

## 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 2018, Lubbock Power & Light (LP&L) moved their load and generation from Southwest Power Pool (SPP) into Electric Reliability Council of Texas (ERCOT). This transition required 4 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

Case Study:  
Lubbock Power & Light

### 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

### 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

