



## CASE STUDY **LUBBOCK POWER & LIGHT**

# How A Texas Municipality Successfully Switched Electric Grids Utilizing Principle Services' Full Suite of Services

### 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 SouthwestPower 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 ProjectManagement 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 TwoPower Grids



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# ERCOT Integration Project

## 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
- OwnerRepresentation on-site

## PROJECT RESULTS



**\$481M 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

