

# Synterprise Transmission & Distribution Services

## Synterprise T&D Services

Synterprise T&D Services personnel perform **Transmission Line** and **Distribution System Engineering, Design, and Maintenance** for transmission and sub-transmission voltage Systems.

We understand that the reliability and availability of transmission and distribution system assets is of utmost importance to our clients and their customers.

### Transmission Line & Power Distribution Services:



- Financial and Economic Evaluations
- Site Planning & Right-of-Way Acquisition
- Environmental Impact Studies
- Design Project Management
- Transmission and Distribution Design
- Wood & Steel Poles, Structures and Foundations
- Distribution Systems
- Safety Audits and Safety Inspections

Synterprise will aid with transmission line and distribution system planning to ensure service quality, either by providing new transmission and distribution engineered solutions, or extending the life of your existing T&D assets. Our engineering services will provide greater transmission system reliability in an economically and environmentally friendly manner.

### T&D Design Services

Quality substation design, planning and maintenance are critical to ensuring the continuous supply and quality of electric power service. Synterprise T&D Services can handle every aspect of **substation design**, from permitting and site planning, to equipment procurement, construction co-ordination and substation maintenance services. Whether you require new construction, minor upgrades or a major overhaul, the experienced team at Synterprise T&D Services has the expertise to get the job done on time and on budget.

### Substation Design Services Include:

- One-Line Diagrams and Construction Drawings
- Site Selection & Equipment Layouts
- Project Management
- Equipment Procurement
- Construction Coordination
- Relay, Control & Metering
- Protective Systems Coordination
- Substation Automation
- SCADA Systems Design
- Grounding Systems
- Final Checkout, Start-up and Testing



Synterprise T&D Services personnel have extensive experience in the design and management of transmission, sub-transmission, switching systems, substations and distribution systems. We work closely with our clients to

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identify their specific requirements and implement cost-effective solutions for the high-performance and reliable operation of their power system.

## Construction Coordination

For utility distribution systems, Synterprise T&D Services coordinates construction with other utilities under joint use pole or trenching agreements. We also work closely with contractors to coordinate activities such as:



- Construction Project Management
- Site Preparation
- Foundation Work
- Material and Equipment Supply
- Metal Fabrication
- Modular System Fabrication
- Equipment Relocation and Installation
- Structural Steel Erection
- Electrical Wiring and Assembly
- Contractor Payment Approvals

## Maintenance Programs

Synterprise T&D Services provides custom-designed substation maintenance solutions for extending the life and reliability of your substation assets.

Synterprise T&D Services offers experienced help and advice on daily operational and maintenance functions and problem solving. This help can include assistance in decisions on the most economical and appropriate method to provide power for plant expansions to investigation and correction of outage or power quality problems.

Synterprise has deep experience in T&D work management practices, tools, and techniques including project management, computerized work management, mobile technology work management, Geographic Information Systems, reliability software and other improvement tools, techniques, and maintenance improvement applications. Utilize Synterprise expertise to improve system and equipment reliability, design and upgrade PM programs, and execute turn key major maintenance packages.



Synterprise T&D Services is based in Chattanooga, TN. Put the skilled personnel of Synterprise to work on your substation and power systems requirements.