

A leading oil exploration and production organisation

Centralised and efficient production operation management (Ecuador)



Key Figures

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Customer Profile

- An oil exploration organisation focused on area sedimentary basins and hydrocarbon deposits
- Main operations are in eastern South America
- Operates hydrocarbon fields and transports oil and gas to major storage sites
- Produces more than 60 million barrels of crude oil per year

Customer objectives

- The company wanted to optimise its crude oil extraction, transportation, and production processes.
- It sought to improve the cost efficiency and reliability of its electrical power generation and distribution processes that supported these activities.
- It needed to implement security enhancements and control its impact on the operating environment in the Amazon region.

Customer benefits

- Optimised security
- Operational efficiency
- Automated processes
- Expanded production
- Real-time accounting control
- Improved current and future planning

Implementation Methodology

- The client wanted a vendor who could provide a single-face solution for preliminary and detailed engineering, development, implementation and testing, as well as the operational start-up of a complete multi-utility automation system.
- It wanted highly-integrated technologies in a comprehensive solution for efficient management of its electric supply and oil production activities.

Schneider Electric differentiating values VS competitors

- With Schneider Electric's exclusive contractor service, the client gained a turnkey control system to centralise and automate all processes.
- The system is so well integrated that it transfers field data to the client's communications system with 99.99 per cent accuracy.
- Schneider Electric streamlined the project significantly by eliminating the need to work with specialised vendors worldwide.

Solution overview

Schneider Electric managed the installation and interface of the OASyS supervisory control and data acquisition (SCADA) system. It also provided applications for electric substations, generation centres, production wells, and crude oil production stations, including:

- A system to collect well data for real-time analysis and control
- A real-time Distribution Management System for smart electrical network monitoring and operations control
- An automatic generation control system with economy dispatching
- A LMS Tanking Module for accurate custody transfer and real-time tank inventory
- Automation of 35 leased automatic custody transfer units for optimised calibration and generation reports, batch recalculation, and highly-accurate measurements
- An automatic well testing solution for accurate, audited results
- An ArcFM™ Geographic Information System (GIS) for anytime-access to a common assets geodatabase.