

HOW A TEXAS MUNICIPALITY SUCCESSFULLY SWITCHED ELECTRIC GRIDS UTILIZING PRINCIPLE SERVICES' FULL SUITE OF SERVICES

Case Study:
Lubbock Power & Light

AT A GLANCE

BUSINESS

- Transmission & Distribution

THEIR CHALLENGE

- Limited Management & Inspection Resources
- Inexperience with large volume transmission and substation projects

OUR SOLUTION

- Deploying our experienced resources and proven approach in power infrastructure construction to serve as LP&L's Owner's Representative and PMO to drive quality execution.

OVERVIEW

In 2016, Lubbock Power & Light (LP&L) began the process of moving their load and generation from Southwest Power Pool (SPP) into Electric Reliability Council of Texas (ERCOT). This transition required ~5 years and \$481 million to complete the significant amount of transmission and substation work. LP&L typically built \$10 million in annual capex, so this program required dramatic changes in their resources. They contracted with Principle Services, LLC to act as their Project Management Office (PMO), helping them guarantee adherence to scope, schedule, and budget constraints.

PROGRAM DETAILS



**16 Substations (3 Greenfield
& 13 Rebuilds)**



**12 Transmission Lines (5 Greenfield
& 7 Rebuilds)**



69 kV to 115 kV Conversion Projects



345 kV ERCOT Tie-Ins



**Outage Coordination Across Two
Power Grids**

ERCOT INTEGRATION PROJECT

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PROJECT RESULTS

**481 MILLION
DOLLAR PROJECT**



**99% COST
ACCURACY**

1% under CCN
budget

**4-YEAR
DURATION**



**AHEAD OF
SCHEDULE**

Finished ahead of
schedule, saving
millions in power
purchase penalties

**HIGH QUALITY
STANDARD**



**EXPERT EXECUTION
OF SCOPE**

Successful installation
of equipment and
outage planning allowed
the assets to energize
without a single safety
issue, unplanned loss of
load, or stakeholder
concern



OUR SCOPE

PROGRAM MANAGEMENT

- Program CapEx budget controls and monitoring
- Integration and tracking of construction and outage schedules

PROJECT MANAGEMENT

- Cost Adherence
- Direct oversight of Owner's Engineer, material vendors, and subcontractors
- Coordination between 30+ contractors, multiple neighboring utilities, and internal LP&L departments

CONSTRUCTION INSPECTION

- Quality Assurance for construction contractors
- Real Time Daily reporting
- Owner Representation on-site