



# UTILITY SOLUTIONS

## Bringing Energy Efficiency to the Utility

### Our Offerings

#### Utility IT Solutions

- Meter Data Management
- Load Profiling & Settlement
- Customer Care and Billing
- Work and Asset Management
- Utilities Business Intelligence

**Plant Information System Solutions -**  
Real Time, Operational, event and real-time data management infrastructure

**ABT Solutions -** 0.2 Class, ABT Meters, Networking Hardware and ABT Analysis Software

#### IT Monitoring and Network Support

**Communications infrastructure (MPLS, VSAT, GPRS)**

**Data Center / Disaster Recovery and Customer Care Centers**

**LV & MV AC Drives**

### Features

- Fully integrated - Facilitates the implementation and simplifies the integration tasks.
- Fully functional. - Embraces best business practices in electric distribution, with an extended world wide customer base.
- Sustainable in time. Embraces the latest technologies available in the market, with a clear road map for future releases.
- Open and standard. Minimizes implementation period, simplifying the migration to future releases and the integration with third party system.
- Fully supported. Telvent is a solid company in both technical and financial aspects.

Whether the needs are modernizing a SCADA, replacing or upgrading a Metering system, adding Business Intelligence, Customer Information System or responding to new business requirement driven by market liberalization, L&T and its partners provide solutions that can turn the customer experience into a powerful competitive advantage.

The growing worldwide demand for energy makes it critical to effectively address safe, reliable, and efficient power delivery, to help utilities meet these needs, L&T offer EMS, DMS, and SCADA systems, Asset Management, Customer care & Billing solutions, Geographic information systems, Networking and smart metering tools that enables exchange of real time data and functions with high availability, security, and performance that are required for the mission critical environment.

Our solutions leverage valuable experience gained through solutions developed and implemented at Utilities. We bring proven expertise in consultancy, analysis, defining appropriate solutions and best practice implementation.

L&T has proven track records and has implemented several projects for utilities in the India, comprising state level Inter Utility Metering, Balancing and Settlement, Energy Accounting & Billing Systems. We have also supplied Plant Monitoring System which integrates Generation Control Systems and Transmission SCADA systems to provide centralized monitoring.

With leading edge products & world class integration experience, we can help your utility improve everyday business operations, and prepare for the grid of the future.

### Differentiators

- Dedicated automation centers for Engineering, Design, Manufacturing and Testing in India and Middle East. Quality assurance using ISO - 9001:2000, OHSAS 18001:2007, ISO 14001:2004 standards.
- First Indian automation company to achieve an enterprise-wide ISO/IEC 27001:2005(for information security)
- Flexible engagement models that align with the client's strategic road map
- Unique blend of domain knowledge, automation, instrumentation and IT skills
- Best-in-class People, Rapid ramp up capability
- Onshore/Offshore advantages and Offices around the world
- Vendor-neutral solutions
- Leveraging on the vast Utility expertise and worldwide presence of Larsen & Toubro group of Companies.

“Our Solutions deliver energy efficiency in the grid, improved customer service, reduced duration of outages, and demand response functionality never before possible”

“L&T and its partners empower utilities to work towards improving business operation and building efficient distribution networks, asset optimization energy trading, customer care and achieving regulatory compliance”

The electrical grid is an interconnected system of power plants, power lines and other complex components that move and deliver electricity from power plants to end users. Confronted by the need to increase generation capacity to meet rising demand, utilities must also reduce operational costs while improving management of their existing T&D assets. Regulators are driving the discussion from the need to reduce consumption through energy efficiency and demand response.

## Solutions

### Smart Metering Solution:

Titanium AMI software coupled with industry-leading meters

### Smart Operations Solution:

ArcFM™ GIS, Distribution Management (DMS), Feeder Management (FMS), Responder OMS, and OASys SCADA

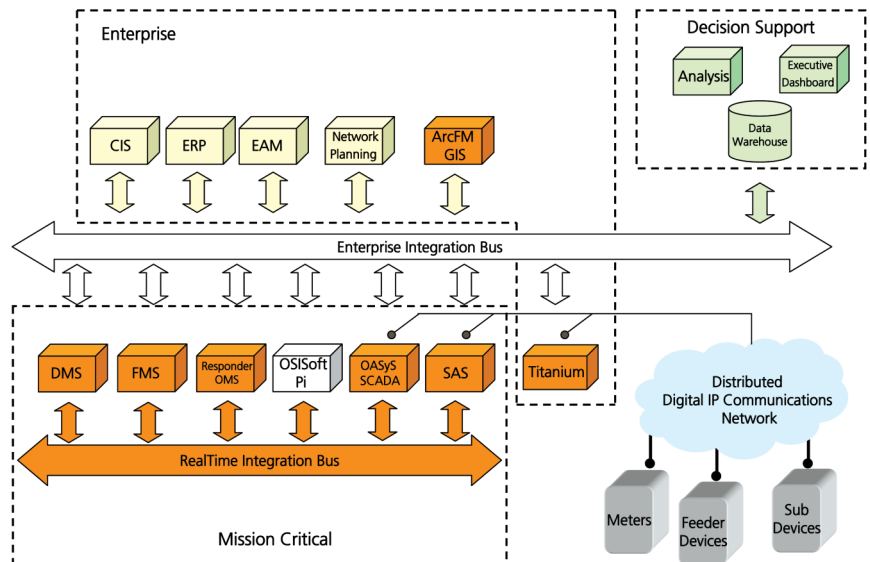
### Smart Network Solution:

SAGE, subCAT, and Saitel substation automation platforms, pole mounted RTUs, and IEDs

L&T addresses the market needs through the creation of the Smart Grid Solutions that helps utilities transform their grid into one that distributes electricity more efficiently, economically, reliably, and securely.

L&T's solution focuses on business and technical developments that create additional value for customers based on highly integrated secure infrastructure and advanced applications. It delivers energy efficiency in the grid, improved customer service, reduced duration of outages, and demand response functionality never before possible. The solutions comprises world class technologies in Utility IT systems, Supervisory Control And Data Acquisition (SCADA), Distribution Management System (DMS), enterprise Geographic Information Systems (GIS), Outage Management System (OMS), Advanced Metering Infrastructure (AMI), Remote Terminal Units (RTU) and communications.

## Smart Grid Solutions Architecture



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