

TATA CONSULTANCY SERVICES



EIS Solutions for Utilities Engineering and Industrial Services



Experience certainty. IT Services
Business Solutions
Outsourcing

Liberalization, increasing energy prices and environmental regulations characterize the utilities industry today. To thrive here, you have to constantly work towards improving the operational efficiency of your processes, and gain better control over assets to meet business and regulatory goals. Tata Consultancy Services' (TCS) EIS Solutions for Utilities enable you to do this. Through our complete and detailed engineering services for the design of water, waste water and power plants, we help you optimize capital expenditure and improve operational efficiencies.

Overview

Like in other industries, in the utilities space too, enterprises need to contain costs and promote efficiencies. As efficient use of energy across the utilities value chain gains priority, organizations are looking at applications and technologies that can help meet this aim. They are striving to create processes that promote better utilization of capital, and gain greater control over their plants and assets. This helps to efficiently manage assets and infrastructure, as well as bring in changes that are essential to meet regulatory compliance.

TCS' EIS Solutions for Utilities fulfills your enterprise's need to have plants and assets which can be monitored, controlled and utilized optimally to reduce operating costs. We help increase operational efficiency while reducing energy and resource consumption. Ensuring higher availability and reliability of assets, we promote profitability and enhanced regulatory compliance. In order to enable transparency in requirement, we also provide smart metering to track energy, gas and water consumption.

Why TCS

TCS collaborates with niche players, accesses and develops a global talent pool to offer reliable engineering solutions. Our ability to bring you process and cost efficiencies is strengthened by the following:

- Delivery excellence. Global Network Delivery Model™ (GNDM™), a collaborative framework of people, processes and infrastructure, makes it possible for us to consistently ensure delivery excellence and operational efficiency.
- Niche service offerings. Strategic Investment Planning System (SIPS), Multi-Service Framework (MSF), Smart metering, etc, aim to provide unique solutions for your specific business problems.
- Increased focus on innovation. Our dedicated Centers of Excellence help us service you with innovative and responsive solutions tailored to meet your specific requirements, while solution accelerators ensure quick realization of outcomes.



Our solutions

TCS leverages its experience in engineering solutions development, to provide comprehensive offerings that are cost effective and reliable. Our following solutions bring you increased profitability with optimum utilization of assets, by aligning operational and tactical tasks with strategic vision.

- **Geo Spatial Technology solutions (GST).** These help you reduce maintenance costs, optimize assets, monitor environmental impacts, automate processes, streamline work procedures, integrate business systems and enable regulatory reporting through dashboards.
- **Control System Integration (CSI).** Our CSI services involve upgrading water, waste water treatment and power plants in terms of hardware, software and processes. It covers design, development and implementation of control systems to cater to the redefined process requirements brought about by environmental regulations.
- **Advanced Process Control (APC).** Our APC solutions coupled with process knowledge help in optimizing water treatment and waste water/ sludge treatment processes, by reducing operational costs while improving efficiency and maintaining quality.
- **Real-Time Systems (RTS).** These solutions for developing data acquisition, real-time control, remote monitoring diagnostic solutions for plants and pipelines, help automate plant operations and enable their remote control.
- **Enterprise Asset Management (EAM).** TCS helps improve operations and enterprise asset management in water, waste water industry and power generation plants. We provide services like business process analysis, solution mapping, product configuration, product customization, system integration with legacy systems, data conversion, testing, go-live and post implementation support in EAM space.
- **Strategic Investment Planning System (SIPS).** The Universal Prioritization System (UPS) was developed to allow various projects to compete for capital on a level playing field. This allows you to choose an optimal combination of initiatives, which deliver the maximum benefits to you, your business, and the environment.

We also provide services in Product Engineering, Plant Design Engineering, Product Lifecycle Management, Embedded Systems, Electromechanical Manufacturing Services and Sourcing Manufacturing Solutions.

How we help our customers

Smooth controls integration for over 600 plants

TCS provided end-to-end control systems integration - covering design, development, implementation and installation - for over 600 water and waste water treatment plants of England's first multi-utility group. Any compromise on quality had severe legal implications. But with the help of our solution they benefited from standardized, automated tools leading to higher re-usability; highly structured project documentation; a strong knowledge base for the future and information infrastructure for an integrated plant and enterprise.

Common solution across processes benefits UK gas distribution major

Following the change in the UK gas distribution business, four players emerged. The new company needed to define new business processes, consolidate and transition all the existing information systems supporting critical front office operations, and replace the existing legacy systems. Working under extremely difficult timelines and a dynamic environment, TCS provided system consolidation, process improvements, a new set of systems configured with the capability to meet changing business requirements, and business improvements from more reliable data.

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 Solutions for Utilities, contact corporate.engineering@tcs.com

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