

TATA CONSULTANCY SERVICES



EIS Solutions for Energy Sector

Engineering and Industrial Services



Experience certainty. IT Services
Business Solutions
Outsourcing

The increasing global consumption of energy, changing crude prices and strict environmental regulations demand new explorations, enhanced recovery of oil wells, and more investment to improve operational efficiency. To help your enterprise thrive in the midst of these dynamic forces, Tata Consultancy Services' (TCS) EIS Energy Solutions offer you assistance across the complete plant and production process lifecycle. Through cost-efficient and reliable solutions, we enhance operational processes, supporting your need for increased E&P activities and compliance with Health Safety Environmental (HSE) requirements.

Overview

As energy enterprises try to cater to the growing global demand for energy, key challenges draw their attention, asking for immediate resolution. Like in many sectors, here too, scarcity of trained personnel suggests the need for greater reliance on technology and remote monitoring of wells to optimize resources. Moreover, there is also a need to regularize processes to increase return on capital, and adhere to HSE regulations.

TCS partners with you to address these issues and enhance your processes across the entire value chain – from energy sources location to oil field asset management. Our solutions minimize product development time, assist in effective asset management and enable sourcing and manufacturing support from cost effective countries, thereby lowering operational costs.

Why TCS

Leveraging our extensive domain expertise and global talent pool, we offer you apt solutions that positively impact your business. We also bring to the engagement our:

- Global Network Delivery Model™, which enables us to provide you with high-quality and timely solutions and services across the globe.
- Innovation Labs that focus on creating novel offerings to meet industry requirements.
- Solution accelerators that aid in the swift implementation of solutions and help you realize benefits faster.



Our solutions

TCS offers services in complete plant and production process lifecycle. Right from engineering for process plant design, procurement, to plant automation services, enterprise asset management and geo-spatial technology solutions, we bring you services and solutions to streamline and strengthen your processes. These include:

- **Digital Oil Field Solution:** Also known as Smart Field or Intelligent Field, it focuses on the lifecycle of an asset. It adds new measurement points to existing data acquisition systems with a greater emphasis on real time data; thus increasing its RoI. TCS is providing WITSML/ PRODML based solutions to the oil industry for increased collaboration between geographically-dispersed stakeholders.
- **Perfect Plant Solutions:** These integrate SCADA and Machine Data with ERP and BI solutions for effective plant control.
- **Geospatial Technology Solutions:** TCS Team, comprising geoscientists and technical experts, develop and sustain E&P applications in Geological, Geophysical, drilling and completion, production optimization and reservoir management domains which includes E&P data management applications. In addition, TCS provides technical support on the E&P applications to Oil companies located at different Geographies.
- **Product Engineering:** Our engineering team uses cutting edge technologies like CFD analysis to provide you with engineering design and analysis of many components, sub-systems and systems used in exploration.
- **Enterprise Asset Management:** This helps you increase asset reliability and utilization, service reliability, effective management and maintenance of enterprise assets, and facilitates process optimization.

How we help our customers

Increased profitability by streamlining processes for oil and gas major

The customer is wholly owned subsidiary of one of the largest oil and gas major. Manual work flow of business processes and isolated IT applications in the plant were major challenges faced by the customer. TCS formulated the strategy to streamline the processes and analyze the information and material work flow. Our domain experts identified field automation requirements and prepared integrated implementation plan. This resulted in reduction of operation costs, improved capacity utilization and high throughput leading to increased profitability.

Efficient oil-rig management across locations

The customer provides land and platform drilling contract services for exploration and development of oil, gas and geothermal wells. They needed to minimize cost pressures while streamlining their well-site information and data monitoring, reporting well-site data effectively to different locations and operations; and making reports available on time. Our engineers provided field service in Oil Well Field Management across their oil rigs. We are helping the customer develop and sustain applications for Well Site Information Management, server development, streamlining data entry and retrieval, and portal for viewing well site information.

About Tata Consultancy Services (TCS)

Tata Consultancy Services is an IT services, business solutions and outsourcing organization that delivers real results to global businesses, ensuring a level of certainty no other firm can match. TCS offers a consulting-led, integrated portfolio of IT and IT-enabled services delivered through its unique Global Network Delivery Model™ recognized as the benchmark of excellence in software development.

A part of the Tata Group, India's largest industrial conglomerate, TCS has over 100,000 of the world's best trained IT consultants in 50 countries. The company generated consolidated revenues of US \$5.7 billion for fiscal year ended 31 March 2008 and is listed on the National Stock Exchange and Bombay Stock Exchange in India. For more information, visit us at www.tcs.com

To know more about TCS' EIS Energy Solutions, contact corporate.engineering@tcs.com

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