR metrics and specific incidents arising out of refining, exploration and production activities. The system housed Environmental, Health, Safety and Social Responsibility data and was predominantly used for reporting to internal and external stakeholders. The previous system had shortcomings in terms of features, performance, extensibility, scalability and maintainability that were impeding reporting requirements and future development.

Present System

The EHS & SR system supports extensive reporting capabilities to help client management generate custom reports designed to meet various requirements.

Objectives

The business objectives of the present EHS & SR system are as follows -

- Streamlined business processes
- Extensibility and Maintainability to support future enhancements
- Support dynamic reporting capabilities to generate ad hoc reports with charting capabilities for graphical representation.
- Data is fully auditable and all update history is saved
- Leverage the latest advancements in technology

The technical objectives for the present EHS & SR system are as follows -

- Scalable enough to meet the future business objectives of the EHS system
- Scalable to support around 10 - 15 concurrent users
- Support high reliability
- Support nightly loads from:
 - E & P Incident data management system
 - Retail Safety Incident data management system
 - Social Responsibility spend system
- Support on-demand loads of Greenhouse Gas data from Excel spreadsheets
- Support Internet Explorer versions 6.0 and above
- User Interface Level utilizes ASPNET and will display the reports using SQL Server 2005 Reporting Services
- SQL Server application database

Project Challenges

The major challenge in the project was usage of Use of Component based Scalable Logical Architecture Framework (CSLA Framework)

Infosys Role

The role of Infosys in the development and implementation of EHS & SR system for the client as follows -

- Requirements Gathering/Analysis
- Design
- Development
- Warranty support
- Enhancements roll out

Value Addition to the Client

Activities	Benefits
Low onsite ratio 1:8	Reduced cost
CSLA based design	Increased flexibility of deployment and scalability

Project Details

Project Type	Development
Domain	Environment Health and Safety & Social Responsibility
Project Duration	12 Months
Locations	New Jersey, Bangalore
Effort	46 Person Months
Peak strength	9
Technology	NET 3.5, SQL Server 2005, SQL Server Reporting Services, CSLA Framework



For more information, contact askus@infosys.com

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