ENERGY & UTILITY

Our
Business
Knowledge,
Your
Winning
Edge.

L&T Infotech

We provide the winning edge to Energy & Utility clients by enabling them to extract full value from Information Management and IT operations across the entire value chain.

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As individuals and as an organization, you have done your utmost to understand the Chevron Way. You have worked tirelessly to meet our high expectations with a spirit of co-operation and understanding that has further enriched our relationship. This has fuelled our success so far and is the foundation for our success in the future.

-Gary Masada

Then CIO & President IT Company, Chevron

L&T Infotech has been awarded Chevron Best Supplier of the Year 2005 and 2006.

Our Energy & Utility Offerings

In the global world of business, you need a partner which understands your business and customizes technology solutions that make you continually more successful via-a-vis your competition. Meet Larsen & Toubro Infotech Ltd (L&T Infotech), one of the 2009 'Leaders' in the prestigious Global 100 list released by International Association of Outsourcing Professionals (IAOP), and a wholly-owned subsidiary of US $ 9.8 billion Larsen & Toubro, India's largest technology-driven engineering organization.

Our parent company, Larsen & Toubro (L&T) , has several decades of rich experience across the entire energy and petrochemical value chain. L&T offers design, engineering, project management, procurement, construction and commissioning services to the hydrocarbon industry. Leveraging our rich parentage, we offer solutions in the area of ERP, Information Management, IT for Physical Layer Connectivity and major Capital Projects, as well as Niche Solutions based on emerging technologies. Our successful track record with global leaders is founded on this unique 'Business-to-IT Connect' delivered by our corporate heritage. From large-scale, end-to-end projects and system integration, to leveraging emerging technologies for innovative business solutions - we use our deep understanding of the domain to convert IT investments into competitive advantage.

A full-services IT firm with a blue-chip client roster, we offer comprehensive, end-to-end software solutions & services in:

- Energy & Petrochemicals - E&PC (Utility, Oil & Gas and Mining)
- Manufacturing
- Product Engineering Services - PES (Telecom)
- Banking & Financial Services - BFS
- Insurance

We deliver business solutions to our clients, leveraging our substantial domain experience and depth in technologies like SAP, Oracle (including PeopleSoft / JD Edwards / E-Business / Siebel / Hyperion, OBI EE+ and other Edge products like Agile, Demantra, G-Log, Lodestar and SPL), Microsoft, EAI, and DW / BI. In addition to application outsourcing (Application development, maintenance and support), we have strong capabilities in Implementation and Global Rollout, Upgrade / Migration, Infrastructure Management Services (IMS), Testing, Consulting, end-to-end Engineering Services and Embedded Systems & Solutions.

From large-scale, end-to-end projects and systems integration, to leveraging emerging technologies for innovative business solutions, we use our deep understanding of the domain to convert IT investments into competitive advantage.

Our advantages include

- Rich domain experience derived from our parent company, Larsen & Toubro
- A wide spectrum of technology and domain partnerships
- Service offerings across the value chain
- Specialty Utility Service offerings for Reliability Centric Maintenance, Prime Plant Optimisation, Customer Care & Billing (CC&B),Customer Information System (CIS), AMR/AMI, Smart Grid, Energy Efficiency and outage Management ,Work Management.
- Rich Repository Frameworks and accelerators help our clients save time and costs Our alliances with industry organizations help us to stay at the forefront of changes in the Energy & Utility industry

Our Technology Alliances

- SAP
- Oracle
- Microsoft
- IBM
- Indra
- Computer Associates
- Informatica
- Symbian
- Microfocus

Utility-focussed Solutions

We offer comprehensive, end-to-end software and Systems Integration solutions to the entire value chain within the Energy & Utility sector Process Control to Business Systems.

L&T Infotech Utility Solutions

- **ERP for Utility Operations**
  - ERP implementation, consolidation, migration Upgrade and Support
  - Plant maintenance (Customized Work / Asset Management)
  - Work clearance management
  - Project management tools implementation and support

- **Enterprise Asset Management**
  - Organizational Structures (Equipment and Technical Objects)
  - Asset life cycle Management
  - Preventive Maintenance
  - Maintenance Order Management
  - Work Clearance Management
  - Information Systems: Plant Asset Information Management

- **Enterprise Application Integration**
  - Consulting, Product Development, Implementation, Upgrade, support
  - Certified Consultants with cross-platform skills with Multi-year satisfied customer base
  - Tool based Approach, Accelerators & Best Practices
  - Dedicated SOA and EAI Center Of Excellence
  - Thought partnership, Tangible Customer Benefits
  - 600+ strong Integration practice & Multiple thousands of person months of experience spanning over 9 years

- **Enterprise Collaborations**
  - Customer Portals
  - Regulatory Compliance and reporting
  - Supplier collaboration solutions
  - Vendor management workbench
  - E-procurement with e-marketplace

- **Customer Care & Billing**
  - High volume billing with proration and printing
  - Fraud prevention and Contract administration
  - Payment gateways
  - Indirect spend analysis
  - Customer Interaction Center(CIC) processes
  - ERP / CRM, CIS & Billing implementation, consolidation, migration and global support

- **Distribution Operations GIS/OMS/WMS**
  - Spatial assets with Business data model
  - Interfacing with mobile field crew activities
  - Work request processing
  - Asset management service

- **Asset Information Management**
  - Availability of Comprehensive and Authentic information to Operations and Maintenance
  - Managing and monitoring the Assets of the organization
  - Maximizes Availability of Assets
  - Enabler for high ROI / ROA

- **Business Consulting & Transformation Services**
  - Consulting at L&T Infotech offers a complete roadmap for supporting strategic growth of our customers
  - Strong Business to IT connect: Delivered value to our parent group and Fortune 500 companies by pioneering implementation of leading edge technology solutions
  - L&T Infotech Consulting team comprises Business and technology consultants with rich industry experience
  - Frameworks and Accelerators to deliver consulting services with efficiency and consistency

Utility-focussed Solutions

We offer comprehensive, end-to-end software and Systems Integration solutions to the entire value chain within the Energy & Utility sector Process Control to Business Systems.

L&T Infotech Utility Solutions

- **Business Intelligence / Data Warehousing**
  - End-to-end BI and DW implementation and support
  - Cross Platform Migration
  - Factory Model for large scale report generation
  - Business Analytics, Predictive Modeling, Data & Text Mining, Data Profiling, Quality and Visualization
  - Meta Data & Master Data Management
  - Strategy and Consulting Services
  - Dedicated COEs to build competence and industry frameworks

- **Reliability Centric Maintenance/Prime Plant Optimisation**
  - Reliability Software implementation & Support
  - Reliability Training
  - Reliability Consulting
  - Research and Innovation
  - Extensive Customization Ability
  - Reliability analysis, data management and reporting
  - Solutions to improve Plant Availability, Operational Efficiency & Productivity
  - Plant Knowledge Management - Integration by providing connectivity between the physical layer & database

- **Physical Layer Connectivity & AMR / AMI / Automation**
  - Energy accounting and optimization
  - Plant performance consolidation for KPI monitoring
  - Integrated solution for control and monitoring of plant operations
  - End use solutions for AMR / AMI
  - Demand response
  - Energy Efficiency and management

- **Energy Trading & Risk Management**
  - Domain knowledge, technology experts, and value chain based approach to offer best services
  - Consulting
  - Project planning & management
  - Development, Implementation ,Testing , Training & Support
  - Business Process Automation
  - Service Desk Support
  - Global Implementation & Rollout
  - Upgrade and Migration

- **System Integration Services**
  - Turnkey execution of IT Projects - System design, hardware, software procurement, implementation, integration, testing & roll out
  - Infrastructure design & implementation
  - Data Center design & set-ups
  - Implementation of Disaster Recovery Systems for data availability
  - Facility Management Services
  - System Integration Partners – SAP, Oracle, Microsoft, IBM, HP, CISCO, CA and webMethods

- **Application Maintenance Services**
  - Providing AMS services for more than a decade to Utility Companies
  - The technology landscape of our services varies from ERP, EAM, CRM, PLM packages to DW & BI technologies to legacy systems
  - Reduce total cost of ownership while improving application stability and performance
  - SLA based 24x7 robust support model
  - ITIL based framework for service desk application

Enterprise Resource Planning

We offer a complete basket of services for ERP implementation, consolidation, migration and global support across 'generation', 'transmission' and 'distribution'.

We address the following business areas:
- Power Generation
- Power and Gas Transmission
- Power, Gas and Water Distribution
- Asset Management
- Global Supply
- Global Marketing
- Global Energy Trading
- Customer Service

SAP Services
- Our SAP capabilities include upgrade, rollout, deployment and support across multiple geographies
- SAP Industry solution for utilities coupled with deep domain knowledge
- L&T Infotech is the first Indian IT Service provider to receive "Global Application Maintenance Services Partner" certification from SAP AG
- Successfully executed over 350 projects and supports 400,000+ users globally

Oracle Services
- Our services span upgrade, rollout, deployment and support across multiple geographies
- Complete spectrum of services and solutions across the value chain for utilities which include SPL and Lodestar
- Worldwide Certified Program – partner of Oracle Corporation
- Dedicated EPM / BI Competency Center for exchange of knowledge, experiences and technical nuances in the Oracle EPM / BI space

Maximo Services
- Upgrade, integration and support in Maximo implementation and integration.

i-Analyst
i-Analyst is a complete web-based tool offering services & solutions on business applications, using Artificial Intelligence.

Features
- Completely web-based
- No explicit database programming required
- Database connectivity with Access, Oracle, mySQL, Excel, Text
- Security features
- Easy to maintain

CASE STUDY

Delivering Enterprise Application Implementation- Business Process Re-engineering for higher productivity

The Client
Client is the a state-owned power generation company & second largest power producing company in India

Case Summary
- Supply ERP Licenses & technical support for long term post implementation
- Solution implementation & application support for long term post implementation
- Hardware sizing, networking and DR requirements
- Provide Development and Testing environment
- Implement an integrated ERP system
- Bring out IT culture
- Automate & integrate business processes
- To embed transaction processing controls
- Reports to facilitate smooth functioning of operations

IT for Operations

Integrating Physical Layer to ERP through Automation Solution, Asset Management and Plant Operations

We offer solutions for physical connectivity that provide our clients with enterprise-wide visibility of operational health, including real-time visibility into production processes. This seamless view allows plant operations to be connected with business processes, thus enabling organizations to improve asset efficiency, manage globally distributed assets, reduce cycle-times and align operations with business strategy. Our solutions integrate diverse automation and information technologies in real-time, incorporating global process standards to give Energy & Utility companies greater returns on assets.

Highlights
- Integrating physical layer to ERP
- Mobile solutions
- Solutions for plant operations and production
- Equipment maintenance and analytics
- Asset management solutions
- Manufacturing Execution / Information Systems
- Engineering Documentation
- Pipeline automation, SCADA implementation, integration, real-time data management
- PLC / SCADA / HMI development and testing with actual hardware / software
- Plant and terminal automation, safety system automation, retail automation solutions, plant information management systems
- Technology evaluation and advisory services
- Consulting for safety analysis and energy saving
- Customer representative for vendor co-ordination, inspection of buy-outs

Automation Systems for Power Generation
- Integrated solution for control and monitoring of Power Plant, Boiler, Turbine, BOP and ECS
- Control and monitoring of CHP, AHP, DM Water, Stacker / Reclaimer / WT
- To provide high quality power and energy saving

Transmission and Distribution
- Protection, Control and Monitoring solution through RTU-based Automation for Substations
- SCADA / DMS Tool for better control and management of Power Systems

Enterprise
- Energy Management and Data Logging: Accounting of Energy and optimization for availability-based tariff norms
- Enterprise-wide Performance Monitoring System: Plant Performance data to HQ, highlighting inter-plant operational KPIs

About L&T Infotech

Larsen & Toubro Infotech Ltd. (L&T Infotech), one of the fastest growing global IT services company, is ranked by NASSCOM as the 6th largest software & services exporter from India and among the top 20 IT BPO employers in 2014. It is a wholly-owned subsidiary of Larsen & Toubro (L&T), a multi-billion conglomerate, and India's largest Technology, Engineering, Construction, Manufacturing and Financial Services organization, with global operations.

L&T Infotech provides end-to-end IT solutions and services to Banking & Financial Services; Insurance; Energy & Process; Hi-tech & Consumer Electronics; Utilities, Engineering & Construction; Consumer Packaged Goods, Retail & Pharmaceuticals; Auto & Aerospace; Media & Entertainment; Healthcare; Plant Equipment & Industrial Machinery and Travel & Logistics industries.

Headquartered in Mumbai, India, L&T Infotech delivers IT-enabled business solutions to its clients, leveraging its strong domain expertise and in-depth technology know-how, through its service lines, including Testing; Mobility; Infrastructure Management Services; BI/DW; SAP; Oracle & Microsoft; Enterprise Integration; and Manufacturing Execution Systems.

L&T Infotech is differentiated by its three-pronged value proposition, encompassing Business-to-IT Connect, Execution Excellence and Engage the Future. (www.Lntinfotech.com)

L&T Infotech
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Business-to-IT Connect
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