ADOPTED OPERATING BUDGET & CAPITAL PROGRAM

Fiscal Year 2020-21

...securing the future

FY 2020-21
Adopted Operating Budget & Capital Program

Lubbock Power & Light
The power is yours.

FY 2020-21 Adopted Operating Budget & Capital Program

Elected, Appointed and Principal Officials/Key Finance Staff

City Council

Daniel M. Pope	Mayor
Jeff Griffith	Mayor Pro Tem – District 3
Juan A. Chadis	Council Member – District 1
Shelia Patterson Harris	Council Member – District 2
Steve Massengale	Council Member – District 4
Randy Christian	Council Member – District 5
Latrelle Joy	Council Member – District 6

Electric Utility Board

Daniel L. Odom	Chair
Don Boatman	Vice Chair
Greg Taylor	Secretary
Edwin E. "Butch" Davis	Board Member
Jane U. Henry	Board Member
Kevin McMahon	Board Member
Edwin Schulz	Board Member
Gwen Stafford	Board Member
Vacant	Board Member
Daniel M. Pope	Ex-Officio Member

Principal Officials and Financial Management

David McCalla	Director of Electric Utilities
Jenny Smith	General Counsel – LP&L
Andy Burcham	Assistant Director of Electric Utilities/CFO
Blair McGinnis	Chief Operating Officer
Joe Jimenez	Financial Planning and Analysis Manager
Ranu Manik, CPA	Financial Services Manager
Matthew Rose	Government Relations and Public Affairs

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FY 2020-21 Adopted Operating Budget & Capital Program

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Lubbock Power & Light Overview

Mission and Purpose

Provide citizens with safe, reliable, and high quality electric service at the most affordable rates while being financially self-sustaining. Lubbock Power & Light (LP&L) provides the following services:

- Operation and maintenance of the generation, transmission, and distribution facilities of the LP&L system
- Delivery of energy through transmission and distribution lines and substations to our customers
- Metering, billing, collections, and customer service for LP&L, Water/Wastewater, Solid Waste, and Storm Water customer accounts (City of Lubbock Utilities)

Goals and Objectives

- Four nines uptime – Setting a measurable standard of excellence for reliability; power is up 99.99 percent of the time
- Consistently low rates and efficiency – Operating an effective utility with low rates and supporting customers by helping them save
- Friends and neighbors resolution – Customer service interactions are simple, efficient and solved in one phone call; no transfer or customer follow-up calls needed
- Public stakeholder engagement – Leadership presence in the community engaging with influencers and visionaries interested in Lubbock's future
- Long-term financial sustainability and strong credit ratings
- First-class service to our customers while operating with the highest code of ethics
- Safe environment for all employees and customers

Accomplishments for Fiscal Year (FY) 2019-20

- Completed all four of the required integration Certificate of Convenience and Necessity (CCN) cases, including: Ogallala-to-Abernathy 345 kV Line, Docket No. 48625 on September 25, 2019; Abernathy-to-Wadsworth 345 kV Line, Docket No. 48668 on December 18, 2019; Wadsworth-to-New Oliver-to-Farmland 345 kV Line and Southeast-to-New Oliver-to-Oliver 115 kV Line, Docket No. 48909 on January 23, 2020; and, Abernathy-to-North 345 kV Line, Docket No. 49151 on March 12, 2020.
- Achieved settlement in a Federal Energy Regulatory Commission (FERC) case that resulted in a $1 million dollar per year savings.
- Received North American Electric Reliability Corporation (NERC) certification for five employees to serve as ERCOT System Operators.
- Completed the on-site Wide Area Network installation process and began voice and data communication testing between ERCOT and LP&L.
- Continued the engineering, procurement and construction phases for the capital projects related to the inner 69 kilovolt (kV) and outer 115kV transmission loop projects.
- Completed and/or closed 27 capital projects, totaling $48.44 million, which consisted of $10.53 million in annual projects, $4.95 million in transmission projects, $16.32 million in capacity upgrade projects, $3.0 million in distribution projects, $4.51 million in autotransformer projects, $3.01 million in substation projects, $2.55 million in production projects, and $3.54 million in other projects.
- Completed the following major substation, distribution, and transmission projects:
  - Chalker to Thompson Transmission Line Rebuild
  - Southeast to Oliver Transmission Line Rebuild
  - Thompson to Vicksburg Trans. Line Rebuild
  - Northwest to Mackenzie New Transmission Line
  - Erskine to Mackenzie Transmission Line Rebuild
  - Red Raider Tap Transmission Line
  - Chalker Substation Rebuild
  - Oliver Substation Rebuild
  - Mackenzie Substation Rebuild (115/69kV Autotransformer)
  - Holly Substation Rebuild (115/69kV Autotransformer)
  - McDonald Substation Upgrade
  - Vicksburg Substation Upgrade (115/69kV Autotransformer)
  - New Slaton Substation
  - New Red Raider Substation
  - Thompson Substation Upgrade
  - Northwest Substation Upgrade
  - Distribution Capacitor Bank Installations
- Continued work on a number of studies for the Electric Reliability Council of Texas (ERCOT) integration. These studies layout the foundation and path for LP&L to successfully comply with all ERCOT requirements before LP&L interconnection in June 2021.
- Completed distribution switching studies to improve reliability and overall performance of the distribution system.
- Completed repairs on Cooke Station GT-2.
- Completed the pilot project for light-emitting diode (LED) thoroughfare street lights.
- Upgraded the Outage Management System (OMS) mapping process to allow an interface to the Geographic Information System (GIS) to provide more timely and efficient updates to the switching and public outage maps.
- Revamped compliance strategy/programs for NERC mandates.
- Enhanced the capability of the Transmission and Distribution Control Room by expanding redundancy of the supervisory control and data acquisition (SCADA) system and supporting systems. This

expansion of the SCADA system functions meets NERC mandates requiring a backup control room.

- Facilitated internal vendor safety related training for employees in the areas of First Aid/CPR, automated external defibrillator, hazardous chemical operations and loss control management.
- Responded to 14,472 work orders, of which 2,455 were outage orders, in the Service Department.
- Modified 37,939 pole records and created or modified over 190,400 GIS features/attributes since the migration to the ArcFM GIS solution (average of 2,500+ per week).
- Completed 2,920 streetlight orders in Distribution Customer Service.
- Issued 182 work orders in the Construction Group; responded to 190 requests for engineering support; received 32 new commercial projects; received three new residential subdivision projects within our service territory; received 13 new residential subdivision projects; and received six new apartment complex projects.
- Received and stocked 2,201 demand and non-demand meters in the Meter Shop; tested 2,215 single and three phase watt-hour meters; programed 1,129 watt-hour meters; completed 44 tamper reports; completed 82 new transformer rated meter installs; set 92 transformer rated meters at current customer sites; completed 148 field service jobs; completed 483 site checks; and tested 1,039 pairs rubber gloves, and 178 pairs of rubber sleeves.
- Rolled-out the advanced metering infrastructure (AMI) project and completed significant meter deployment, affecting every electric and water customer in the city.
- Trained Field Service personnel in actively utilizing the new AMI technology. This technology requires staff to have additional technical skills and knowledge, but allows staff a much more in-depth and integrated approach to their orders and customer service.
- Completed AMI installations and completed a 100-percent audit of all electric and water installations to ensure the accuracy and quality of the installations.
- Prepared for the Oracle Customer Cloud Service (billing system) go-live, planned for the beginning of FY 2020-21.
- Developed new business processes for meter reading, in conjunction with the Hilo Department, to include both manual meter reads and AMI meter read verification.
- Transitioned Meter Readers into the newly implemented positions of Utility Meter Technician, as the AMI project ramps down and manual meter reading becomes obsolete. Trained the new meter techs with skillsets necessary to work with AMI technology.
- Implemented the full functionality of Utility Operations as a 24-hour call center. This call center works with all city departments, particularly during the evenings, and on weekends and holidays.
- Increased paperless billing by 59 percent and increased kiosk usage in the lobby by 24 percent and in the outdoor drive-thru by 60 percent.
- Increased interactive voice response (IVR) traffic significantly with a 93 percent increase in weekend traffic and 54 percent increase in weekday traffic.

Objectives for FY 2020-21

- Continue engineering, procurement, and construction on the inner 69kV and the outer 115kV transmission loop project in order to prepare for interconnection to ERCOT by June 2021.
- Continue work on completing Resource Asset Registration Forms and EPS Meter design proposals for three generation units (Massengale, Cooke and Brandon) that will be integrated into the ERCOT System.
- Continue efforts to construct the 345kV integration facilities to the north and south of the City in coordination with Oncor Electric Delivery Company (Oncor).
- Install a mobile substation at the Northeast Sub to facilitate the rebuild of the 115 kV bus.
- Continue work on the conversion of the distribution system that is either 4kV or 12kV.
- Increase the amount of overhead line proactive and preventative maintenance to continue the reduction of outages.
- Work to ensure that most SCADA operators are successful in passing their NERC certification test before the new transmission assets come online.
- Assume increased regulatory obligations due to the 115 kV conversion, which will change LP&L's registration with NERC.
- Maximize the GIS Department's role and effectiveness by increasing workflow efficiency and improving access to accurate GIS data. System upgrades with the new billing system, asset management system and ArcFM GIS software solution are planned.
- Train all Meter Shop personnel with ERCOT-polled settlement (EPS) meter training. ERCOT requires annual testing of all revenue meters that will be polled by ERCOT and meter testing crews are required to be ERCOT EPS certified.
- Complete all service requests in the Field Services Department either same day or next day based on business practices.
- Increase paperless billing to 20 percent of City of Lubbock Utilities' customers, and increase kiosk usage by 50 percent.

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- Continue to work with customers to improve communication and customer service in order to strengthen overall relations between ratepayers and their municipally-owned utilities.
- Continue marketing, including bill inserts, onserts, and informational videos.
- Improve communication and collaboration between City departments in an effort to be more efficient and to streamline operations.

Funding Sources Overview

LP&L is pleased to present a budget that aligns with the previous year's forecast and does not recommend a base rate adjustment for FY 2020-21.

Overall, budgeted revenues increase $43.70 million, or 18.2 percent, for FY 2020-21 and include the following changes:

- Interest earnings decrease $0.70 million, or 47.5 percent based on lower yields in the pooled investment portfolio, mainly as a result of the Federal Reserve Bank's recent decreases to short-term interest rates.
- Uncollectable Metered Revenue is an offsetting revenue that has been added in FY 2020-21 related to metered revenues that are not received on an annual basis from electricity sales. This is based on historical percentages of metered revenue not collected.
- General consumers' metered revenue is flat due to no base rate increase for FY 2020-21.
- Power Cost Recovery Factor: The Purchased Power Cost Recovery Factor (PCRF) revenues increase $12.96 million, or 8.6 percent due to an increase totaling $11.23 million for projected transmission costs in both the Southwest Power Pool (SPP) and ERCOT, an increase of $7.03 million in estimated energy costs, offset by a decrease in capacity costs totaling $5.33 million.
- Franchise fee equivalent (FFE) revenue increases $1.78 million, or 17.2 percent, mainly due to the increase in PCRF revenues highlighted in the previous bullet and due to revenue recognition for a hold harmless payment to the Southwestern Public Service Company (SPS) discussed below.
- Transmission Cost of Service (TCOS) is a new revenue stream in FY 2020-21 that commences upon entry to ERCOT. LP&L is expected to have submitted a TCOS rate filing in late FY 2019-20 to the Public Utility Commission (PUC) in order to earn a return on its transmission assets. The TCOS revenues begin in FY 2020-21 with four months of revenues. The TCOS revenues included in the forecast are estimated, and are the output of a preliminary version of the TCOS model before all transmission and distribution allocations have been completed. The TCOS numbers will likely change as the model and work papers are finalized. Additionally, final TCOS revenues are subject to PUC approval and could be higher or lower than the forecast.
- SPS Hold Harmless Reserve Revenue Recognition totals $24 million for FY 2020-21. The funds to make this payment were reserved in FY 2018-19 and FY 2019-20, as a result of purchased power cost savings that was achieved as a result of very low natural gas costs. From an accounting standpoint, these revenues were deferred (not included in the income statement in FY 2018-19 or FY 2019-20), but will be recognized as a revenue in FY 2020-21. Therefore, revenues will match expenses for this purpose in this fiscal year.
- ERCOT Hold Harmless totals $7.33 million, and is an offset to TCOS revenues. In the order approving LP&L's integration into ERCOT, the PUC ordered LP&L to pay $22 million each year for the first five years, which is credited to ERCOT wholesale transmission customers to mitigate integration costs. This amount is shown as an offset to the TCOS revenues in the budget. The first four months of payments will begin in late FY 2020-21 and will continue until mid-FY 2025-26.
- Fees and charges revenue decrease $0.12 million, or 4.5 percent based on recent trends. Fees and charges include items such as: reconnect fees, disconnect fees and late charges.
- Outside work order revenue decreases $0.12 million, or 11.9 percent due to recent year trends. This line item includes service work order requests for new service, street lights, pole sets, and other distribution-related services.
- Transfer from the debt service fund remains flat at $3.10 million and represents bond proceeds that will be used to pay the capitalized interest payment on the outstanding 2017 and 2018 30-year revenue bonds.
- Transfer from other funds increases $0.05 million, or 1.8 percent, due to a transfer from the Water fund for its portion of Lake 7 re-route costs for the Double Mountain to Fiddlewood 345kV Line capital project; an increase in the transfer from the Water, Wastewater, Storm Water and Solid Waste funds (Other City Utilities) for debt service on the billing system capital project; and a slight increase in the transfer from the Water Fund for debt service on the AMI capital project. These increases are offset by a one-time transfer in FY 2019-20 from the Other City Utilities, totaling $1.28 million that funded a portion of the generator, IVR system and furniture fixtures and equipment (FF&E) at the new Customer Service Center adjacent to Citizen's Tower.

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Expense Overview

Budgeted expenses increase $40.33 million, or 16.6 percent, for FY 2020-21. The main drivers of the increase include a rise in energy and transmission costs and the one-time SPS hold harmless payment. These increases are offset by reduced capacity costs and principal and interest payments on outstanding bonds. These changes, in addition to other expense line items, are detailed in the following sections:

- Compensation decreases $0.28 million, or 1.5 percent, due to a decrease in three full-time equivalent (FTE) positions in the Meter Reading department, a decrease in expected terminal pay; decreases in part-time and temporary employee pay; offset slightly due to an increase in education incentive pay. The staffing changes are described in the Staffing Overview in the following section. Additionally, decreased personnel charges in operations and maintenance are due to a higher allocation of personnel costs charged to transmission system and distribution projects, offset slightly by a decrease of time charged to the billing system and AMI projects. The percentage amount charged to capital projects increases from 18.0 percent of payroll in FY 2019-20 to 18.8 percent of payroll in FY 2020-21. There is no merit increase or cost of living adjustment included in FY 2020-21.
- Benefits decrease $0.09 million, or 1.1 percent, related to the decreases in compensation mentioned above, offset by an increase in health benefits.
- Energy/fuel costs increase $7.03 million, or 9.2 percent, driven by anticipated higher costs of energy in the SPP IM and ERCOT markets due to increasing natural gas prices. Since June 1, 2019, LP&L has purchased energy through the SPP Integrated Marketplace (IM). Beginning in June 2021, LP&L will buy a smaller portion of energy in the SPP IM, and will begin purchasing a large portion of energy in the ERCOT market. LP&L is currently identifying power purchase options beginning in June 2021, and will build a portfolio of resources in advance of the integration date. The energy costs in both the SPP IM and in ERCOT are expected to increase approximately $3.19 million based mainly on higher expected gas prices. The energy purchases in SPP and ERCOT include fuel costs that are embedded in the locational marginal prices (LMPs). Therefore, LP&L pays for fuel indirectly through purchased energy in the market, and those costs are expected to rise from historically low levels. Additionally, the budgeted expense level for wind purchases will increase $3.86 million based on historical cost trends.
- Transmission costs increase $11.23 million, or 36.4 percent. FY 2020-21 is the first year that LP&L pays transmission costs in ERCOT. For the final four months of the fiscal year, LP&L will make ERCOT transmission payments totaling an estimated $7.26 million. Transmission costs in SPP are charged on a one-year lag, and therefore a full 12 months of transmission costs will be required in that regional transmission organization (RTO). Transmission costs in SPP are expected to total $34.85 million for FY 2020-21, which is an increase of $3.97 million, largely related to the continued significant transmission construction buildouts in that RTO.
- Capacity costs decrease $5.33 million, or 14.7 percent. Capacity costs in FY 2019-20 consisted of eight months of payments through a full-requirements contract with SPS, which transitioned to four months of new capacity agreements, including: 1) a partial-requirements contract for 170 megawatt (MW), with capacity purchases calculated very similarly as they did under the full-requirements contract, but only for 170MW; and 2) a 24-month, 400MW capacity contract whereby LP&L paid a lower per-kilowatt (kW) rate on the 400MW than the amount paid for capacity under the full-requirements contract. FY 2020-21 will consist of 12 months of capacity charges through the 170MW contract and eight months of capacity charges through the 400MW contract. The decrease in the price of capacity is solely related to the termination of the 400MW capacity contract on May 31, 2021. With the integration of 70 percent of LP&L's load into ERCOT on June 1, a significant amount of capacity charges will be eliminated since ERCOT is an energy-only market.
- The SPS Hold Harmless Payment is a one-time, $24 million payment to SPS in FY 2020-21 that indemnifies SPS and its customers for LP&L's integration into ERCOT. The funds to make this payment were reserved in FY 2018-19 and FY 2019-20 as a result of purchased power cost savings that was achieved as a result of very low natural gas costs.
- Maintenance decreases $0.06 million, or 2.3 percent, due to a decrease in gas plant maintenance based on historical spending and due to the fact that both the Cooke Station Gas Turbines 2 and 3 (GT-2 and GT-3) were refurbished in FY 2019-20.
- Professional services/training increases $2.43 million, or 34.9 percent primarily due to increased legal costs for purchased power contract negotiations and Oracle's service costs for the new billing and workforce management systems. Managed cloud services with Oracle begin in FY 2020-21, totaling $0.72 million. Additionally, increased costs include regulatory compliance expenses related to the Electric Reliability Compliance Program, totaling $0.36 million; and a professional services agreement required to support the functional obligations associated with the upcoming NERC Transmission Operator registration, totaling $1.18M. Offsetting these increases is a reduction totaling $0.06 million for lower costs for Kubra billing support, a $0.20 million decrease in TCOS and financial modeling costs, and a $0.33 million decrease in power marketing expenses as these costs were transferred into the purchased power costs.

- Other Charges decrease $0.19 million, or 12.2 percent due to a decrease in rent for a leased postage machine that will not be needed in Citizens Tower, totaling $0.04 million; a decrease in GIS software licenses and maintenance extended support, totaling $0.02 million; and decreases in computer equipment to update computers and security systems as well as the purchase of tablets/laptops for new FTEs that was a one-time expense in FY 2019-20, totaling $0.13 million.
- Scheduled charges increase $1.06 million, or 21.4 percent, due primarily to large increases in property and liability insurance, totaling $1.24 million. Claims, loss history, and the volatility of the insurance market are the main drivers for the increase. The increases in insurance are slightly offset by a decrease in data processing charges, in the amount of $0.27 million, as Oracle and Itron cloud programs have reduced software costs related to customer information systems.
- The reimbursement from the Other City Utilities for the customer service function decreases $0.21 million, or 3.6 percent. The calculation of the reimbursement is based on a negotiated methodology agreed upon by the City and LP&L and audited numbers from FY 2018-19.
- Debt service decreases $8.50 million, or 32.4 percent, due to the payoff of the 2010 series revenue bonds in FY 2019-20. The 2010 series revenue bonds were issued to finance the acquisition of the SPS distribution system, and the annual debt service payments averaged approximately $9.1 million per year.
- Direct purchase revolving note program fees decrease $0.36, or 72.9 percent, as the majority of the undrawn fee (standby fee) and agent fees have been paid in FY 2019-20. The Note Program Fees were a new expense in FY 2019-20 related to the costs associated with administering the notes. The Note Program is being used to finance the majority of LP&L's capital expenditures through December 31, 2021. The Note Program allows LP&L to (1) make draws at a short term rate of interest, (2) match cash flow/draw needs with a complex construction schedule, and (3) provide flexibility by matching an initial principal and interest payment date in 2021 with the first receipt of TCOS revenues. Notes are being issued with no repayment obligation throughout the term of the Note Program. Long-term, fixed rate bonds are expected to be issued prior to the end of FY 2020-21 to refinance the Note Program, and issue new money, shortly after LP&L's integration into ERCOT.
- Transmission System Inventory is a new line item in the budget, and is. The items will be placed on the balance sheet as an asset; however, the cash expenditure needs to be recognized in the budget. The estimated purchase price of $1.57 million includes items such as 115kV and 345kV circuit breakers and transformers; concrete and steel transmission poles; and various other hardware and equipment needs.
- The Indirect Cost Allocation increases $0.48 million, or 37.5 percent primarily due to a new costs in FY 2020-21 for LP&L's portion of Citizen's Tower maintenance costs (building use charge) and increased expenses in City administrative cost centers. Additionally, six new FTEs at LP&L, added in FY 2019-20, slightly increased allocated costs to LP&L in the categories that are allocated based on employee count.
- FFE and Payment in Lieu of Taxes (PILOT) increase $1.85 million and $0.37 million respectively, or 16.9 percent, due to the increases in general consumers metered revenue, PCRF revenue, and recognition of revenue reserved for the SPS hold harmless payment mentioned in the previous Revenue Overview section.
- The transfer to electric capital increases $4.88 million, or 28.5 percent, based on an increase in cash-funded capital projects.

Staffing Overview

The FY 2020-21 Operating Budget incorporates a net decrease of three FTE positions. Due to the completion of AMI installation, the Meter Reading Department is dissolved and remaining staff will be transitioned to a new position and department. The position changes are summarized as follows:

Three position have been eliminated in the Meter Reading department as Meter Reader positions have been deemed no longer necessary due to the transition to AMI. Additional positions will be reduced or transitioned to Meter Technicians after go-live of the new billing system.

Additionally, four positions have been reclassified and/or moved to a new cost center within the organization as follows:

- Move three meter reading positions from the Meter Reading Department to the Field Services Department and reclassify those positions to meter technicians due to the implementation of AMI.
- Move one electric promotion coordinator position from the Regulatory Compliance Department to the Conservation and Education Department.

The salary and benefits for the reduced positions, totals $0.13 million.

Capital Program Overview

The FY 2020-21 Capital Program incorporates significant infrastructure that is required for system reliability and strength. The majority of the Capital Program includes specific transmission assets that will complete an inner

69kV transmission loop, an outer 115kV transmission loop, and 345kV integration facilities for the ERCOT interconnection. Each of the capital projects are categorized by FERC category/account.

Following are highlights of the program:

- The overall capital program totals $617.65 million, which incorporates a significant addition of transmission assets. Long term financing of these projects will be issued following completion. The term of the bonds for the transmission assets will be 30 years, based on the long life of these assets (30+ years). Additionally, all of the transmission assets will be included in a TCOS filing with ERCOT, resulting in a substantial revenue stream to offset the debt service costs. All other debt-funded projects will utilize 20-year financing.
- LP&L has 45 active projects with an appropriation-to-date totaling $370.57 million.
- The adopted FY 2020-21 capital program for LP&L totals approximately $36.3 million for the following projects.
  - Operation System Upgrades - $0.20 million
  - FY 2020-21 Service Distribution Meters - $0.23 million
  - Street Light Audit - $0.25 million
  - ERCOT Conversion Work - $0.38 million
  - East Broadway Series Street Light Conversion - $0.42 million
  - FY 2020-21 Street Lights - $0.48 million
  - Substation Capacity Upgrade – Northeast - $0.60 million
  - Downtown Redevelopment - $0.65 million
  - Program 69-115 Voltage Conversion - $1.00 million
  - Double Mountain to Fiddlewood 345kV Line – $1.2 million.
  - FY 2020-21 Transmission Crew Vehicles and Equipment - $2.15 million
  - FY 2020-21 Overhead Lines - $2.42 million
  - FY 2020-21 Vehicles and Equipment - $2.67 million
  - FY 2020-21 Underground Distribution - $2.88 million
  - FY 2020-21 Distribution Transformers - $3.50 million
  - ERCOT Transmission/Distribution Service Provider System - $3.55 million
  - Substation 25kV Capacity Upgrades - $3.80 million
  - Distribution System Upgrade-Improvements-Expansion - $4.30 million
  - FY 2020-21 Distribution System Upgrade - $5.63 million

Financial Model Forecast

The LP&L Financial Model Forecast projects all revenues, operating expenses, and capital expenditures for FY 2021-22 through FY 2025-26. The model considers every line-item for 27 cost centers and applies growth rates that are specific to each line-item in order to project a realistic financial portrait. The model delves into the details, but also incorporates strategic plans that impact the future of LP&L. The financial model incorporates revenues and expenses/expenditures related to the upcoming integration of the utility into ERCOT as well as retail choice. The model anticipates that LP&L will opt-in to the ERCOT competitive retail electric market (Opt-In) by October 1, 2023 and will not operate as a Retail Electric Provider (REP). Any opt-in assumption is contingent on both governing bodies of LP&L voting to opt in to competition. Other factors and assumptions incorporated into the model include:

Funding Sources

- Interest Earnings: Interest earnings are calculated on the estimated general reserve levels at current interest rates. There are no estimated interest rate increases or decreases over the life of the financial model.
- Base Rates: The financial model does not currently anticipate base rate adjustments through FY 2025-26. LP&L plans to undertake a comprehensive Cost of Service (COS) study after one year of AMI meter information is collected. LP&L does not expect the COS study to increase rates overall, but may result in changes among rate classes. The COS study will compare customer class revenues to customer class revenue requirements and will indicate the degree to which existing rates recover revenues from each customer class on a COS basis. Once completed, the COS analysis will be the basis for rate design. Generally, the rate design portion of a COS study focuses on designing rates to adequately recover the costs to serve customers and reflect the COS study results for each customer class.
- Uncollectible Metered Revenue: Write-offs typically average 0.5 percent of sales on an annual basis. This line item is a contra revenue, and is expected to occur through the end of FY 2022-23. After that date, all metered revenues will be billed by REPs, who will pass-through our costs in the form of a Transmission and Distribution Rate. Therefore, beginning in FY 2023-24, this cost of doing business will be eliminated.
- Power Cost Recovery Factor: PCRF revenues match power costs throughout the duration of the financial model.
- FFE: Historically, the FFE charge has been computed as five percent of metered revenues. In order to minimize the financial impact to the City's General Fund of Opt-In, the FFE revenue calculation will be changed to a "cents-per-kilowatt hour" (¢/kWh) charge beginning in FY 2023-24. At this time, it is estimated that the customer charge would be just under $5/10^{ths}$ of a cent per kWh.

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- Transmission Cost of Service: TCOS revenues are anticipated to grow along with system growth throughout the financial model time horizon.
- ERCOT Hold Harmless: In the order approving LP&L's integration into ERCOT, the PUC ordered LP&L to pay $22 million each year for the first five years, which will be credited to ERCOT wholesale transmission customers to mitigate integration costs. This amount is shown as an offset to the TCOS revenues in the model. The payments begin in June 2021 (last four months of FY 2020-21) and will continue until May 2026.
- Fees and Charges: These customer charges include revenues for reconnect/disconnect fees, administrative fees, meter testing fees, duplicate statement fees, and late charges. The future year revenues are estimated to decline in FY 2023-24 due to Opt-In. The future forecasted revenues will include mainly disconnect/reconnect fees and meter testing fees. The bulk of the revenues associated with late charges will be eliminated as those charges will shift to the REPs.
- Miscellaneous: This revenue category is made up of sales tax discounts and returned check fees - both of which will be eliminated with Opt-In.

Power Pass-Through Costs

- Energy/Fuel: The model anticipates the elimination of the majority of energy purchases after Opt-In. However, payments for the purchase of energy from a competitive wind power purchase agreement will continue. For the term of the agreement (through May 31, 2032) this facility will operate as a merchant unit, with expenses partially offset by revenues from the SPP IM for energy sold in the market.
- Energy/Fuel – LP&L Production: Production costs are included in power costs. Beginning in FY 2023-24, those cost centers will be downsized and the generating units will be idled with minimal costs. The results of a review of the energy markets in ERCOT will ultimately determine whether or not the generating units will continue to be operated.

  Prior to FY 2023-24, the production units will be used to produce power for the City in times where the SPP IM or ERCOT market energy prices are higher than the utility's production costs. As a result, the fuel cost to operate the production units will be netted against the revenues from the SPP IM or ERCOT market and will be included in the power cost recovery calculation.
- Transmission: A portion of transmission expense from FY 2020-21 through FY 2022-23 is based on projected costs in SPP. Beginning in FY 2020-21, transmission costs begin to shift to ERCOT, in relation to the integration. Transmission costs in SPP are charged on a one-year lag, therefore, transmission costs are expected to rise dramatically in FY 2021-22 and FY 2023-24, to approximately $50.15 million and $45.00 million respectively, when lagging transmission costs are paid to SPP. After FY 2023-24, transmission costs will stabilize at an average of $32.42 million per year.
- Capacity: The forecast includes projected costs related to the 170MW partial requirements contract with SPS and assumes continued appropriations for this contract in future fiscal years. As load is interconnected with the ERCOT system, SPP capacity charges will decline due to the fact that ERCOT is an energy-only market and does not have a capacity requirement.

Departmental Expenses

- Compensation/Benefits – Customer Service: In the Opt-In environment, billing for customers in ERCOT will be performed by REPs and meter reads (including disconnects/reconnects), will be handled remotely with AMI. These changes will affect the customer/field service departments within the utility. Costs related to these changes are expected to decline by at least $1.2 million once Opt-In is fully implemented. The current model maintains historic levels of expense, which will be modified when cost studies are completed.
- Compensation/Benefits – Market Operations: Salaries and benefits within the customer service area include future additional costs related to new capabilities needed to support the changed market environment after Opt-In. The additional capabilities will include data analytics and management; reporting to the PUC, ERCOT, and REPs; market support services; metering support (EPS meters, Electronic Service Identifier IDs, etc.); account managers for market relations; and customer protection and solutions. The costs related to these capabilities are estimated to be equal to or more than $1.2 million per year, beginning in FY 2023-24. These new costs will largely offset the cost reductions discussed in the bullet above.
- Compensation/Benefits – Transmission: The addition of a fully dedicated transmission crew is included in the forecast for FY 2021-22. The seven person crew is expected to be comprised of one foreperson, three journey line workers, two apprentice line workers, and one equipment operator. The addition of a new crew will allow LP&L to hire employees whose specialized skills are in transmission and whose work duties are focused on proactive work and maintenance to the high-voltage lines. This crew will minimize disruptions to the system and improve the integrity and reliability of the electrical grid. The fleet for this crew is included in the FY 2020-21 capital program due to the amount of time it takes to procure these vehicles.
- Compensation/Benefits – Production: With Opt-In, and the decision to not operate as the Provider of Last Resort (POLR), LP&L anticipates completely exiting the power procurement and power generation business. This move greatly de-risks the operations of

the enterprise and transitions LP&L to a pure transmission and distribution utility.

- Compensation/Benefits – reduction in workforce: With Opt-In, the decision to not operate as the POLR, and the exit of power generation, LP&L has the ability now to begin training existing employees for new roles, and has the ability to manage the majority of decreases through attrition. The goal is to manage the downsizing of these departments in a manner that has the least impact on employees.
- Supplies / Maintenance / Other Charges / Scheduled Charges / Capital Outlay: For the most part, these categories are estimated to grow with inflation throughout the financial model time horizon.
- Professional Services/Training: Professional Services costs decrease from $9.00 million in FY 2020-21 to $8.36 million in FY 2021-22. This line item decreases primarily due to a reduction in legal expense following several years of work on the ERCOT integration, CCN cases, TCOS rate filing and purchased power negotiations. For the years beyond FY 2021-22, this category is estimated to grow with inflation.
- Reimbursement – City of Lubbock Utilities: The reimbursements for the City of Lubbock Utilities operations will be studied in detail as the structure of this organization changes from a non-opt-in entity (NOIE) format to a retail choice format. The future costs and reimbursements related to this portion of the organization and the reimbursement from the Other City Utilities is expected to change and will be studied in detail in FY 2020-21. The current model maintains historic levels of expense, which will be modified when studies are completed.

Fund Level Expenses

- Debt Service: The debt service for LP&L is anticipated to increase throughout the term of the financial model. Annual debt service increases from roughly $17.70 million in FY 2020-21 to roughly $37.61 million by FY 2025-26. This is driven largely by the issuance of an estimated $293.36 million in 20- and 30-year revenue bonds to fund the construction of transmission lines necessary for enhancing the reliability of the LP&L system, for the integration into ERCOT, and other major system costs. The new TCOS revenue stream covers the increased cost of a majority of that debt and eliminates the impact of those costs on LP&L customers.
- Capitalized Interest: This expense is related to the bonds that were issued in FY 2016-17 and FY 2017-18 where principal payments were deferred for transmission system improvements until the interconnection with ERCOT. Principal payments on those two issuances will not begin until FY 2021-22. Interest-only payments related to the transmission projects will be due every fiscal year, yet will be paid from the capitalized interest funds provided from bond proceeds (see the "Transfer from Debt Service Fund" row on the Financial Model).
- Indirect Cost Allocation: The transfer to the General Fund for indirect costs increases throughout the model in relation to projected inflation rates.
- PILOT: Historically, the PILOT transfer has been computed as one percent of metered revenues. In order to minimize the financial impact to the City's General Fund of Opt-In, the PILOT transfer calculation is adopted to change to a "cents-per-kilowatt hour" (¢/kWh) beginning in FY 2023-24. At this time, it is estimated that the calculation would be less than $1/10^{th}$ of a cent for the PILOT.
- FFE: See comments in the Financial Model: Funding Sources section above. The FFE transfer is elevated in FY 2020-21 due to the recognition of revenues related to the SPS hold harmless payment. The FFE returns to average levels beginning in FY 2021-22. FFE transfers and revenues match after Opt-In.
- Transfer to Capital Program: Beginning in FY 2021-22, many of the capital projects are funded with cash, with almost half of all projects being cash-funded. The financial model incorporates the objective of funding 35 percent of the capital program with cash and 65 percent with debt. Due to the significant increase of transmission assets in the near term, that ratio drops below that objective, but over the planning horizon (through FY 2025-26) rises to 27.6 percent cash funding and 72.4 percent debt funding.
- Transfer to Debt Service for General Fund CIP: The transfer remains fairly stable over the term of the financial model. The transfer is to reimburse the City's Debt Service Fund for LP&L's share of the Citizen's Tower and City of Lubbock Utilities' Customer Service Center.

General Reserve Policy and Reserves

- The City Council passed an ordinance on December 16, 2004, later amended on April 10, 2012, which provides for the creation of a General Reserve which is equal to three months revenue generated from all retail electric sales. Beginning in FY 2023-24, the financial model assumes the General Reserve policy requirement will increase to six months of revenue generated from all retail electric sales. This aligns more closely with other large municipal utilities across the state, and provides additional support to protect, and possibly enhance, the utility's credit ratings.

Lubbock Power & Light - Financial Model

	Amended	Budget	Forecast				
FUNDING SOURCES	FY 2019-20	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26
Interest Earnings	$ 1,479,901	776,689	850,184	862,366	860,286	867,888	867,783
Rentals and Recoveries	253,574	217,829	222,621	227,519	232,524	237,640	242,868
Sale of equipment/recycle scrap	112,701	127,603	130,411	133,280	136,212	139,209	142,271
Uncollectible Metered Revenue	-	(1,320,343)	(1,288,959)	(1,216,552)	-	-	-
General Consumers Metered	68,737,964	68,740,838	68,927,426	69,115,231	69,304,263	69,494,534	69,686,054
Power Cost Recovery Factor (PCRF)	150,131,731	163,088,007	180,890,366	166,662,473	70,213,977	57,932,736	58,684,390
SPS Hold Harmless Reserve Revenue Recognition	-	24,000,000	-	-	-	-	-
Franchise Fee Equivalent Revenue	10,367,876	12,150,820	11,791,934	11,136,302	11,365,257	11,378,896	11,392,550
Transmission Cost of Service (TCOS)	-	14,526,582	43,632,042	43,684,400	43,736,821	43,789,306	43,841,853
ERCOT Hold Harmless Payment	-	(7,333,333)	(22,000,000)	(22,000,000)	(22,000,000)	(22,000,000)	(14,666,667)
Fees and Charges	2,676,640	2,555,100	2,611,312	2,668,761	974,665	996,108	1,018,022
Outside Work Orders and Street Lights	982,293	865,098	884,130	903,581	923,459	943,775	964,538
Tampering Fees	55,168	52,299	53,449	54,625	55,827	57,055	58,310
Miscellaneous	176,976	183,661	187,701	191,831	-	-	-
Transfer from Debt Service Fund	3,103,050	3,103,050	1,551,525	-	-	-	-
Transfer from Other Funds	2,696,694	2,744,855	1,651,341	1,646,555	1,645,093	1,641,116	1,641,277
Total Revenue Sources	$ 240,774,566	284,478,753	290,095,484	274,070,370	177,448,385	165,478,261	173,873,251
Use of General Reserve	2,230,000	-	-	846	4,714	-	-
TOTAL FUNDING SOURCES	$ 243,004,566	284,478,753	290,095,484	274,071,217	177,453,099	165,478,261	173,873,251
DEPARTMENTAL EXPENSES							
Compensation*	$ 15,004,481	14,927,436	15,841,981	16,318,029	16,808,398	17,313,520	17,833,840
Benefits*	6,489,259	6,450,039	6,695,029	6,949,943	7,215,207	7,491,268	7,778,590
Supplies Less Purchased Power & Fuel*	1,094,160	1,055,245	1,063,628	1,081,667	1,102,644	1,121,747	1,143,713
Power Pass-Through Costs:							
Energy/Fuel	72,305,931	79,358,521	103,041,275	103,716,958	6,364,605	6,364,605	6,364,605
Energy/Fuel (LP&L Production)	10,666,976	10,647,507	10,414,385	10,396,861	750,739	771,653	793,198
Transmission	30,879,048	42,112,559	50,150,295	34,861,143	44,995,254	32,277,614	32,571,189
Capacity	36,287,892	30,961,504	17,278,283	17,684,388	18,100,038	18,525,457	18,960,875
SPS Hold Harmless Payment	-	24,000,000	-	-	-	-	-
Maintenance*	2,253,463	2,234,412	2,283,569	2,333,807	2,385,151	2,437,624	2,491,252
Professional/Training*	6,229,435	9,006,025	8,363,995	8,475,807	8,663,323	8,854,989	9,050,900
Other Charges*	1,472,774	1,316,869	1,460,225	1,492,121	1,524,714	1,558,020	1,592,055
Scheduled Charges*	3,804,073	4,199,233	4,291,616	4,386,031	4,482,524	4,581,140	4,681,925
Capital Outlay/Reimbursements*	55,400	26,000	26,572	27,157	27,754	28,365	28,989
Reimbursement - City of Lubbock Utilities	(6,014,288)	(5,800,763)	(6,803,528)	(6,860,518)	(6,371,468)	(6,228,041)	(6,409,904)
TOTAL DEPARTMENTAL EXPENSES	$ 180,528,605	220,494,586	214,107,325	200,863,394	106,048,884	95,097,961	96,881,227
FUND LEVEL EXPENSES							
Debt Service - Principal	$ 18,570,000	10,305,000	20,755,000	16,962,126	16,831,956	16,533,626	17,705,803
Debt Service - Interest	7,623,206	7,390,538	14,087,926	19,317,814	19,450,314	19,393,740	19,901,500
Capitalized Interest	3,103,050	3,103,050	1,551,525	-	-	-	-
Note Program Fees	496,415	134,519	4,500	-	-	-	-
Transmission System Inventory	-	1,570,016	-	-	-	-	-
Indirect Cost Allocation	1,266,838	1,742,355	1,780,687	1,819,862	1,859,899	1,900,817	1,942,635
Franchise Fee Equivalent - General Fund	10,943,485	12,791,442	12,490,890	11,788,885	11,365,257	11,378,896	11,392,550
Payment In Lieu of Property Tax	2,188,697	2,558,288	2,498,178	2,357,777	2,273,051	2,275,779	2,278,510
Transfer to Capital Program	17,145,000	22,023,600	19,650,000	19,740,000	18,400,000	17,205,000	22,065,000
Transfer to Debt Service for General Fund CIP	1,139,270	1,140,119	1,141,406	1,139,661	1,140,242	1,141,493	1,140,403
Miscellaneous	-	78,218	79,939	81,697	83,495	85,331	87,209
TOTAL FUND LEVEL EXPENSES	$ 62,475,961	62,837,146	74,040,050	73,207,823	71,404,215	69,914,682	76,513,609
TOTAL EXPENSES	$ 243,004,566	283,331,732	288,147,375	274,071,217	177,453,099	165,012,643	173,394,836
GENERAL RESERVE POLICY							
General Reserve Policy^	$ 57,309,393	66,994,916	65,402,432	61,728,501	68,937,465	69,403,082	69,881,497
GENERAL RESERVE CALCULATION							
Beginning General Reserve	$ 68,077,895	65,847,895	66,994,916	68,943,025	68,942,178	68,937,465	69,403,082
Budget Surplus/(Deficit)	(2,230,000)	1,147,021	1,948,108	(846)	(4,714)	465,618	478,415
TOTAL ESTIMATED GENERAL RESERVE	$ 65,847,895	66,994,916	68,943,025	68,942,178	68,937,465	69,403,082	69,881,497
GENERAL RESERVE EXCESS/(DEFICIT)	8,538,503	(0)	3,540,593	7,213,677	0	0	0

*Production costs are excluded from these expense categories and are included in the "Energy/Fuel - LP&L Production" line item within Power Pass-Through Costs.

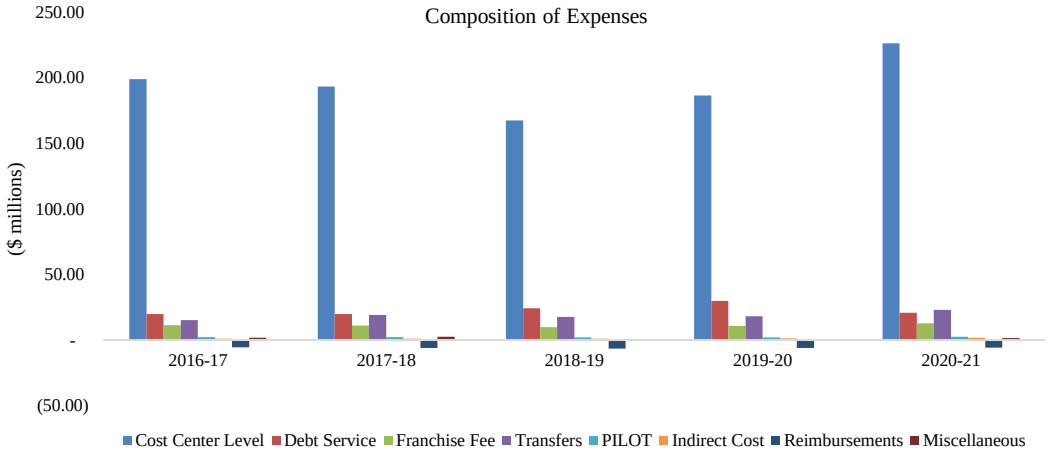
^Assumes increase of General Reserve Requirement from 3 months of metered revenues to 6 months of metered revenues upon entry to Retail Choice in FY 2023-24.

Lubbock Power & Light - Rates

PROJECTED RATE IMPACT	Actual FY 2019-20	Budget FY 2020-21	Forecast* FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26
Projected Base Rate Increase	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Residential Standard - Rate 1							
Service Availability	$ 8.07	$ 8.07	$ 8.07	$ 8.07	$ 8.07	$ 8.07	$ 8.07
Summer Energy (per kWh)	0.03381	0.03381	0.03381	0.03381	0.03381	0.03381	0.03381
Non-Summer Energy (per kWh)	0.03381	0.03381	0.03381	0.03381	0.03381	0.03381	0.03381
Residential All Electric - Rate 3							
Service Availability	8.07	8.07	8.07	8.07	8.07	8.07	8.07
Summer Energy (per kWh)	0.02921	0.02921	0.02921	0.02921	0.02921	0.02921	0.02921
Non-Summer Energy (per kWh)	0.02921	0.02921	0.02921	0.02921	0.02921	0.02921	0.02921
Residential Net Metering - Rate 5							
Service Availability	30.43	30.43	30.43	30.43	30.43	30.43	30.43
Summer Energy ≤1,000kWh (per kWh)	0.01292	0.01292	0.01292	0.01292	0.01292	0.01292	0.01292
Summer Energy >1,000kWh (per kWh)	0.02349	0.02349	0.02349	0.02349	0.02349	0.02349	0.02349
Non-Summer Energy ≤1,000kWh(per kWh)	0.00397	0.00397	0.00397	0.00397	0.00397	0.00397	0.00397
Non-Summer Energy >1,000kWh(per kWh)	0.01175	0.01175	0.01175	0.01175	0.01175	0.01175	0.01175
Small General - Rate 10							
Service Availability	13.55	13.55	13.55	13.55	13.55	13.55	13.55
Energy (per kWh)	0.01987	0.01987	0.01987	0.01987	0.01987	0.01987	0.01987
Small General Net Metering - Rate 11							
Service Availability	28.77	28.77	28.77	28.77	28.77	28.77	28.77
Energy <1,000kWh (per kWh)	0.00076	0.00076	0.00076	0.00076	0.00076	0.00076	0.00076
Energy >1,000kWh (per kWh)	0.01878	0.01878	0.01878	0.01878	0.01878	0.01878	0.01878
Large School - Rate 15							
Service Availability	39.74	39.74	39.74	39.74	39.74	39.74	39.74
Energy (per kWh)	0.00049	0.00049	0.00049	0.00049	0.00049	0.00049	0.00049
Demand (per kW)	5.77410	5.77410	5.77410	5.77410	5.77410	5.77410	5.77410
Secondary Commercial and Net Metering- Rate 16							
Service Availability	28.56	28.56	28.56	28.56	28.56	28.56	28.56
Energy (per kWh)	0.00080	0.00080	0.00080	0.00080	0.00080	0.00080	0.00080
Summer Demand (per kW)	8.00922	8.00922	8.00922	8.00922	8.00922	8.00922	8.00922
Non-Summer Demand (per kW)	4.28400	4.28400	4.28400	4.28400	4.28400	4.28400	4.28400
Primary Commercial - Rate 16P							
Service Availability	310.44	310.44	310.44	310.44	310.44	310.44	310.44
Energy (per kWh)	0.00057	0.00057	0.00057	0.00057	0.00057	0.00057	0.00057
Demand (per kW)	5.15323	5.15323	5.15323	5.15323	5.15323	5.15323	5.15323
Large Municipal - Rate 17							
Service Availability	49.67	49.67	49.67	49.67	49.67	49.67	49.67
Energy (per kWh)	0.00066	0.00066	0.00066	0.00066	0.00066	0.00066	0.00066
Demand (per kW)	5.24014	5.24014	5.24014	5.24014	5.24014	5.24014	5.24014
Street Lighting - Rate 18							
Energy (per kWh)	0.04781	0.04781	0.04781	0.04781	0.04781	0.04781	0.04781
General Religious - Rate 19							
Service Availability	16.77	16.77	16.77	16.77	16.77	16.77	16.77
Energy (per kWh)	0.01847	0.01847	0.01847	0.01847	0.01847	0.01847	0.01847
Small Municipal & School - Rate 21							
Service Availability	12.98	12.98	12.98	12.98	12.98	12.98	12.98
Energy (per kWh)	0.01639	0.01639	0.01639	0.01639	0.01639	0.01639	0.01639

*The financial model does not currently anticipate base rate adjustments throughout the forecast years. LP&L plans to undertake a comprehensive cost of service (COS) study after one year of AMI meter information is collected and just prior to the ERCOT transition in 2021. LP&L does not expect the COS to increase rates overall, but may shift costs from one rate class to another.

Lubbock Power & Light - Staffing



ADMINISTRATION	Actual	Actual	Actual	Amended	Budget	Change
STAFFING	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	from Amended
Administration	13	14	17	17	17	-
Regulatory Compliance	6	6	6	6	5	(1)
Legal	3	3	3	3	3	-
Conservation And Education	-	-	2	2	3	1
TOTAL ADMINISTRATION	22	23	28	28	28	-

PRODUCTION	Actual	Actual	Actual	Amended	Budget	Change
STAFFING	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	from Amended
Production Operations	8	7	6	6	6	-
Production Cooke Station	-	-	-	-	-	-
Production Brandon Station	7	4	4	-	-	-
Production Massengale Station	29	26	22	26	26	-
TOTAL PRODUCTION	44	37	32	32	32	-

DISTRIBUTION	Actual	Actual	Actual	Amended	Budget	Change
STAFFING	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	from Amended
Distribution Supervision & Eng.	25	26	7	7	7	-
Underground Lines	27	28	29	34	34	-
Overhead Lines	27	27	32	32	32	-
Distribution Load Dispatching	11	13	14	14	14	-
Distribution Customer Svc.	13	13	12	12	12	-
Geographic Information Systems	-	-	8	8	8	-
Distribution Substations	12	14	14	14	14	-
Distribution Eng. & Constr. Mgmt.	-	-	9	9	9	-
Distribution Meter Shop	6	6	6	6	6	-
Distribution Street Lights	3	7	8	10	10	-
TOTAL DISTRIBUTION	124	134	139	146	146	-

TRANSMISSION	Actual	Actual	Actual	Amended	Budget	Change
STAFFING	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	from Amended
Transmission Supervision & Eng.	4	6	8	8	8	-
TOTAL TRANSMISSION	4	6	8	8	8	-

CUSTOMER SERVICE	Actual	Actual	Actual	Amended	Budget	Change
STAFFING	FY 2016-17	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	from Amended
Field Services	16	16	21	29	32	3
Meter Reading	21	22	17	6	-	(6)
Customer Information Systems	7	7	9	9	9	-
Payment Processing	6	6	-	-	-	-
Customer Service	49	54	56	56	56	-
Collections	10	19	19	21	21	-
TOTAL CUSTOMER SERVICE	109	124	122	121	118	(3)
TOTAL STAFFING	303	324	329	335	332	(3)

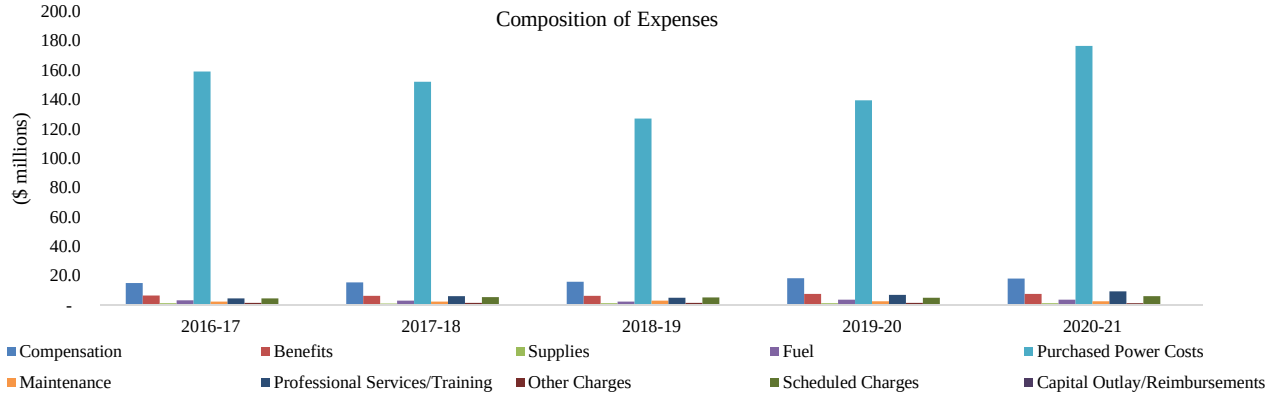
Lubbock Power & Light - Fund Overview

FUNDING SOURCES	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Interest Earnings	$ 613,752	1,384,251	1,700,652	1,479,901	776,689	(703,212)	(47.5)
Rentals and Recoveries	314,026	1,147,482	1,207,689	253,574	217,829	(35,745)	(14.1)
Sale of equipment/recycle scrap	77,461	151,088	110,054	112,701	127,603	14,903	13.2
Uncollectable Metered Revenue	-	-	-	-	(1,320,343)	(1,320,343)	-
General Consumers Metered	64,581,198	69,128,477	67,524,201	68,737,964	68,740,838	2,874	0.0
Power Cost Recovery Factor (PCRF)	160,688,685	152,203,645	128,960,928	150,131,731	163,088,007	12,956,275	8.6
Franchise Fee Equivalent Revenue	10,644,888	10,539,368	9,337,517	10,367,876	12,150,820	1,782,944	17.2
Transmission Cost of Service (TCOS)	-	-	-	-	14,526,582	14,526,582	-
SPS Hold Harmless Reserve Revenue Recognition	-	-	-	-	24,000,000	24,000,000	-
ERCOT Hold Harmless Payment	-	-	-	-	(7,333,333)	(7,333,333)	-
Unit Contingent Sales	420,151	423,064	(69,960)	-	-	-	-
Power Marketing Sales	4,197,324	4,519,775	3,071,940	-	-	-	-
Fees and Charges	3,194,787	2,610,289	2,514,333	2,676,640	2,555,100	(121,540)	(4.5)
Outside Work Orders and Street Lights	927,279	624,454	864,402	982,293	865,098	(117,195)	(11.9)
Tampering Fees	61,122	53,800	51,173	55,168	52,299	(2,869)	(5.2)
Miscellaneous	311,304	222,470	244,441	176,976	183,661	6,684	3.8
Transfer from Debt Service Fund	-	411,759	2,280,536	3,103,050	3,103,050	-	-
Transfer from Other Funds	93,243	1,306,808	1,315,028	2,696,694	2,744,855	48,161	1.8
Total Revenue Sources	$ 246,125,218	244,726,731	219,112,934	240,774,566	284,478,753	43,704,186	18.2
Utilization of General Reserve	-	-	-	2,230,000	-	-	(100.0)
TOTAL FUNDING SOURCES	$ 246,125,218	244,726,731	219,112,934	243,004,566	284,478,753	43,704,186	17.1

DEPARTMENT LEVEL EXPENSES	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 15,019,825	15,513,585	15,820,383	18,255,952	17,980,864	(275,088)	(1.5)
Benefits	6,502,755	6,300,968	6,395,597	7,654,397	7,567,387	(87,011)	(1.1)
Supplies	1,332,851	1,110,774	1,303,218	1,292,229	1,254,297	(37,932)	(2.9)
Fuel	3,335,631	2,963,241	2,303,279	-	-	-	-
Energy/Fuel	88,530,528	77,099,763	64,438,776	76,057,968	83,090,503	7,032,535	9.2
Transmission	24,356,993	28,569,248	27,441,676	30,879,048	42,112,559	11,233,511	36.4
Capacity	46,113,253	46,291,784	35,085,238	36,287,892	30,961,504	(5,326,388)	(14.7)
SPS Hold Harmless Payment	-	-	-	-	24,000,000	24,000,000	-
Maintenance	2,434,483	2,399,163	2,972,963	2,623,885	2,564,205	(59,680)	(2.3)
Professional Services/Training	4,634,639	6,032,318	5,065,242	6,970,020	9,402,095	2,432,076	34.9
Other Charges	1,473,569	1,428,081	1,514,036	1,522,039	1,335,869	(186,170)	(12.2)
Scheduled Charges	4,623,009	5,368,571	5,110,567	4,944,062	6,000,067	1,056,004	21.4
Capital Outlay/Reimbursements	459,366	240,556	80,082	55,400	26,000	(29,400)	(53.1)
Reimbursement - Utility Collections	(5,555,509)	(5,921,050)	(6,345,949)	(6,014,288)	(5,800,763)	213,524	(3.6)
TOTAL DEPARTMENT LEVEL EXPENSES	$ 193,261,394	187,397,003	161,185,108	180,528,605	220,494,586	39,965,981	22.1

FUND LEVEL EXPENSES	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Debt Service	$ 19,926,328	19,553,723	22,019,432	26,193,206	17,695,538	(8,497,668)	(32.4)
Capitalized Interest	-	411,759	2,280,536	3,103,050	3,103,050	-	-
Note Program Fees	-	-	-	496,415	134,519	(361,896)	(72.9)
Transmission System Inventory	-	-	-	-	1,570,016	1,570,016	-
Transfer to Debt Service Reserve Fund	-	800,605	-	-	-	-	-
Indirect Cost Allocation	1,066,407	1,135,647	1,155,378	1,266,838	1,742,355	475,517	37.5
Franchise Fee Equivalent	11,260,270	11,060,010	9,818,831	10,943,485	12,791,442	1,847,957	16.9
Payment In Lieu of Property Tax	2,252,054	2,212,002	1,963,766	2,188,697	2,558,288	369,591	16.9
Transfer to Capital Program	15,240,000	15,950,000	15,995,000	17,145,000	22,023,600	4,878,600	28.5
Transfer to Debt Service for General Fund CIP	-	2,478,673	1,630,198	1,139,270	1,140,119	849	0.1
Miscellaneous	1,791,040	2,505,147	481,452	-	78,218	78,218	-
TOTAL FUND LEVEL EXPENSES	$ 51,536,099	56,107,567	55,344,593	62,475,961	62,837,146	361,185	0.6
TOTAL EXPENSES	$ 244,797,493	243,504,569	216,529,701	243,004,566	283,331,732	40,327,166	16.6

Lubbock Power & Light - Department Overview



EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 15,019,825	15,513,585	15,820,383	18,255,952	17,980,864	(275,088)	(1.5)
Benefits	6,502,755	6,300,968	6,395,597	7,654,397	7,567,387	(87,011)	(1.1)
Supplies	1,332,851	1,110,774	1,303,218	1,292,229	1,254,297	(37,932)	(2.9)
Fuel	3,335,631	2,963,241	2,303,279	3,752,037	3,731,982	(20,055)	(0.5)
Purchased Power Costs	159,000,774	151,960,794	126,965,690	139,472,872	176,432,584	36,959,712	26.5
Maintenance	2,434,483	2,399,163	2,972,963	2,623,885	2,564,205	(59,680)	(2.3)
Professional Services/Training	4,634,639	6,032,318	5,065,242	6,970,020	9,402,095	2,432,076	34.9
Other Charges	1,473,569	1,428,081	1,514,036	1,522,039	1,335,869	(186,170)	(12.2)
Scheduled Charges	4,623,009	5,368,571	5,110,567	4,944,062	6,000,067	1,056,004	21.4
Capital Outlay/Reimbursements	459,366	240,556	80,082	55,400	26,000	(29,400)	(53.1)
Reimbursement - Utility Collections	(5,555,509)	(5,921,050)	(6,345,949)	(6,014,288)	(5,800,763)	213,524	(3.6)
TOTAL EXPENSES BY CATEGORY	$ 193,261,394	187,397,003	161,185,108	180,528,605	220,494,586	39,965,981	22.1

ADMINISTRATION

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Administration	$ 2,681,348	2,564,697	3,104,992	3,213,600	2,900,179	(313,421)	(9.8)
Regulatory Compliance	485,214	564,697	616,177	598,878	907,411	308,533	51.5
Legal	873,136	1,050,601	967,547	1,115,312	1,933,298	817,985	73.3
Conservation And Education	382,638	456,667	327,316	568,941	630,292	61,351	10.8
TOTAL ADMINISTRATION	$ 4,422,335	4,636,662	5,016,033	5,496,731	6,371,180	874,449	15.9

POWER PASS-THROUGH

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Production Operations	$ 896,881	883,833	960,977	1,058,205	943,824	(114,381)	(10.8)
Purchased Power	159,000,774	151,960,794	128,120,414	139,472,872	176,432,584	36,959,712	26.5
Production Cooke Station	497,331	695,257	433,495	980,857	956,567	(24,290)	(2.5)
Production Brandon Station	1,390,559	1,227,011	870,799	1,055,969	1,683,170	627,200	59.4
Production Massengale Station	7,403,542	6,881,470	5,138,697	7,245,568	7,063,946	(181,622)	(2.5)
Reg Market Admin & Compliance	323,430	318,258	209,991	326,377	-	(326,377)	(100.0)
TOTAL POWER PASS-THROUGH	$ 169,512,518	161,966,623	135,734,373	150,139,848	187,080,091	36,940,243	24.6

DISTRIBUTION

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Distribution Supervision & Eng.	$ 1,765,583	2,086,987	743,090	832,097	613,540	(218,558)	(26.3)
Underground Lines	2,297,445	2,197,702	2,471,896	2,682,640	2,961,222	278,582	10.4
Overhead Lines	2,317,711	2,007,222	2,681,800	2,782,014	2,745,299	(36,715)	(1.3)
Distribution Load Dispatching	733,011	1,023,776	1,003,083	1,305,282	1,928,666	623,383	47.8
Distribution Customer Svc.	3,322,121	3,307,727	3,493,801	3,618,595	3,504,974	(113,621)	(3.1)
Geographic Information Systems	-	-	509,057	879,789	870,777	(9,012)	(1.0)
Distribution Substations	950,265	847,066	991,866	1,092,966	1,295,249	202,283	18.5
Distribution Eng. & Constr. Mgmt.	-	-	424,772	510,340	490,445	(19,895)	(3.9)
Distribution Meter Shop	728,799	726,317	704,990	726,421	687,889	(38,532)	(5.3)
Distribution Street Lights	513,360	1,094,813	1,193,477	1,279,331	1,469,088	189,757	14.8
TOTAL DISTRIBUTION	$ 12,628,294	13,291,611	14,217,833	15,709,476	16,567,148	857,672	5.5

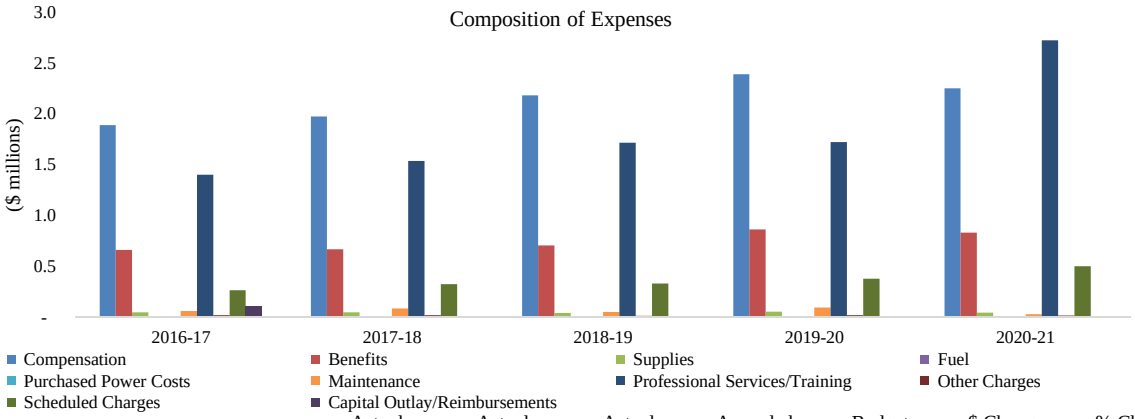
TRANSMISSION

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Transmission Supervision & Eng.	$ 1,276,177	1,808,362	1,098,982	1,146,673	1,127,787	(18,886)	(1.6)
Transmission Overhead Lines	100,108	44,820	48,430	160,587	124,630	(35,957)	(22.4)
Transmission Load Dispatching	477,457	516,726	602,376	912,550	1,530,826	618,276	67.8
Transmission Substation	542,633	247,968	451,351	651,815	456,776	(195,039)	(29.9)
TOTAL TRANSMISSION	$ 2,396,375	2,617,877	2,201,139	2,871,625	3,240,020	368,394	12.8

CUSTOMER SERVICE

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Field Services	$ 1,183,444	998,644	1,303,892	2,002,054	2,292,957	290,903	14.5
Meter Reading	1,351,941	1,519,307	1,197,415	730,158	-	(730,158)	(100.0)
Customer Information Systems	1,493,877	1,864,824	3,737,656	5,109,465	5,662,616	553,151	10.8
Payment Processing	2,225,092	2,890,870	-	-	-	-	-
Customer Service	2,771,688	2,724,671	2,924,972	3,128,139	3,599,815	471,676	15.1
Collections	831,339	806,964	1,197,744	1,355,395	1,481,523	126,127	9.3
Reimbursement - Utility Collections	(5,555,509)	(5,921,050)	(6,345,949)	(6,014,288)	(5,800,763)	213,524	(3.6)
TOTAL CUSTOMER SERVICE	$ 4,301,872	4,884,230	4,015,731	6,310,924	7,236,148	925,224	14.7

Lubbock Power & Light - Administration

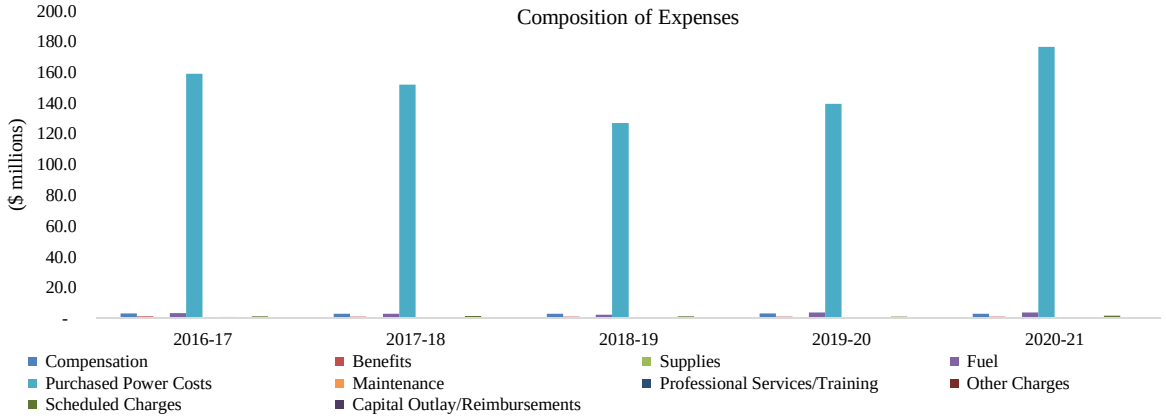


EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 1,885,583	1,972,214	2,179,590	2,387,221	2,246,788	(140,434)	(5.9)
Benefits	659,369	665,679	700,759	858,500	829,011	(29,489)	(3.4)
Supplies	44,067	45,248	38,555	50,814	41,207	(9,607)	(18.9)
Fuel	-	-	-	-	-	-	-
Purchased Power Costs	-	-	-	-	-	-	-
Maintenance	55,358	81,595	47,694	90,040	25,045	(64,995)	(72.2)
Professional Services/Training	1,396,659	1,533,518	1,712,585	1,718,009	2,721,252	1,003,243	58.4
Other Charges	14,707	16,200	9,147	16,390	11,290	(5,100)	(31.1)
Scheduled Charges	261,148	322,209	327,702	375,758	496,587	120,829	32.2
Capital Outlay/Reimbursements	105,445	-	-	-	-	-	-
TOTAL EXPENSES BY CATEGORY	$ 4,422,335	4,636,662	5,016,033	5,496,731	6,371,180	874,448	15.9

ADMINISTRATION

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Administration	$ 2,681,348	2,564,697	3,104,992	3,213,600	2,900,179	(313,421)	(9.8)
Regulatory Compliance	485,214	564,697	616,177	598,878	907,411	308,533	51.5
Legal	873,136	1,050,601	967,547	1,115,312	1,933,298	817,985	73.3
Conservation And Education	382,638	456,667	327,316	568,941	630,292	61,351	10.8
TOTAL ADMINISTRATION	$ 4,422,335	4,636,662	5,016,033	5,496,731	6,371,180	874,448	15.9

Lubbock Power & Light - Power Pass-Through

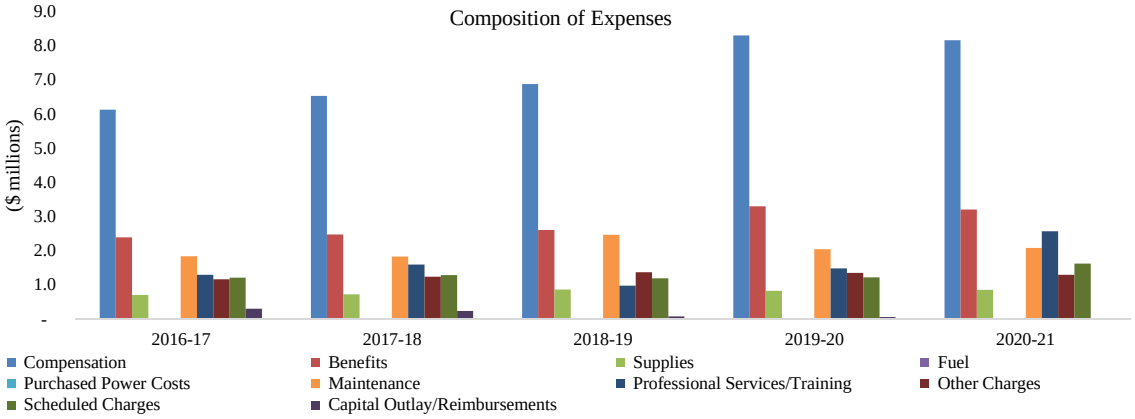


EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 3,196,363	3,074,082	2,884,302	3,251,472	3,053,428	(198,043)	(6.1)
Benefits	1,282,563	1,163,772	1,033,755	1,165,138	1,117,348	(47,791)	(4.1)
Supplies	177,901	160,949	255,879	198,069	199,052	983	0.5
Fuel	3,335,631	2,963,241	2,303,279	3,752,037	3,731,982	(20,055)	(0.5)
Purchased Power Costs	159,000,774	151,960,794	126,965,690	139,472,872	176,432,584	36,959,712	26.5
Maintenance	420,000	385,607	285,573	370,422	329,793	(40,629)	(11.0)
Professional Services/Training	805,530	723,806	672,000	740,585	396,070	(344,515)	(46.5)
Other Charges	35,032	8,329	12,769	49,265	19,000	(30,265)	(61.4)
Scheduled Charges	1,223,733	1,526,044	1,321,125	1,139,989	1,800,834	660,845	58.0
Capital Outlay/Reimbursements	34,990	-	-	-	-	-	-
TOTAL EXPENSES BY CATEGORY	$ 169,512,518	161,966,623	135,734,373	150,139,848	187,080,091	36,940,243	24.6

POWER PASS-THROUGH

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Production Operations	$ 896,881	883,833	960,977	1,058,205	943,824	(114,381)	(10.8)
Purchased Power	159,000,774	151,960,794	128,120,414	139,472,872	176,432,584	36,959,712	26.5
Production Cooke Station	497,331	695,257	433,495	980,857	956,567	(24,290)	(2.5)
Production Brandon Station	1,390,559	1,227,011	870,799	1,055,969	1,683,170	627,200	59.4
Production Massengale Station	7,403,542	6,881,470	5,138,697	7,245,568	7,063,946	(181,622)	(2.5)
Reg Market Admin & Compliance	323,430	318,258	209,991	326,377	-	(326,377)	(100.0)
TOTAL POWER PASS-THROUGH	$ 169,512,518	161,966,623	135,734,373	150,139,848	187,080,091	36,940,243	24.6

Lubbock Power & Light - Distribution & Transmission



EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 6,125,665	6,527,103	6,869,874	8,293,735	8,154,311	(139,424)	(1.7)
Benefits	2,387,490	2,475,097	2,607,391	3,296,513	3,199,843	(96,670)	(2.9)
Supplies	705,423	728,225	868,150	831,308	858,901	27,594	3.3
Fuel	-	-	-	-	-	-	-
Purchased Power Costs	-	-	-	-	-	-	-
Maintenance	1,836,473	1,826,380	2,466,428	2,048,184	2,081,149	32,966	1.6
Professional Services/Training	1,290,182	1,596,159	972,659	1,484,764	2,566,158	1,081,394	72.8
Other Charges	1,168,223	1,234,498	1,366,006	1,354,438	1,295,079	(59,359)	(4.4)
Scheduled Charges	1,211,116	1,281,470	1,188,384	1,216,760	1,625,726	408,966	33.6
Capital Outlay/Reimbursements	300,097	240,556	80,082	55,400	26,000	(29,400)	(53.1)
TOTAL EXPENSES BY CATEGORY	$ 15,024,669	15,909,488	16,418,972	18,581,102	19,807,168	1,226,066	6.6

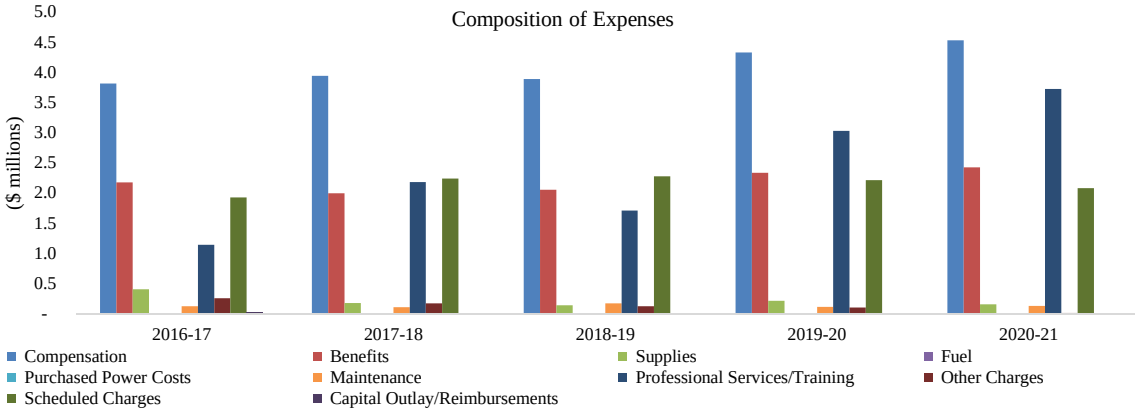
DISTRIBUTION

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Distribution Supervision & Eng.	$ 1,765,583	2,086,987	743,090	832,097	613,540	(218,558)	(26.3)
Underground Lines	2,297,445	2,197,702	2,471,896	2,682,640	2,961,222	278,582	10.4
Overhead Lines	2,317,711	2,007,222	2,681,800	2,782,014	2,745,299	(36,715)	(1.3)
Distribution Load Dispatching	733,011	1,023,776	1,003,083	1,305,282	1,928,666	623,383	47.8
Distribution Customer Svc.	3,322,121	3,307,727	3,493,801	3,618,595	3,504,974	(113,621)	(3.1)
Geographic Information Systems	-	-	509,057	879,789	870,777	(9,012)	(1.0)
Distribution Substations	950,265	847,066	991,866	1,092,966	1,295,249	202,283	18.5
Distribution Eng. & Constr. Mgmt.	-	-	424,772	510,340	490,445	(19,895)	(3.9)
Distribution Meter Shop	728,799	726,317	704,990	726,421	687,889	(38,532)	(5.3)
Distribution Street Lights	513,360	1,094,813	1,193,477	1,279,331	1,469,088	189,757	14.8
TOTAL DISTRIBUTION	$ 12,628,294	13,291,611	14,217,833	15,709,476	16,567,148	857,672	5.5

TRANSMISSION

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Transmission Supervision & Eng.	$ 1,276,177	1,808,362	1,098,982	1,146,673	1,127,787	(18,886)	(1.6)
Transmission Overhead Lines	100,108	44,820	48,430	160,587	124,630	(35,957)	(22.4)
Transmission Load Dispatching	477,457	516,726	602,376	912,550	1,530,826	618,276	67.8
Transmission Substation	542,633	247,968	451,351	651,815	456,776	(195,039)	(29.9)
TOTAL TRANSMISSION	$ 2,396,375	2,617,877	2,201,139	2,871,625	3,240,020	368,394	12.8

Lubbock Power & Light - Customer Service



EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 3,812,214	3,940,186	3,886,617	4,323,524	4,526,337	202,812	4.7
Benefits	2,173,334	1,996,421	2,053,693	2,334,246	2,421,185	86,939	3.7
Supplies	405,460	176,353	140,634	212,038	155,137	(56,902)	(26.8)
Fuel	-	-	-	-	-	-	-
Purchased Power Costs	-	-	-	-	-	-	-
Maintenance	122,652	105,582	173,269	115,239	128,218	12,978	11.3
Professional Services/Training	1,142,268	2,178,835	1,707,998	3,026,662	3,718,615	691,954	22.9
Other Charges	255,607	169,055	126,114	101,946	10,500	(91,446)	(89.7)
Scheduled Charges	1,927,012	2,238,849	2,273,355	2,211,555	2,076,920	(134,636)	(6.1)
Capital Outlay/Reimbursements	18,835	-	-	-	-	-	-
TOTAL EXPENSES BY CATEGORY	$ 9,857,381	10,805,280	10,361,679	12,325,211	13,036,911	711,700	5.8

CUSTOMER SERVICE

EXPENSES BY FUNCTION	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Field Services	$ 1,183,444	998,644	1,303,892	2,002,054	2,292,957	290,903	14.5
Meter Reading	1,351,941	1,519,307	1,197,415	730,158	-	(730,158)	(100.0)
Customer Information Systems	1,493,877	1,864,824	3,737,656	5,109,465	5,662,616	553,151	10.8
Payment Processing	2,225,092	2,890,870	-	-	-	-	-
Customer Service	2,771,688	2,724,671	2,924,972	3,128,139	3,599,815	471,676	15.1
Collections	831,339	806,964	1,197,744	1,355,395	1,481,523	126,127	9.3
TOTAL CUSTOMER SERVICE	$ 9,857,381	10,805,280	10,361,679	12,325,211	13,036,911	711,700	5.8

*This page excludes the reimbursements from the Other City Utilities, which is shown on the Department Overview summary.

Lubbock Power & Light - Department Expenses

Administration

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 1,372,705	1,405,610	1,559,349	1,621,158	1,522,361	(98,797)	(6.1)
Benefits	482,031	471,006	508,725	582,895	553,503	(29,392)	(5.0)
Supplies	34,840	35,365	29,231	37,720	26,841	(10,879)	(28.8)
Maintenance	51,116	73,559	37,034	87,000	22,000	(65,000)	(74.7)
Professional Services/Training	399,125	317,049	694,835	555,263	354,413	(200,850)	(36.2)
Other Charges	13,663	13,570	7,050	11,040	7,540	(3,500)	(31.7)
Scheduled Charges	222,423	248,539	268,768	318,525	413,521	94,996	29.8
Capital Outlay/Reimbursements	105,445	-	-	-	-	-	-
TOTAL ADMINISTRATION	$ 2,681,348	2,564,697	3,104,992	3,213,601	2,900,179	(313,422)	(9.8)

Regulatory Compliance

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 186,933	223,520	257,273	229,493	219,433	(10,060)	(4.4)
Benefits	73,434	86,620	86,045	88,559	85,097	(3,462)	(3.9)
Supplies	8,513	6,319	7,948	8,774	10,136	1,362	15.5
Maintenance	4,242	8,036	10,660	3,040	2,295	(745)	(24.5)
Professional Services/Training	183,634	202,329	214,641	229,242	535,494	306,252	133.6
Other Charges	197	193	487	350	250	(100)	(28.6)
Scheduled Charges	28,259	37,680	39,124	39,420	54,706	15,286	38.8
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL REGULATORY COMPLIANCE	$ 485,214	564,697	616,177	598,878	907,411	308,533	51.5

Legal

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 287,982	304,700	322,459	394,319	286,516	(107,804)	(27.3)
Benefits	89,458	94,353	91,785	126,374	101,511	(24,863)	(19.7)
Supplies	393	3,085	1,026	3,000	3,080	80	2.7
Maintenance	-	-	-	-	-	-	-
Professional Services/Training	483,991	615,982	534,758	576,943	1,516,410	939,467	162.8
Other Charges	847	2,436	1,610	-	1,000	1,000	-
Scheduled Charges	10,465	30,045	15,908	14,675	24,781	10,106	68.9
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL LEGAL	$ 873,136	1,050,601	967,547	1,115,312	1,933,298	817,985	73.3

Conservation And Education

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 37,962	38,385	40,509	142,251	218,478	76,227	53.6
Benefits	14,446	13,700	14,204	60,671	88,900	28,229	46.5
Supplies	320	479	350	1,320	1,150	(170)	(12.9)
Maintenance	-	-	-	-	750	750	-
Professional Services/Training	329,909	398,158	268,351	356,561	314,935	(41,626)	(11.7)
Other Charges	-	-	-	5,000	2,500	(2,500)	(50.0)
Scheduled Charges	-	5,946	3,903	3,138	3,579	441	14.1
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL CONSERVATION AND EDUCATION	$ 382,638	456,667	327,316	568,941	630,292	61,351	10.8

Production Operations

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 564,876	577,317	592,410	706,409	586,207	(120,201)	(17.0)
Benefits	236,510	211,869	202,352	241,404	213,811	(27,593)	(11.4)
Supplies	9,921	5,857	6,580	8,950	7,750	(1,200)	(13.4)
Maintenance	5,541	6,793	2,062	6,536	7,298	762	11.7
Professional Services/Training	57,922	57,057	62,138	79,100	76,400	(2,700)	(3.4)
Other Charges	12,374	4,557	1,484	3,665	3,900	235	6.4
Scheduled Charges	9,737	20,383	93,951	12,141	48,457	36,316	299.1
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL PRODUCTION OPERATIONS	$ 896,881	883,833	960,977	1,058,205	943,824	(114,381)	(10.8)

Purchased Power

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ -	-	-	-	-	-	-
Benefits	-	-	-	-	-	-	-
Supplies	-	-	-	-	-	-	-
Fuel	-	-	1,154,724	-	-	-	-
Purchased Power Costs	159,000,774	151,960,794	126,965,690	139,472,872	176,432,584	36,959,712	26.5
Maintenance	-	-	-	-	-	-	-
Professional Services/Training	-	-	-	-	-	-	-
Other Charges	-	-	-	-	-	-	-
Scheduled Charges	-	-	-	-	-	-	-
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL PURCHASED POWER	$ 159,000,774	151,960,794	128,120,414	139,472,872	176,432,584	36,959,712	26.5

Production Cooke Station

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ (65,595)	180,694	72,707	137,106	156,190	19,085	13.9
Benefits	95,890	72,556	30,355	51,324	58,314	6,991	13.6
Supplies	18,862	17,271	24,975	17,544	18,544	1,000	5.7
Fuel	-	-	-	336,843	156,939	(179,904)	(53.4)
Maintenance	47,317	70,592	49,631	94,288	55,354	(38,934)	(41.3)
Professional Services/Training	130,400	10,410	84,340	70,000	45,650	(24,350)	(34.8)
Other Charges	4,698	838	1,828	9,000	4,500	(4,500)	(50.0)
Scheduled Charges	265,760	342,895	169,661	264,753	461,076	196,323	74.2
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL PRODUCTION COOKE STATION	$ 497,331	695,257	433,495	980,857	956,567	(24,290)	(2.5)

Production Brandon Station

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 402,966	297,750	328,652	298,426	287,288	(11,138)	(3.7)
Benefits	160,466	129,800	120,851	111,167	108,611	(2,556)	(2.3)
Supplies	14,517	18,438	23,624	21,300	20,900	(400)	(1.9)
Fuel	452,642	383,251	48,712	304,636	784,695	480,059	157.6
Maintenance	105,673	131,886	94,962	84,579	88,821	4,241	5.0
Professional Services/Training	27,881	26,898	21,759	32,000	45,400	13,400	41.9
Other Charges	4,584	746	969	22,900	2,500	(20,400)	(89.1)
Scheduled Charges	221,829	238,242	231,270	180,962	344,956	163,994	90.6
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL PRODUCTION BRANDON STATION	$ 1,390,559	1,227,011	870,799	1,055,969	1,683,170	627,200	59.4

Production Massengale Station

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 2,294,117	2,018,322	1,890,532	2,109,531	2,023,743	(85,788)	(4.1)
Benefits	789,698	749,546	680,198	761,244	736,611	(24,632)	(3.2)
Supplies	134,601	119,391	200,701	150,275	151,858	1,583	1.1
Fuel	2,882,989	2,579,990	1,099,843	3,110,558	2,790,348	(320,210)	(10.3)
Maintenance	261,469	176,336	138,919	185,018	178,320	(6,698)	(3.6)
Professional Services/Training	265,896	311,174	293,772	233,108	228,620	(4,488)	(1.9)
Other Charges	13,376	2,188	8,489	13,700	8,100	(5,600)	(40.9)
Scheduled Charges	726,407	924,524	826,243	682,134	946,346	264,212	38.7
Capital Outlay/Reimbursements	34,990	-	-	-	-	-	-
TOTAL PRODUCTION MASSENGALE STATION	$ 7,403,542	6,881,470	5,138,697	7,245,568	7,063,946	(181,622)	(2.5)

Reg Market Admin & Compliance

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ -	-	-	-	-	-	-
Benefits	-	-	-	-	-	-	-
Supplies	-	(8)	-	-	-	-	-
Maintenance	-	-	-	-	-	-	-
Professional Services/Training	323,430	318,266	209,991	326,377	-	(326,377)	(100.0)
Other Charges	-	-	-	-	-	-	-
Scheduled Charges	-	-	-	-	-	-	-
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL REG MARKET ADMIN & COMPLIANCE	$ 323,430	318,258	209,991	326,377	-	(326,377)	(100.0)

Distribution Supervision & Eng.

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 905,962	1,050,839	265,899	385,648	308,194	(77,453)	(20.1)
Benefits	359,197	395,573	145,638	153,293	121,539	(31,754)	(20.7)
Supplies	33,061	52,082	34,558	14,880	22,711	7,831	52.6
Maintenance	45,146	27,501	19,303	16,659	16,680	21	0.1
Professional Services/Training	136,184	61,308	40,206	64,700	49,635	(15,065)	(23.3)
Other Charges	21,332	50,236	25,773	10,950	8,400	(2,550)	(23.3)
Scheduled Charges	264,701	449,447	211,713	185,967	86,380	(99,587)	(53.6)
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL DISTRIBUTION SUPERVISION & ENG.	$ 1,765,583	2,086,987	743,090	832,097	613,540	(218,558)	(26.3)

Underground Lines

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 975,182	1,003,015	985,855	1,238,268	1,407,738	169,470	13.7
Benefits	370,912	394,017	394,465	512,169	570,306	58,137	11.4
Supplies	183,042	179,982	215,873	221,119	209,268	(11,850)	(5.4)
Maintenance	478,525	415,636	522,738	488,917	518,098	29,181	6.0
Professional Services/Training	32,057	38,515	51,336	79,512	66,597	(12,915)	(16.2)
Other Charges	1,653	2,688	92,891	15,155	2,500	(12,655)	(83.5)
Scheduled Charges	198,480	129,099	168,159	117,500	186,715	69,214	58.9
Capital Outlay/Reimbursements	57,595	34,752	40,579	10,000	-	(10,000)	(100.0)
TOTAL UNDERGROUND LINES	$ 2,297,445	2,197,702	2,471,896	2,682,640	2,961,222	278,582	10.4

Overhead Lines

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 786,295	685,985	980,547	1,198,772	1,082,959	(115,813)	(9.7)
Benefits	304,364	281,386	387,325	489,338	452,259	(37,080)	(7.6)
Supplies	221,914	218,310	227,088	223,180	241,351	18,171	8.1
Maintenance	556,159	578,639	920,968	643,704	659,912	16,208	2.5
Professional Services/Training	34,102	25,620	58,869	119,092	117,446	(1,646)	(1.4)
Other Charges	126	829	11,462	7,210	500	(6,710)	(93.1)
Scheduled Charges	182,508	79,137	90,344	90,717	190,873	100,155	110.4
Capital Outlay/Reimbursements	232,244	137,316	5,196	10,000	-	(10,000)	(100.0)
TOTAL OVERHEAD LINES	$ 2,317,711	2,007,222	2,681,800	2,782,014	2,745,299	(36,715)	(1.3)

Distribution Load Dispatching

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 453,530	622,734	625,001	741,292	781,821	40,529	5.5
Benefits	180,475	200,049	213,918	268,871	279,140	10,268	3.8
Supplies	4,328	11,271	6,840	11,370	8,291	(3,079)	(27.1)
Maintenance	3,856	9,405	10,250	10,313	10,397	84	0.8
Professional Services/Training	20,981	95,393	82,043	184,500	748,550	564,050	305.7
Other Charges	1,307	4,135	898	3,000	2,000	(1,000)	(33.3)
Scheduled Charges	70,576	80,789	64,133	85,935	98,467	12,531	14.6
Capital Outlay/Reimbursements	(2,043)	-	-	-	-	-	-
TOTAL DISTRIBUTION LOAD DISPATCHING	$ 733,011	1,023,776	1,003,083	1,305,282	1,928,666	623,383	47.8

Distribution Customer Svc.

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 1,051,082	1,049,856	1,071,635	1,216,163	1,222,082	5,919	0.5
Benefits	411,188	383,910	392,667	463,387	441,174	(22,213)	(4.8)
Supplies	123,875	131,266	139,919	147,983	129,541	(18,442)	(12.5)
Maintenance	267,409	241,266	294,489	241,492	248,719	7,227	3.0
Professional Services/Training	16,588	26,467	25,628	25,633	27,333	1,700	6.6
Other Charges	1,133,113	1,158,681	1,211,838	1,150,600	1,150,600	-	-
Scheduled Charges	318,866	316,282	357,624	373,338	285,525	(87,812)	(23.5)
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL DISTRIBUTION CUSTOMER SVC.	$ 3,322,121	3,307,727	3,493,801	3,618,595	3,504,974	(113,621)	(3.1)

Geographic Information Systems

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ -	-	344,551	487,992	488,710	718	0.1
Benefits	-	-	118,146	193,323	203,610	10,287	5.3
Supplies	-	-	12,439	20,285	17,695	(2,590)	(12.8)
Maintenance	-	-	470	2,000	500	(1,500)	(75.0)
Professional Services/Training	-	-	28,130	25,078	26,724	1,646	6.6
Other Charges	-	-	4,829	142,082	121,414	(20,668)	(14.5)
Scheduled Charges	-	-	491	9,029	12,124	3,095	34.3
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL GEOGRAPHIC INFORMATION SYSTEMS	$ -	-	509,057	879,789	870,777	(9,012)	(1.0)

Distribution Substations

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 407,654	336,215	355,432	428,173	358,502	(69,671)	(16.3)
Benefits	158,592	151,820	109,700	174,768	145,585	(29,183)	(16.7)
Supplies	73,586	51,194	89,465	67,474	90,047	22,574	33.5
Maintenance	131,769	128,339	139,923	84,840	92,450	7,611	9.0
Professional Services/Training	60,495	5,127	73,803	47,495	47,726	231	0.5
Other Charges	20	102	457	-	1,000	1,000	-
Scheduled Charges	118,147	174,269	223,086	260,717	533,939	273,222	104.8
Capital Outlay/Reimbursements	-	-	-	29,500	26,000	(3,500)	(11.9)
TOTAL DISTRIBUTION SUBSTATIONS	$ 950,265	847,066	991,866	1,092,966	1,295,249	202,283	18.5

Distribution Eng. & Constr. Mgmt.

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ -	-	276,615	225,332	211,013	(14,319)	(6.4)
Benefits	-	-	94,087	96,073	91,767	(4,306)	(4.5)
Supplies	-	-	16,062	23,103	15,208	(7,895)	(34.2)
Maintenance	-	-	7,291	9,000	9,000	-	-
Professional Services/Training	-	-	20,468	125,830	130,420	4,590	3.6
Other Charges	-	-	9,556	9,681	3,565	(6,116)	(63.2)
Scheduled Charges	-	-	692	21,322	29,473	8,151	38.2
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL DISTRIBUTION ENG. & CONSTR. MGMT.	$ -	-	424,772	510,340	490,445	(19,895)	(3.9)

Distribution Meter Shop

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 426,644	443,930	428,510	428,196	409,453	(18,742)	(4.4)
Benefits	174,459	172,492	173,689	165,860	157,073	(8,787)	(5.3)
Supplies	31,604	24,191	23,896	34,320	29,386	(4,934)	(14.4)
Maintenance	45,775	32,054	31,300	35,317	35,360	43	0.1
Professional Services/Training	2,929	8,557	5,379	8,879	5,707	(3,172)	(35.7)
Other Charges	3,383	2,274	666	9,480	1,900	(7,580)	(80.0)
Scheduled Charges	44,005	42,819	41,549	44,370	49,009	4,640	10.5
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL DISTRIBUTION METER SHOP	$ 728,799	726,317	704,990	726,421	687,889	(38,532)	(5.3)

Distribution Street Lights

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 201,401	445,140	486,005	565,928	674,758	108,830	19.2
Benefits	79,613	163,745	188,792	243,228	282,159	38,931	16.0
Supplies	8,868	33,378	42,222	40,934	41,867	933	2.3
Maintenance	213,072	370,756	453,033	393,449	412,333	18,884	4.8
Professional Services/Training	390	5,116	4,355	24,082	17,072	(7,010)	(29.1)
Other Charges	-	8,905	-	2,580	-	(2,580)	(100.0)
Scheduled Charges	10,017	5,419	19,069	9,130	40,899	31,768	347.9
Capital Outlay/Reimbursements	-	62,354	-	-	-	-	-
TOTAL DISTRIBUTION STREET LIGHTS	$ 513,360	1,094,813	1,193,477	1,279,331	1,469,088	189,757	14.8

Transmission Supervision & Eng.

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 264,621	345,002	411,577	448,248	396,525	(51,723)	(11.5)
Benefits	84,512	127,631	154,669	165,321	145,422	(19,900)	(12.0)
Supplies	1,940	2,857	4,654	3,610	5,585	1,975	54.7
Maintenance	1,150	551	1,303	1,200	1,200	-	-
Professional Services/Training	900,733	1,328,257	517,075	507,609	508,609	1,000	0.2
Other Charges	7,214	-	2,884	1,950	1,450	(500)	(25.6)
Scheduled Charges	3,707	4,065	6,820	18,735	68,996	50,261	268.3
Capital Outlay/Reimbursements	12,300	-	-	-	-	-	-
TOTAL TRANSMISSION SUPERVISION & ENG.	$ 1,276,177	1,808,362	1,098,982	1,146,673	1,127,787	(18,886)	(1.6)

Transmission Overhead Lines

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 7,720	2,281	3,939	45,138	47,331	2,193	4.9
Benefits	2,898	839	1,511	16,589	17,048	459	2.8
Supplies	22,259	19,900	24,991	15,150	30,251	15,101	99.7
Maintenance	67,231	9,484	5,426	65,750	30,000	(35,750)	(54.4)
Professional Services/Training	-	-	12,150	17,960	-	(17,960)	(100.0)
Other Charges	-	6,182	412	-	-	-	-
Scheduled Charges	-	-	-	-	-	-	-
Capital Outlay/Reimbursements	-	6,134	-	-	-	-	-
TOTAL TRANSMISSION OVERHEAD LINES	$ 100,108	44,820	48,430	160,587	124,630	(35,957)	(22.4)

Transmission Load Dispatching

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 286,181	369,353	395,696	476,946	496,622	19,676	4.1
Benefits	117,989	136,127	143,426	184,504	186,628	2,124	1.2
Supplies	-	-	-	2,400	-	(2,400)	(100.0)
Maintenance	934	8,837	19,636	20,000	10,000	(10,000)	(50.0)
Professional Services/Training	72,277	1,800	39,224	227,200	792,750	565,550	248.9
Other Charges	76	466	23	1,500	1,500	-	-
Scheduled Charges	-	143	4,371	-	43,327	43,327	-
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL TRANSMISSION LOAD DISPATCHING	$ 477,457	516,726	602,376	912,550	1,530,826	618,276	67.8

Transmission Substation

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 359,392	172,754	238,611	407,639	268,601	(139,038)	(34.1)
Benefits	143,291	67,508	89,358	169,789	106,135	(63,654)	(37.5)
Supplies	946	3,794	30,141	5,500	17,700	12,200	221.8
Maintenance	25,448	3,913	40,297	35,543	36,500	958	2.7
Professional Services/Training	13,446	-	13,990	27,195	27,590	395	1.5
Other Charges	-	-	4,316	250	250	-	-
Scheduled Charges	111	-	331	-	-	-	-
Capital Outlay/Reimbursements	-	-	34,307	5,900	-	(5,900)	(100.0)
TOTAL TRANSMISSION SUBSTATION	$ 542,633	247,968	451,351	651,815	456,776	(195,039)	(29.9)

Field Services

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 709,239	598,500	664,646	1,074,923	1,200,387	125,464	11.7
Benefits	315,677	303,283	351,264	555,042	658,865	103,823	18.7
Supplies	46,882	27,216	33,219	75,663	129,481	53,818	71.1
Maintenance	47,236	48,545	89,131	86,369	113,918	27,549	31.9
Professional Services/Training	2,455	1,879	5,947	8,120	18,270	10,150	125.0
Other Charges	2,685	159	2,151	26,563	2,000	(24,563)	(92.5)
Scheduled Charges	59,270	19,061	157,534	175,375	170,037	(5,338)	(3.0)
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL FIELD SERVICES	$ 1,183,444	998,644	1,303,892	2,002,054	2,292,957	290,903	14.5

Meter Reading

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 549,608	759,834	612,915	262,125	-	(262,125)	(100.0)
Benefits	479,971	419,887	340,075	177,020	-	(177,020)	(100.0)
Supplies	101,020	100,752	84,793	82,331	-	(82,331)	(100.0)
Maintenance	58,257	36,494	70,436	17,471	-	(17,471)	(100.0)
Professional Services/Training	5,621	2,835	3,083	1,000	-	(1,000)	(100.0)
Other Charges	21,452	24,646	17,333	8,000	-	(8,000)	(100.0)
Scheduled Charges	117,178	174,860	68,781	182,212	-	(182,212)	(100.0)
Capital Outlay/Reimbursements	18,835	-	-	-	-	-	-
TOTAL METER READING	$ 1,351,941	1,519,307	1,197,415	730,158	-	(730,158)	(100.0)

Customer Information Systems

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 372,305	342,331	350,848	482,145	500,677	18,532	3.8
Benefits	177,025	136,437	149,183	202,746	227,336	24,590	12.1
Supplies	39,235	1,720	2,178	5,828	3,766	(2,062)	(35.4)
Maintenance	-	960	-	-	4,500	4,500	-
Professional Services/Training	110,407	334,693	1,536,037	2,829,325	3,515,137	685,813	24.2
Other Charges	2,510	76	103,905	53,963	4,500	(49,463)	(91.7)
Scheduled Charges	792,395	1,048,605	1,595,506	1,535,458	1,406,701	(128,758)	(8.4)
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL CUSTOMER INFORMATION SYSTEMS	$ 1,493,877	1,864,824	3,737,656	5,109,465	5,662,616	553,151	10.8

Payment Processing

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 133,488	175,946	-	-	-	-	-
Benefits	137,792	95,783	-	-	-	-	-
Supplies	197,304	24,717	-	-	-	-	-
Maintenance	17,066	18,154	-	-	-	-	-
Professional Services/Training	872,637	1,688,513	-	-	-	-	-
Other Charges	207,772	137,218	-	-	-	-	-
Scheduled Charges	659,033	750,538	-	-	-	-	-
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL PAYMENT PROCESSING	$ 2,225,092	2,890,870	-	-	-	-	-

Customer Service

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 1,596,984	1,625,424	1,615,798	1,762,906	2,021,837	258,930	14.7
Benefits	869,645	834,466	889,400	1,008,036	1,118,694	110,658	11.0
Supplies	17,926	17,228	13,389	27,693	15,766	(11,927)	(43.1)
Maintenance	-	345	13,611	10,900	9,300	(1,600)	(14.7)
Professional Services/Training	21,048	12,848	14,439	39,717	26,208	(13,509)	(34.0)
Other Charges	20,303	5,616	1,551	1,980	2,000	20	1.0
Scheduled Charges	245,782	228,744	376,784	276,907	406,011	129,104	46.6
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL CUSTOMER SERVICE	$ 2,771,688	2,724,671	2,924,972	3,128,139	3,599,815	471,676	15.1

Collections

EXPENSES BY CATEGORY	Actual FY 2016-17	Actual FY 2017-18	Actual FY 2018-19	Amended FY 2019-20	Budget FY 2020-21	$ Change from Amended	% Change from Amended
Compensation	$ 450,590	438,151	642,411	741,425	803,436	62,011	8.4
Benefits	193,223	206,564	323,771	391,403	416,291	24,888	6.4
Supplies	3,093	4,719	7,055	20,524	6,124	(14,400)	(70.2)
Maintenance	93	1,083	90	500	500	-	-
Professional Services/Training	130,100	138,067	148,492	148,500	159,000	10,500	7.1
Other Charges	885	1,339	1,174	11,440	2,000	(9,440)	(82.5)
Scheduled Charges	53,355	17,041	74,751	41,603	94,171	52,568	126.4
Capital Outlay/Reimbursements	-	-	-	-	-	-	-
TOTAL COLLECTIONS	$ 831,339	806,964	1,197,744	1,355,395	1,481,523	126,127	9.3

Lubbock Power and Light Utility — Appropriation Summary

	Project Name	Appropriation to Date	2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	Total Appropriation
			Unappropriated Planning Years						
	AUTOTRANSFORMERS								
92466	Autotransformer - Co-op	$ 5,400,000	-	-	-	-	-	-	5,400,000
92468	Autotransformer - Mackenzie	5,300,000	-	-	-	-	-	-	5,300,000
	CAPACITY UPGRADES								
92680	Substation Capacity Upgrade - Northeast	-	600,000	3,790,000	-	-	-	-	4,390,000
2012098	Substation Capacity Upgrade - Erskine	-	-	-	-	655,000	2,230,000	4,785,000	7,670,000
2015027	Substation Capacity Upgrade - Co-op	-	-	625,000	2,135,000	4,580,000	-	-	7,340,000
2015029	Substation Capacity Upgrade - Mackenzie	-	-	-	640,000	2,180,000	4,685,000	-	7,505,000
2019111	Substation Capacity Upgrade - Thompson	-	-	-	-	655,000	2,230,000	4,785,000	7,670,000
2020035	Substation Capacity Upgrade - Vicksburg	-	-	-	2,990,000	4,145,000	-	-	7,135,000
	FUTURE SUBSTATIONS								
92464	Yellow House Canyon Substation	15,550,000	-	-	-	-	-	-	15,550,000
	SUBSTATION REBUILDS								
92407	Southeast Substation Expansion	4,405,000	-		-	-	-	-	4,405,000
92469	Substation Rebuild - Holly	6,800,000	-	-	-	-	-	-	6,800,000
92470	Substation Rebuild - Oliver	6,750,000	-	-	-	-	-	-	6,750,000
92635	Substation Rebuild - Northeast	3,665,000	-	-	-	-	-	-	3,665,000
92668	Wadsworth Relay Upgrade	1,500,000	-	-	-	-	-	-	1,500,000
	SUBSTATION PROJECTS								
92380	Feeder Circuits - Northwest	1,384,200	-	260,000	265,000	-	-	-	1,909,200
92484	Substation Upgrades	5,350,000	-	2,415,000	-	-	-	-	7,765,000
	345KV - ERCOT INTERCONNECTION								
92473	Posey Substation	19,890,000	-	-	-	-	-	-	19,890,000
92474	Yellow House Canyon 345/115kV Transformers	10,750,000	-	-	-	-	-	-	10,750,000
92475	Dunbar 345/115kV Transformers	11,680,000	-	-	-	-	-	-	11,680,000
92533	Posey to Southeast 115kV Line	5,940,000	-	-	-	-	-	-	5,940,000
92609	Blackwater Draw to Folsom Point 345kV Line	43,820,000	-	-	-	-	-	-	43,820,000
92610	Blackwater Draw to Double Mountain 345kV Line	60,841,522	-	-	-	-	-	-	60,841,522
92611	Double Mountain to Fiddlewood 345kV Line	17,880,000	1,200,000	-	-	-	-	-	19,080,000
92661	Posey to Oliver 115kV line	16,570,000	-	-	-	-	-	-	16,570,000
92662	Dunbar Station Work	1,000,000	-	-	-	-	-	-	1,000,000
92663	Yellow House Canyon Station Work	1,000,000	-	-	-	-	-	-	1,000,000
92664	Oliver Station Work (to accommodate 115kV lines)	750,000	-	-	-	-	-	-	750,000
92665	Southeast Station Work (to accommodate 115kV lines)	750,000	-	-	-	-	-	-	750,000
92666	Dunbar Substation Work	13,322,434	-	-	-	-	-	-	13,322,434

Lubbock Power and Light Utility Appropriation Summary

	Project Name	Appropriation to Date	Unappropriated Planning Years 2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	Total Appropriation
	TRANSMISSION PROJECTS								
92331	Fiberoptic Communications	$ 1,600,000	-	-	1,600,000	-	1,670,000	1,710,000	6,580,000
92403	69/115kV Line Rebuild: Thompson-Vicksburg	4,175,000	-	-	-	-	-	-	4,175,000
92404	115kV Line Construction – Northwest to Mackenzie	17,864,247	-	-	-	-	-	-	17,864,247
92405	69/115kV Line Rebuild: Chalker-Thompson	5,770,000	-	-	-	-	-	-	5,770,000
92460	69/115kV Line Rebuild: Erskine-Mackenzie	4,280,000	-	-	-	-	-	-	4,280,000
92477	69/115kV Line Rebuild: Holly-Southeast	9,000,000	-	-	-	-	-	-	9,000,000
92478	69/115kV Line Rebuild: Holly-Slaton	7,500,000	-	-	-	-	-	-	7,500,000
92480	69/115kV Line Rebuild: Southeast-Oliver	4,900,000	-	-	-	-	-	-	4,900,000
92681	ERCOT Conversion Work	-	375,000		-	-	-	-	375,000
92682	Program 69-115 Voltage Conversion	-	1,000,000		-	-	-	-	1,000,000
2019116	115kV Line Rebuild - Coop to McCullough	-	-	600,000	10,060,000	-	-	-	10,660,000
2019117	115kV Line Rebuild - McDonald to Northwest	-	-	-	-	6,225,000	7,575,000	-	13,800,000
2019118	69/115kV Line Rebuild: Brandon-Vicksburg	-	-	-	-	-	6,565,000	-	6,565,000
2019119	69/115kV Line Rebuild: Brandon-Erskine	-	-		-	-	3,680,000	4,785,000	8,465,000
	DISTRIBUTION PROJECTS								
8626	Distribution Planning	680,000	-	-	-	-	-	-	680,000
92282	Downtown Redevelopment Underground	4,850,500	-	-	-	-	-	-	4,850,500
92586	Dunbar-Manhattan Heights Underground Conversion	1,210,000	-	-	-	-	-	-	1,210,000
92606	South Plains Mall Expansion	835,000	-	165,000	-	-	-	-	1,000,000
92608	Red Raider Substation Distribution Feeders	4,000,000	-	1,565,000	-	-	-	-	5,565,000
92693	Distribution System Upgrade-Improvements-Expansion	-	4,301,674	3,445,000	-	-	-	-	7,746,674
92694	Substation 25kV Capacity Upgrades	-	3,800,000	6,685,000	5,335,000	-	-	-	15,820,000
92695	Downtown Redevelopment	-	650,000	1,725,000	785,000	-	-	-	3,160,000
	ANNUAL PROJECTS								
92683	FY 2020-2021 Service Distribution Meters	-	226,000	235,000	275,000	310,000	320,000	330,000	1,696,000
92684	FY 2020-21 Distribution Transformers	-	3,500,000	3,650,000	3,800,000	3,950,000	4,100,000	4,250,000	23,250,000
92685	FY 2020-2021 Distribution System Upgrade	-	5,625,000	2,245,000	2,235,000	580,000	3,335,000	6,755,000	20,775,000
92686	FY 2020-21 Overhead Lines	-	2,424,000	2,495,000	2,570,000	2,650,000	2,730,000	2,810,000	15,679,000
92687	FY 2020-21 Street Lights	-	484,600	500,000	515,000	530,000	545,000	560,000	3,134,600
92688	FY 2020-21 Underground Distribution	-	2,876,500	2,965,000	3,050,000	3,145,000	3,240,000	3,335,000	18,611,500
	DISPATCH/GIS/SCADA								
8625	Field Asset Inventory & Data Verification	2,350,862	-	315,000	-	-	-	-	2,665,862
92537	GIS Software Upgrades and Interfaces	1,765,000	-	420,000	-	-	-	-	2,185,000
92605	Operations System Upgrades	615,000	200,000	210,000	215,000	-	-	-	1,240,000
92634	LP&L - GIS Office Renovations	1,115,000	-	-	-	-	-	-	1,115,000

Lubbock Power and Light Utility — Appropriation Summary

	Project Name	Appropriation to Date	Unappropriated Planning Years 2020-21	2021-22	2022-23	2023-24	2024-25	2025-26	Total Appropriation
	PRODUCTION								
92667	Cooke Station Gas Turbine #2 (GT-2) Repairs	$ 1,770,000	-	-	-	-	-	-	1,770,000
	OTHER								
8657	Street Light Audit	-	250,000	-	-	-	-	-	250,000
92457	Customer Service Information and Workforce Management Systems	32,635,000	-	-	-	-	-	-	32,635,000
92594	Call Center IVR	620,000	-	-	-	-	-	-	620,000
92646	FY 2019-20 Vehicles and Equipment	2,635,000	-	-	-	-	-	-	2,635,000
92647	Broadway Tunnel Lighting and Control Box Upgrades	105,000	-	-	-	-	-	-	105,000
92689	ERCOT Transmission/Distribution Service Provider System	-	3,550,000	2,885,000	2,295,000	-	-	-	8,730,000
92690	East Broadway Series Street Light Conversion	-	420,000	-	-	-	-	-	420,000
92691	FY 2020-21 Vehicles and Equipment	-	2,667,500	2,750,000	2,810,000	2,870,000	2,935,000	3,000,000	17,032,500
92692	FY 2020-21 Transmission Crew Vehicles & Equipment	-	2,150,000	-	-	-	-	-	2,150,000
2020016	Substation Building	-	-	-	-	-	-	1,025,000	1,025,000
2020029	Street Light LED Conversion	-	-	4,180,000	4,270,000	4,365,000	-	-	12,815,000
Total	**Lubbock Power and Light Utility**	$ 370,573,765	36,300,274	44,125,000	45,845,000	36,840,000	45,840,000	38,130,000	617,654,039

Lubbock Power and Light — FERC Category Summary

FERC Category	Appropriation to Date	2020-21	Unappropriated Planning Years 2021-22	2022-23	2023-24	2024-25	2025-26	Total Appropriation
Regional/General	$ 35,995,000	6,887,500	9,815,000	9,375,000	7,235,000	2,935,000	3,000,000	75,242,500
Distribution	12,959,700	24,487,774	30,350,000	24,595,000	23,380,000	23,415,000	28,635,000	167,822,474
Production	1,770,000	-	-	-	-	-	-	1,770,000
T&D	21,395,862	2,350,000	945,000	215,000	-	-	-	24,905,862
Transmission	298,453,203	2,575,000	3,015,000	11,660,000	6,225,000	19,490,000	6,495,000	347,913,203
	$ 370,573,765	36,300,274	44,125,000	45,845,000	36,840,000	45,840,000	38,130,000	617,654,039

Lubbock Power and Light — Funding Summary

Funding Source	Funding to Date	2020-21	Unappropriated Planning Years 2021-22	2022-23	2023-24	2024-25	2025-26	Total Funding
PAY-AS-YOU-GO								
FY 2012 LP&L Pay-As-You-Go	$ 425,000	-	-	-	-	-	-	425,000
FY 2014 LP&L Pay-As-You-Go	530,000	-	-	-	-	-	-	530,000
FY 2016 LP&L Pay-As-You-Go	204,200	-	-	-	-	-	-	204,200
FY 2017 LP&L Pay-As-You-Go	510,000	500,000	-	-	-	-	-	1,010,000
FY 2018 LP&L Pay-As-You-Go	335,000	1,250,000	-	-	-	-	-	1,585,000
FY 2019 LP&L Pay-As-You-Go	2,350,000	-	-	-	-	-	-	2,350,000
FY 2020 LP&L Pay-As-You-Go	4,780,000	400,000	-	-	-	-	-	5,180,000
FY 2021 LP&L Pay-As-You-Go	-	19,873,600	-	-	-	-	-	19,873,600
FY 2022 LP&L Pay-As-You-Go	-	-	19,650,000	-	-	-	-	19,650,000
FY 2023 LP&L Pay-As-You-Go	-	-	-	19,740,000	-	-	-	19,740,000
FY 2024 LP&L Pay-As-You-Go	-	-	-	-	18,400,000	-	-	18,400,000
FY 2025 LP&L Pay-As-You-Go	-	-	-	-	-	17,205,000	-	17,205,000
FY 2026 LP&L Pay-As-You-Go	-	-	-	-	-	-	22,065,000	22,065,000
Total Pay-As-You-Go	$ 9,134,200	22,023,600	19,650,000	19,740,000	18,400,000	17,205,000	22,065,000	128,217,800
10-YEAR LP&L REVENUE BONDS								
FY 2013 10-Year LP&L Revenue Bonds	$ 290,000	-	-	-	-	-	-	290,000
FY 2014 10-Year LP&L Revenue Bonds	612	-	-	-	-	-	-	612
FY 2016 10-Year LP&L Revenue Bonds	1,666,661	-	-	-	-	-	-	1,666,661
FY 2017 10-Year LP&L Revenue Bonds	3,245,000	-	-	-	-	-	-	3,245,000
FY 2018 10-Year LP&L Revenue Bonds	31,799,089	3,550,000	-	-	-	-	-	35,349,089
FY 2022 10-Year LP&L Revenue Bonds	-	-	3,200,000	-	-	-	-	3,200,000
FY 2023 10-Year LP&L Revenue Bonds	-	-	-	2,295,000	-	-	-	2,295,000
Total 10-Year LP&L Revenue Bonds	$ 37,001,362	3,550,000	3,200,000	2,295,000	-	-	-	46,046,362

Lubbock Power and Light — Funding Summary

Funding Source	Funding to Date	2020-21	Unappropriated Planning Years 2021-22	2022-23	2023-24	2024-25	2025-26	Total Funding
20-YEAR LP&L REVENUE BONDS								
FY 2014 20-Year LP&L Revenue Bonds	$ 719,448	-	-	-	-	-	-	719,448
FY 2015 20-Year LP&L Revenue Bonds	1,334,739	-	-	-	-	-	-	1,334,739
FY 2016 20-Year LP&L Revenue Bonds	400,000	-	-	-	-	-	-	400,000
FY 2017 20-Year LP&L Revenue Bonds	-	16,449	-	-	-	-	-	16,449
FY 2018 20-Year LP&L Revenue Bonds	650,000	965,225	-	-	-	-	-	1,615,225
FY 2021 20-Year LP&L Revenue Bonds	-	-	-	-	-	-	-	-
FY 2022 20-Year LP&L Revenue Bonds	-	-	18,000,000	-	-	-	-	18,000,000
FY 2023 20-Year LP&L Revenue Bonds	-	-	-	11,885,000	-	-	-	11,885,000
FY 2024 20-Year LP&L Revenue Bonds	-	-	-	-	12,215,000	-	-	12,215,000
FY 2025 20-Year LP&L Revenue Bonds	-	-	-	-	-	9,145,000	-	9,145,000
FY 2026 20-Year LP&L Revenue Bonds	-	-	-	-	-	-	9,570,000	9,570,000
Total 20-Year LP&L Revenue Bonds	$ 3,104,187	981,674	18,000,000	11,885,000	12,215,000	9,145,000	9,570,000	64,900,861
30-YEAR LP&L REVENUE BONDS								
FY 2016 30-Year LP&L Revenue Bonds	$ 1,245,000	-	-	-	-	-	-	1,245,000
FY 2017 30-Year LP&L Revenue Bonds	10,545,610	357,435	-	-	-	-	-	10,903,045
FY 2018 30-Year LP&L Revenue Bonds	36,057,826	17,565	-	-	-	-	-	36,075,391
FY 2022 30-Year LP&L Revenue Bonds	-	-	3,275,000	-	-	-	-	3,275,000
FY 2023 30-Year LP&L Revenue Bonds	-	-	-	11,925,000	-	-	-	11,925,000
FY 2024 30-Year LP&L Revenue Bonds	-	-	-	-	6,225,000	-	-	6,225,000
FY 2025 30-Year LP&L Revenue Bonds	-	-	-	-	-	19,490,000	-	19,490,000
FY 2026 30-Year LP&L Revenue Bonds	-	-	-	-	-	-	6,495,000	6,495,000
Total 30-Year LP&L Revenue Bonds	$ 47,848,436	375,000	3,275,000	11,925,000	6,225,000	19,490,000	6,495,000	95,633,436
20-YEAR REVOLVING NOTE PROGRAM								
FY 2019 Revolving Note Program	$ 10,785,000	-	-	-	-	-	-	10,785,000
FY 2020 Revolving Note Program	12,460,813	-	-	-	-	-	-	12,460,813
FY 2021 Revolving Note Program	-	8,370,000	-	-	-	-	-	8,370,000
Total 30-Year LP&L Revenue Bonds	$ 23,245,813	8,370,000	-	-	-	-	-	31,615,813
30-YEAR REVOLVING NOTE PROGRAM								
FY 2019 Revolving Note Program	$ 95,836,375	-	-	-	-	-	-	95,836,375
FY 2020 Revolving Note Program	154,403,392	1,000,000	-	-	-	-	-	155,403,392
Total 30-Year Revolving Note Program	$ 250,239,767	1,000,000	-	-	-	-	-	251,239,767
Lubbock Power and Light	$ 370,573,765	36,300,274	44,125,000	45,845,000	36,840,000	45,840,000	38,130,000	617,654,039

Managing Department **7711-Regional Market Admin & Compliance**

Project Manager **Jeff Baker**

Project Classification **Master Plans/Studies**

Project Status **Approved**

Project Scope
Acquisition and verification of all Geographic Information System (GIS)-required outside plant data, utilizing both in-house personnel and external contractors. Acquisition of equipment, software and training to effectively execute the project.

Project Justification
The LP&L GIS is the system of record for the LP&L distribution system and is made up of two parts – the data representing LP&L's infrastructure and the software used to view and maintain this data. With approximately 3,000 edits per week, the LP&L GIS represents an electrical distribution system in a constant state of transformation and growth. Due to multiple data sets from LP&L and Xcel, and inaccuracies as a result, GIS operations must work in a constant state of reactive behavior in response to problems caused by inaccurate data. The fiber communication needs to be verified and documented. The productivity of both the Engineering and Operations Departments is negatively affected as a result. LP&L is making substantial investments in new software systems that will depend on accurate data for processing and analysis. The goal of this project is to ensure that the GIS data and fiber is worthy of these new systems and can be relied upon by everyone who depends on this information.

FERC Accounts: 383

Estimated Useful Life: 10 years

Project History
$2,650,862 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Decreased $300,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Technology	2,350,862	0	315,000	0	0	0	0	2,665,862
Total Project Appropriation	2,350,862	0	315,000	0	0	0	0	2,665,862

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2014 10-Year LP&L Revenue Bonds	612	0	0	0	0	0	0	612
FY 2016 10-Year LP&L Revenue Bonds	250	0	0	0	0	0	0	250
FY 2018 10-Year LP&L Revenue Bonds	2,350,000	0	0	0	0	0	0	2,350,000
FY 2022 10-Year LP&L Revenue Bonds	0	0	315,000	0	0	0	0	315,000
Total Funding Sources	2,350,862	0	315,000	0	0	0	0	2,665,862

Project Name **Distribution Planning** *Project Number* **8626**

Managing Department **7411-Distribution Supervision & Engineering**

Project Manager **Eashtiaq Siddiquey**

Project Classification **Master Plans/Studies**

Project Status **Approved**

Project Scope
Perform a near-term and long-term planning assessment of the entire distribution system. The project will consist of collecting data, performing engineering calculations to model the system, performing analyses on all substations and feeders, and creating a near and long term plan for both the LP&L distribution system and the purchased Xcel/SPS distribution system. This project includes the estimated engineering and contract cost associated with performing this assessment.

Project Justification
Examination of the existing state of the distribution grid substantiates the necessity for the planning assessments of the LP&L power distribution grid. Studies need to be performed, such as reactive resources, system stability, automation, load balancing, voltage control, and power quality. As the grid continues to grow, planning must be one-step ahead to strengthen the reliability and operations of the LP&L grid.

FERC Accounts: 588.13

Estimated Useful Life: 10

Project History
$345,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
August 15, 2018 Reduced $250,000 FY 2018 LP&L Cash and moved to 92529 FY 2017-18 Underground Distribution.
$355,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$230,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Other Activities	680,000	0	0	0	0	0	0	680,000
Total Project Appropriation	680,000	0	0	0	0	0	0	680,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 LP&L Cash	95,000	0	0	0	0	0	0	95,000
FY 2019 LP&L Cash	355,000	0	0	0	0	0	0	355,000
FY 2020 LP&L Cash	230,000	0	0	0	0	0	0	230,000
Total Funding Sources	680,000	0	0	0	0	0	0	680,000

Project Name **Street Light Audit** *Project Number* **8657**

Managing Department **7421-Distribution Street Lights**

Project Manager **Toby Warden**

Project Classification **Street Lighting**

Project Status **Approved**

Project Scope

Conduct a GIS inventory survey of Lubbock's existing Cobrahead and decorative streetlights, and produce an electronic streetlight map (inventory file) and database that is accessible through common GIS software, ArcGIS Online, and Google KMZ. The report produced will summarize the existing lighting inventory and include comprehensive cost estimates for the conversion and the potential kWh savings.

Project Justification

LP&L needs a accurate record of the lighting inventory which can be used for planning purposes for future years. This project is essential for a proper Light-emitting Diode (LED) lighting design. From an asset management standpoint, any future work on any part of the network can be recorded and tracked on a map that the audit will produce, which will result in better cost allocation and maintenance going forward. Tracking the exact locations of damaged poles in the network will also be possible.

Project History

$250,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	100,000	0	0	0	0	0	100,000
Design and Engineering	0	150,000	0	0	0	0	0	150,000
Total Project Appropriation	0	250,000	0	0	0	0	0	250,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L Cash	0	250,000	0	0	0	0	0	250,000
Total Funding Sources	0	250,000	0	0	0	0	0	250,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Downtown Redevelopment Underground** *Project Number* **92282**

Managing Department **7418-Distribution Engineering Construction**

Project Manager **Jarrod Huse**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

Utilizing the City of Lubbock's installed duct banks, this project will reroute/install new underground feeders, switchgear and sub-feeders in downtown Lubbock to upgrade infrastructure, improve system reliability, minimize overhead and facilitate development within the five phases of downtown redevelopment. General limits of all combined phases are Marsha Sharp Freeway to 15th St & Ave Q to Ave E. This includes the engineering, planning, materials, and construction work required to complete the project. Work within individual alleys for conversion to underground was added to the project scope in February 2018 per direction of the Electric Utility Board. Also includes installations and relocations/revisions of any vehicular street light facility within the project limits in response to development. This includes engineering, planning, materials and construction work for street light poles, fixtures, overhead & underground feeds as well as power sources. Project scope does not include pole removal where other utilities are attached.

Project Justification

The City of Lubbock began Phase 1 of the duct bank, (conduit) installation in 2012 along Ave O. At that time this CIP was created to utilize this new duct bank to install new feeder lines to accommodate the Phase 1 target block, located on the northwest corner of Broadway & Ave O. LP&L facility relocation to accommodate the target block was completed in 2013. From 2013 through 2016 this CIP was budgeted to continue feeder line installations for Phases 2 & 3 down Ave M & Ave J respectively and to upgrade and improve system reliability. During that time this CIP was also used to accommodate development projects as they occurred. In September of 2016, by direction of the Electric Utility Board continued expenditures to this CIP were temporarily halted, until an engineering study could be provided and a clearer direction given for the scope of the project. Upon completion of the study, in April 2017, the Electric Utility Board directed that the scope moving forward would include feeder and sub-feeder installations while continuing to facilitate development projects as they occurred. This direction excluded alley conversions where active development is not present. In February 2018, the Electric Utility Board directed that a change of scope and budget be proposed to include alley conversions, regardless of development.

City of Lubbock conduit installation for Phases 1, 2 & 3a is complete. LP&L feeder cable & switch installations for Phases 1, 2, and 3a are complete. The City of Lubbock has not yet begun construction to install conduit for Phase 3b, (east of Ave J.)

LP&L currently serves a large portion of the downtown area with an overhead power system. LP&L's responsibility is to move overhead facilities into the underground duct bank. LP&L is tasked with purchasing and installing pad mounted switchgear, enclosures, manhole vaults, power cables and transformers in the area.

FERC Accounts: 360, 364, 365, 366, 367, 368, 369, 370

Estimated Useful Life: 30 years

Project History

$425,000 was appropriated in FY 2011-12 Budget Amendment No. 12, Ord. No. 2012-O0028, April 10, 2012.
$290,000 was appropriated in the FY 2012-13 Budget, Ord. No. 2012-O0100, September 13, 2012.
$280,000 was appropriated in the FY 2013-14 Budget, Ord. No. 2013-O0087, September 10, 2013.
$1.0 million was appropriated in the FY 2014-15 Budget, Ord. No. 2014-O0122, September 11, 2014.
$510,500 was appropriated in the FY 2015-16 Budget, Ord. No. 2015-O0094, September 10, 2015.
$510,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$530,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
$600,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$1,105,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Decreased $400,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

Appropriation Detail	Appropriation to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	4,850,500	0	0	0	0	0	0	4,850,500
Total Project Appropriation	4,850,500	0	0	0	0	0	0	4,850,500

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2012 LP&L Cash	425,000	0	0	0	0	0	0	425,000
FY 2013 10-Year LP&L Revenue Bonds	290,000	0	0	0	0	0	0	290,000
FY 2014 LP&L Cash	280,000	0	0	0	0	0	0	280,000
FY 2015 LP&L Revenue Bonds	1,000,000	0	0	0	0	0	0	1,000,000
FY 2016 10-Year LP&L Revenue Bonds	510,500	0	0	0	0	0	0	510,500
FY 2017 LP&L Cash	510,000	0	0	0	0	0	0	510,000
FY 2018 20-Year LP&L Revenue Bonds	530,000	0	0	0	0	0	0	530,000
FY 2019 LP&L 20-Year Revolving Note Program	600,000	0	0	0	0	0	0	600,000
FY 2020 LP&L 20-Year Revolving Note Program	705,000	0	0	0	0	0	0	705,000
Total Funding Sources	4,850,500	0	0	0	0	0	0	4,850,500

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Fiberoptic Communications** *Project Number* **92331**

Managing Department **7418-Transmission Supervision & Engineering**

Project Manager **Lee Roy Martinez**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope
Install optical ground wire (OPGW) and All-Dielectric Self-Supporting (ADSS) cable on existing transmission and distribution lines. The OPGW will directly replace the existing static/neutral conductor on the transmission lines. The ADSS will connect existing substations that do not currently have fiber capabilities.

ADSS is a self supporting cable that is ideal for installation on distribution as well as transmission lines. with the added benefit fo containing fibers which can be used for telecommunications purposes.

OPGW is a dual functioning conductor/cable, meaning it serves two purposes. It is designed to replace traditional static/shield/earth wires on overhead transmission lines with the added benefit of containing optical fibers which can be used for telecommunications purposes.

The project will include the engineering analysis, design, materials, and construction costs for the installation in and out of the substations. The engineering analysis includes a pole loading analysis to verify the existing pole designs before the installation of OPGW or ADSS. The materials include the OPGW/ADSS conductors, steel poles and foundations, and all fiber equipment required to terminate, test, and route the fiber into the control building at each substation location.

Project Justification
The installation of this fiber will facilitate communication for LP&L by connecting substations via fiber. The new fiber will create new communication channels for the following: SCADA communication between the substation remote terminal unit (RTU) and the master station in the control room; communication between protective relays on the transmission lines; and redundant communication channels for a TOKEN ring fiber network by absorbing these substations.

The installation of OPGW and ADSS is a standard line design practice. This practice is employed for new construction and also when upgrading the communications between substations.

FERC Accounts: 353, 355, 356, 359

Estimated Useful Life: 30 years

Project History
$250,000 was appropriated in the FY 2013-14 Budget, Ord. No. 2013-O0087, September 10, 2013.
$155,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$1,195,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
BCR No. 1718-08 decreased 2018 Electric Light & System Revenue Bonds by $344,694.58; Reallocated 2017 Electric Light & System Revenue Bonds, Series 2017 by $344,694.58.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	1,600,000	0	0	1,600,000	0	1,670,000	1,710,000	6,580,000
Total Project Appropriation	1,600,000	0	0	1,600,000	0	1,670,000	1,710,000	6,580,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2014 LP&L Cash	250,000	0	0	0	0	0	0	250,000
FY 2017 30-Year LP&L Revenue Bonds	499,695	0	0	0	0	0	0	499,695
FY 2018 30-Year LP&L Revenue Bonds	850,305	0	0	0	0	0	0	850,305
FY 2023 30-Year LP&L Revenue Bonds	0	0	0	1,600,000	0	0	0	1,600,000
FY 2025 30-Year LP&L Revenue Bonds	0	0	0	0	0	1,670,000	0	1,670,000
FY 2026 30-Year LP&L Revenue Bonds	0	0	0	0	0	0	1,710,000	1,710,000
Total Funding Sources	1,600,000	0	0	1,600,000	0	1,670,000	1,710,000	6,580,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Feeder Circuits - Northwest** *Project Number* **92380**

Managing Department **7411-Distribution Supervision & Engineering**

Project Manager **Jubal Mann**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope
Construct six (6) new distribution feeders exiting the Northwest Substation.

Project Justification
The Northwest Substation was built and energized in 2008; however, only two (2) distribution feeders were constructed for this eight (8) circuit substation. New feeders must be built to keep up with growing electrical load in northwest Lubbock.

FERC Accounts: 361, 364, 365, 366, 367, 368

Estimated Useful Life: 30 years

Project History
$200,000 was appropriated in the FY 2014-15 Budget, Ord. No. 2014-O0122, September 11, 2014.
$204,200 was appropriated in the FY 2015-16 Budget, Ord. No. 2015-O0094, September 10, 2015.
$205,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$240,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
$250,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$285,000 was appropriated in FY 2019-20, BCR# 1920-03, November 1, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	1,384,200	0	260,000	265,000	0	0	0	1,909,200
Total Project Appropriation	1,384,200	0	260,000	265,000	0	0	0	1,909,200

Project Name **Feeder Circuits - Northwest** *Project Number* **92380**

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2014 LP&L Revenue Bonds	205,000	0	0	0	0	0	0	205,000
FY 2015 LP&L Revenue Bonds	200,000	0	0	0	0	0	0	200,000
FY 2016 LP&L Cash	204,200	0	0	0	0	0	0	204,200
FY 2018 LP&L Cash	240,000	0	0	0	0	0	0	240,000
FY 2019 LP&L Cash	250,000	0	0	0	0	0	0	250,000
FY 2020 LP&L 30-Year Revolving Note Program	285,000	0	0	0	0	0	0	285,000
FY 2022 30-Year LP&L Revenue Bonds	0	0	260,000	0	0	0	0	260,000
FY 2023 30-Year LP&L Revenue Bonds	0	0	0	265,000	0	0	0	265,000
Total Funding Sources	1,384,200	0	260,000	265,000	0	0	0	1,909,200

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope
Rebuild 1.25 miles of a 69kV transmission line from the Thompson Substation to the Vicksburg Substation. The transmission line is primarily constructed of 70-75 foot wood poles and has single-circuit or double-circuit distribution under-build for most of the line. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire, however the final determination of the conductor is subject to change based on engineering analyses. The line will be re-insulated for 115kV, and is a design change that does not affect the operation of the line. Near Vicksburg Substation, the Thompson to Vicksburg line will be swapped with the Vicksburg to Mcullough transmission line. This will require a new deadend structure to cross the new line position across Highway 82.

Rebuild is a term used when a line has to be replaced, completely torn down, and rebuilt. A rebuild job is different from a reconductor job, a re-conductor job only involves taking down the wires and hardware and replacing them with new hardware and larger wires. Installing a larger wire/conductor also lowers or decreases the resistance of the transmission line.

The project includes the estimated engineering, material, and construction costs associated with rebuilding the transmission line. While only a portion of the line will be rebuilt, the static neutral wire will be upgraded and replaced for the entire line length of 2.58 miles.

Project Justification
The existing 477 ACSR 69kV transmission line has exceeded its life expectancy as it was built in the 1960s. This is also a high impedance line restricting the power flow in the transmission system thus putting adjacent lines in danger of exceeding their capacity during emergency (N-1) conditions. The new transmission line is required to be insulated for 115 kV in order to tie into the ERCOT power grid.

FERC Accounts: 350, 355, 356

Estimated Useful Life: 30 years

Project History
$750,000 was appropriated in the FY 2015-16 Budget, Ord. No. 2015-O0094, September 10, 2015.
Reduced funding by $630,000 in FY 2015-16 Budget Amendment No. 19, Ord. No. 2016-O0057, April 28, 2016.
$980,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Reduced funding by $250,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
$1,030,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
BCR 1718-08 increased appropriation by $500,000 on 8/15/18 from the issuance of 30-year Electric Light & System Revenue Bonds, Series 2018.
$615,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$430,000 was appropriated in FY 2018-19, BCR# 1819-09, March 4, 2019.
$750,000 was appropriated in FY 2019-20, BCR# 1920-8, June 3, 2020.

Project Name **69/115kV Line Rebuild: Thompson-Vicksburg** *Project Number* **92403**

Appropriation Detail	Appropriation to Date	FY 2020-21	Unappropriated Planning Years					Total Project Amount
			FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
Construction	4,055,000	0	0	0	0	0	0	4,055,000
Design and Engineering	120,000	0	0	0	0	0	0	120,000
Total Project Appropriation	4,175,000	0	0	0	0	0	0	4,175,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years					Total Funding
			FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
FY 2016 30-Year LP&L Revenue Bonds	120,000	0	0	0	0	0	0	120,000
FY 2017 30-Year LP&L Revenue Bonds	730,000	0	0	0	0	0	0	730,000
FY 2018 30-Year LP&L Revenue Bonds	1,530,000	0	0	0	0	0	0	1,530,000
FY 2019 LP&L 30-Year Revolving Note Program	1,795,000	0	0	0	0	0	0	1,795,000
Total Funding Sources	4,175,000	0	0	0	0	0	0	4,175,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years					Total Impact
		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **115kV Line Construction: Northwest-Mackenzie** *Project Number* **92404**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **New Facility**

Project Status **Approved**

Project Scope

Construct a new 115kV transmission line, approximately 10 miles in length, from the Northwest Substation to a new Yellow House Canyon Substation and then to Mackenzie Substation. The transmission line conductor is planned to be 959.6 aluminum conductor steel supported thermal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire. However, the final determination of the conductor is subject to change based on the engineering analyses of the physical construction. The primary factor to consider is the percent loading of the line and the effective sag it has on the line. The transmission line total cost per mile will be approximately $1.79 million. The project includes the estimated engineering, ROW acquisition, material, and construction cost associated with constructing the transmission line.

Project Justification

The existing topology of the transmission system shows an open loop on the North side of Lubbock. This decreases the reliability for the LP&L transmission system, specifically in the case of an emergency, N-1 condition. The new 10 miles of transmission line will connect the East side of the Lubbock transmission system to the West and effectively close the open loop on the North side of Lubbock while drastically improving the reliability of the transmission system. Additionally, the transmission line segment between Northwest Substation and Mackenzie Substation will be utilized to connect to the ERCOT 345 kV transmission power grid.

FERC Accounts: 350, 355, 356

Estimated Useful Life: 30 years

Project History

$5.0 million was appropriated in the FY 2015-16 Budget, Ord. No. 2015-O0094, September 10, 2015.
Reduced funding by $4,250,000 in FY 2015-16, Budget Amendment No. 19, Ord. No. 2016-O0057, April 28, 2016.
$15,250,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Reduced funding by $13,355,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
$9,530,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Reduced appropriation by $2,660,000 per BCR 1718-08 on 8/15/18 with issuance of 30-year Electric Light & System Revenue Bonds, Series 2018.
$1,090,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$4,621,715 was appropriated per BCR 1819-05. February 5, 2019.
$2,637,532 was appropriated in FY 2019-20, BCR# 1920-03, November 1, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	17,114,247	0	0	0	0	0	0	17,114,247
Design and Engineering	750,000	0	0	0	0	0	0	750,000
Total Project Appropriation	17,864,247	0	0	0	0	0	0	17,864,247

Project Name **115kV Line Construction: Northwest-Mackenzie** *Project Number* **92404**

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2016 30-Year LP&L Revenue Bonds	750,000	0	0	0	0	0	0	750,000
FY 2017 30-Year LP&L Revenue Bonds	2,087,913	0	0	0	0	0	0	2,087,913
FY 2018 30-Year LP&L Revenue Bonds	8,070,000	0	0	0	0	0	0	8,070,000
FY 2019 LP&L 30-Year Revolving Note Program	5,318,802	0	0	0	0	0	0	5,318,802
FY 2020 LP&L 30-Year Revolving Note Program	1,637,532	0	0	0	0	0	0	1,637,532
Total Funding Sources	17,864,247	0	0	0	0	0	0	17,864,247

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **69/115kV Line Rebuild: Chalker-Thompson** *Project Number* **92405**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope
Rebuild 2.2 miles of a 69kV transmission line from the Chalker Substation to the Thompson Substation. The transmission line is primarily constructed of 70-75 foot wood poles and has single-circuit or double-circuit distribution under-build for most of the line. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire, however the final determination of the conductor is subject to change based on engineering analyses. The line will be re-insulated for 115kV, and is a design change that does not affect the operation of the line.

Rebuilding is a term used when a line has to be replaced, completely torn down, and rebuilt. A rebuild job is different from a re-conductor job, a re-conductor job only involves taking down the wires and hardware and replacing them with new hardware and larger wires. Installing a larger wire / conductor also lowers or decreases the resistance of the transmission line.

The project includes the estimated engineering, material, and construction cost associated with rebuilding the transmission line. The static neutral wire will also be upgraded and replaced for the entire line length of 2.2 miles.

Project Justification
The existing 477 ACSR 69kV transmission line has exceeded its life expectancy as it was built in the 1960s. This is also a high impedance line restricting the power flow in the transmission system thus putting adjacent lines in danger of exceeding their capacity during emergency (N-1) conditions. The new transmission line is required to be insulated for 115 kV in order to tie into the ERCOT power grid.

FERC Accounts: 355, 355, 356

Estimated Useful Life: 30 years

Project History
$1.5 million was appropriated in the FY 2015-16 Budget, Ord. No. 2015-O0094, September 10, 2015.
Reduced funding by $1,275,000 in FY 2015-16, Budget Amendment No. 19, Ord. No. 2016-O0057, April 28, 2016.
$1,575,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Reduced funding by $765,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
$1,620,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Increased appropriation by $1,770,000 per BCR 1718-08 on 8/15/18 with issuance of 30-year Electric Light & System Revenue Bonds, Series 2018.
$1,450,000 was appropriated in FY 2019-20, BCR# 1920-03, November 1, 2019.
Decreased $105,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	5,545,000	0	0	0	0	0	0	5,545,000
Design and Engineering	225,000	0	0	0	0	0	0	225,000
Total Project Appropriation	5,770,000	0	0	0	0	0	0	5,770,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years					Total Funding
			FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
FY 2016 30-Year LP&L Revenue Bonds	225,000	0	0	0	0	0	0	225,000
FY 2017 30-Year LP&L Revenue Bonds	810,000	0	0	0	0	0	0	810,000
FY 2018 30-Year LP&L Revenue Bonds	3,390,000	0	0	0	0	0	0	3,390,000
FY 2020 LP&L 30-Year Revolving Note Program	1,345,000	0	0	0	0	0	0	1,345,000
Total Funding Sources	5,770,000	0	0	0	0	0	0	5,770,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years					Total Impact
		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope
Connect the existing 230/69kV auto transformer to the existing 69kV and 230kV buses, upgrade the existing relay protection, replace the SCADA Remote Terminal Unit (RTU, SCADA Remote Communication Terminal), and install a second set of substation batteries and battery charger.

This substation was previously insulated at 115kV, and is operated at 69kV. The existing relay protection includes: one existing autotransformer, one existing 230kV transmission line, four existing 69/115kV transmission lines, and one 69/115kV substation bus.

This project includes the engineering, material, and construction costs associated with installing the auto transformer, relay protection panels, circuit breakers, batteries, and RTU.

Project Justification
The installation of this autotransformer is needed to increase the reliability and capacity of the transmission system. This installation also increases the power import capacity at Southeast Substation.

Relay protection for autotransformers, transmission lines, and busses is required to implement the new LP&L standard design for a fully integrated substation protection package. This protection is designed to quickly isolate faulted parts of the transmission system in order to protect the equipment, protect the unaffected system, and to improve the reliability of the transmission network. The relay protection includes primary and backup protection for all protection areas/schemes.

New LP&L relay protection standards require dual trip coil circuit breakers, such that if one trip coil fails then the second trip coil operates and trips the breaker. A second trip coil in each breaker is required to reduce the probability of a breaker failure event. A breaker failure at this substation would essentially de-energize the entire substation and interrupt power flow into the LP&L system from Xcel to the connecting substations, and power flow to all customers connected to the Southeast Substation.

The installation of a second battery bank and charger will provide redundant direct current (DC) voltage sources to the relay protection throughout the substation. This will allow the primary protection to operate on preferred DC system (Primary) and the backup protection to operate on the back DC system (Secondary / Backup). This will eliminate a single point failure on the DC system.

The existing RTU cannot be upgraded, does not support the new communication protocol, and does not support the number of points required for the new equipment being installed. On an RTU, a point can be a hardwired connection or a software connection. The point can be any of three types; analog (amps, volts, watts, etc), status (alarms, open / closed indications, etc), or control (open, close, ON, OFF, etc) points. The new relays will also reduce and at times eliminate the need for hardwired connections to analog transducers and relay control boards.

FERC Accounts: 352, 353

Estimated Useful Life: 30 years

Project History

$1.0 million was appropriated in the FY 2015-16 Budget, Ord. No. 2015-O0094, September 10, 2015.
Reduced funding by $850,00 in FY 2015-16, Budget Amendment No. 19, Ord. No. 2016-O0057, April 28, 2016.
$850,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$720,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
$1,110,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$1,500,000 was appropriated in FY 2018-19 Budget Amendment No. 7, Ord. No 2019-O0012, February 12, 2019.
$75,000 was appropriated in FY 2019-20, BCR# 1920-03, November 1, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	4,255,000	0	0	0	0	0	0	4,255,000
Design and Engineering	150,000	0	0	0	0	0	0	150,000
Total Project Appropriation	4,405,000	0	0	0	0	0	0	4,405,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2016 30-Year LP&L Revenue Bonds	150,000	0	0	0	0	0	0	150,000
FY 2017 30-Year LP&L Revenue Bonds	850,000	0	0	0	0	0	0	850,000
FY 2018 30-Year LP&L Revenue Bonds	720,000	0	0	0	0	0	0	720,000
FY 2019 LP&L 30-Year Revolving Note Program	2,610,000	0	0	0	0	0	0	2,610,000
FY 2020 LP&L 30-Year Revolving Note Program	75,000	0	0	0	0	0	0	75,000
Total Funding Sources	4,405,000	0	0	0	0	0	0	4,405,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **7711-Regional Market Admin & Compliance**

Project Manager **Jamie Cook**

Project Classification **Administrative**

Project Status **Approved**

Project Scope
The Customer Service Information Systems (CSIS) will integrate technologies and innovative services such as advanced meters, communication networks, and data management systems that produce a more efficient, sustainable, economic, and secure supply of utility services.

The following are key components of CSIS:
- Secure, integrated communication network
- Advanced Metering Infrastructure (AMI)
- Meter Data Management System (MDMS)
- Customer Smart Choice Programs
- Opt Out
- Mobile Workforce Management (MWFM)

Secure, Integrated Communication Network
Advanced communication and information systems enable high-speed controls necessary to manage customer data on a high capacity, secure communication network.

Advanced Metering Infrastructure (AMI)
AMI enables two-way communication between utilities and customers. Additional communication past the meter, into the home, is an additional functionality that will not be implemented.

With advanced two-way communication, these meters offer near real-time reads, power outage notification, and power quality monitoring. Meter reading is performed over the network automatically or on demand, eliminating complaints regarding meter reader intrusion, dog bites, and exposure to accidents. Advanced meters provide better accuracy of meter data by eliminating visual meter reading errors as well as superior electric service theft detection and reduced revenue loss from theft. Residential advanced meters include a remote operated on/off switch allowing LP&L the ability to remotely turn electric service on or off, providing faster service connections and reduced truck rolls.

Customer Information System/Meter Data Management System
The project incorporates a significant investment in information technology such as a meter data management system (MDMS) and a modernized, robust, customer information system (CIS). There is a need to upgrade the current aging infrastructure that includes various systems and equipment that are nearing the end of their lifecycle. This project includes the cost of a new or upgraded CIS to replace LP&L's existing increasingly outdated and inadequate billing system. The sheer volume of data that will be generated by the CSIS components is beyond the capability of the current CIS. In addition to a modernized CIS, a MDMS will also be required. The MDMS is technology that allows meter data to communicate across the utility, to be used for information in billing, customer service, outage, and load management. Access to meter data via remote meter reading and on/off service switches improve LP&L's ability to address customer questions and troubleshoot concerns. Service can be turned on or off within minutes of issuing the order. Customer questions or complaints can be resolved during the initial phone call without requiring the need to dispatch field personnel. When customers move out of their residence, service can be disconnected promptly minimizing lost revenues by reducing the time to implement a field order. When customers request new service, it can be started just as quickly. LP&L can review meter data to understand and then educate customers as to why their bills may have changed over a given time period. The increased level of customer services will aid in improving overall customer satisfaction.

The CIS and MDMS, working together, will provide customer account management and billing services for the utility. This includes meter information, billing rates, historical consumption, and associated charges. The CIS and MDMS are used extensively by customer

service personnel in communicating with customers and resolving customer concerns and issues. In addition to electric services, the CIS provides billing for Water, Solid Waste, Storm Water, Wastewater, and Landfill. Combining the implementation of the CIS and the MDMS will offer a reduced risk of implementation failure, overall implementation time, and implementation costs.

Mobile Workforce Management System
The new mobile workforce management system (MWFM) will allow LP&L to effectively manage our mobile workforce and provide superior customer service while enhancing productivity and reducing costs. The system will provide accurate and efficient field resource forecasting, scheduling, dispatching, and communication.

The existing MWFM, ViryaNet, was purchased in 2004 as part of the GE Outage Management System and failed in 2017, leaving our mobile workforce in a paper-only environment. The ability to have real-time communication with our customers cannot occur without the MWFM. The paper-only option requires manual processes resulting in communication delays and costly and labor intensive processes. The lack of an MWFM impacts productivity in several areas including, but not limited to, field staff, their support staff and customer service staff.

The MWFM has the capability to generate service orders, interfaces with the billing system, and sends information from a service order to the field staff. This interface provides information to field technicians such as meter information (type of meter, meter number, meter location) and latest meter reading. It provides a direct link between field technicians and customer service staff in both the electric and water departments. This system will allow customer service staff to give direction to field technicians related to work requested by customers and will allow field staff to provide findings that have been observed or conducted in the field to customer service staff. A main benefit of this system is the flow of communication that allows customer service staff to immediately follow up with a customer once the work is complete.

Opt Out
An Opt Out program is in place as part of LP&L's CSIS project. Understanding the importance of personal choice, it is vital that we allow for single family residential customers to be offered the option to Opt-Out. These customers will not be able to benefit from advanced meter functionality and will be responsible for the fees associated with the installation of the non-standard meter as well as monthly recurring charges to cover the cost associated with manual meter reading.

Following is a high level overview of activities that have, or will occur in this project:

FY 2016-17: Requirements gathering began for CIS/MDMs, AMI, and MWFM; project planning and scope was finalized, including meter specification, meter functionality, procurement, and meter deployment logistics including the receipt of materials, meter testing, inventory management, storage, mobilization, deployment, installation and tracking

FY 2017-18: CIS/MDMs, AMI, and MWFM vendor selection was completed; communication network tasks began; meters were purchased; deployment process was finalized and meter installation began; CIS project was started.

FY 2018-19: Meter installation is underway; focus on CSIS/MWFM project and overall change management

FY 2019-20: Meter installation is complete; CIS/MDM and MWFM go-live; systems enter stabilization period.

FY 2020-21: Project is complete and system stabilization is realized.

FERC Accounts: 383

Estimated Useful Life: 10 years

Project Justification
Justification is included in the scope description.

Project History
$2.0 million was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$38,885,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
BCR 1718-08 on 8/15/18 decreased 10 year Electric Light & System Revenue Bonds, Series 2018 by $2,400,911. Reallocated Electric Light & System Revenue Bonds Series 2016 by $1,155,911 and Series 2017 by $1,245,000. Also reduced appropriation by $5,000,000 and funding source of 10-year Electric Light & System Revenue Bonds, Series 2018.
$1,750,000 was appropriated from CIP 92492 in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Decreased $5,000,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

Appropriation Detail	Appropriation to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	32,635,000	0	0	0	0	0	0	32,635,000
Total Project Appropriation	32,635,000	0	0	0	0	0	0	32,635,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2016 10-Year LP&L Revenue Bonds	1,155,911	0	0	0	0	0	0	1,155,911
FY 2017 10-Year LP&L Revenue Bonds	3,245,000	0	0	0	0	0	0	3,245,000
FY 2018 10-Year LP&L Revenue Bonds	28,234,089	0	0	0	0	0	0	28,234,089
Total Funding Sources	32,635,000	0	0	0	0	0	0	32,635,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
Consumable Supplies	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **69/115kV Line Rebuild: Erskine-Mackenzie** *Project Number* **92460**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

Rebuild 2.5 miles of a 69kV transmission line from the Erskine Substation to the Mackenzie Substation. The transmission line is primarily constructed of 70-75 foot wood poles and has single-circuit or double-circuit distribution under-build for most of the line. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire, however the final determination of the conductor is subject to change based on engineering analyses. The line may be re-insulated for 115kV if deemed necessary, and is a design change that does not affect the operation of the line.

Rebuilding is a term used when a line has to be replaced, completely torn down, and rebuilt. A rebuild job is different from a re-conductor job, a re-conductor job only involves taking down the wires and hardware and replacing them with new hardware and larger wires. Installing a larger wire / conductor also lowers or decreases the resistance of the transmission line.

The project includes the estimated engineering, material, and construction cost associated with rebuilding the transmission line.

Project Justification

The existing 477 ACSR 69kV transmission line has exceeded its life expectancy as it was built in the 1960s. This is also a high impedance line restricting the power flow in the transmission system thus putting adjacent lines in danger of exceeding their capacity during emergency (N-1) conditions. The new transmission line may be insulated for 115kV, but the line will continue to be operated at 69kV until such time that the transmission planning group deems it necessary to prevent system overloads.

FERC Accounts: 350, 355, 356

Estimated Useful Life: 30 years

Project History

$2,200,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Reduced funding by $2,050,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
$155,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Increased appropriation by $225,000 per BCR 1718-08 on 8/15/18 with issuance of 30-year Electric Light & System Revenue Bonds, Series 2018.
Increased appropriation by $400,000 per BCR 1718-12 effective August 31, 2018.
$3,240,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$450,000 was appropriated in FY 2019-20, BCR# 1920-03, November 1, 2019.
Reduced appropriation by $340,000 per BCR 1920-04, January 31, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	4,130,000	0	0	0	0	0	0	4,130,000
Design and Engineering	150,000	0	0	0	0	0	0	150,000
Total Project Appropriation	4,280,000	0	0	0	0	0	0	4,280,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2016 LP&L Revenue Bonds	400,000	0	0	0	0	0	0	400,000
FY 2017 30-Year LP&L Revenue Bonds	150,000	0	0	0	0	0	0	150,000
FY 2018 30-Year LP&L Revenue Bonds	380,000	0	0	0	0	0	0	380,000
FY 2019 LP&L 30-Year Revolving Note Program	3,240,000	0	0	0	0	0	0	3,240,000
FY 2020 LP&L 30-Year Revolving Note Program	110,000	0	0	0	0	0	0	110,000
Total Funding Sources	4,280,000	0	0	0	0	0	0	4,280,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Yellow House Canyon Substation** *Project Number* **92464**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **New Facility**

Project Status **Approved**

Project Scope

Construct a new Yellow House Canyon substation, which will be a 115kV rated breaker-and-a-half substation. The new substation configuration, layout, and design will follow an initial substation assessment and LP&L planning criteria. The assessment will provide LP&L the best available options. The number of positions/breakers will be determined by the customer requirements and the land that is available at the proposed site. This current project includes the assessment of the substation requirements and budgetary estimate based on a two-transformer site with five-transmission line positions. The completed assessment will ultimately provide the engineering, materials, and construction costs associated with building this substation.

Project Justification

The new substation is required to provide greater reliability and supply the required power needs and also provide distribution support to the surrounding LP&L distribution system.

FERC Accounts: 350, 352, 353, 361, 362

Estimated Useful Life: 30 years

Project History

$500,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$2,345,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Reduced appropriation by $2,225,000 per BCR 1718-08 on 8/15/18 including reducing 20-year Electric Light & System Revenue Bonds, Series 2018.
$2,835,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$8,999,187 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
$300,000 was appropriated in FY 2019-20, BCR# 1920-8, June 3, 2020.
Increased $2,795,813 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	15,050,000	0	0	0	0	0	0	15,050,000
Design and Engineering	500,000	0	0	0	0	0	0	500,000
Total Project Appropriation	15,550,000	0	0	0	0	0	0	15,550,000

Project Name **Yellow House Canyon 115kV Station** *Project Number* **92464**

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2014 LP&L Revenue Bonds	514,448	0	0	0	0	0	0	514,448
FY 2015 LP&L Revenue Bonds	134,739	0	0	0	0	0	0	134,739
FY 2018 20-Year LP&L Revenue Bonds	120,000	0	0	0	0	0	0	120,000
FY 2019 LP&L 20-Year Revolving Note Program	4,565,000	0	0	0	0	0	0	4,565,000
FY 2020 LP&L 20-Year Revolving Note Program	10,215,813	0	0	0	0	0	0	10,215,813
Total Funding Sources	15,550,000	0	0	0	0	0	0	15,550,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Autotransformer - Co-op** *Project Number* **92466**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

Install one autotransformer at Co-op substation and connect it to the 69kV and 115kV system. The new 115/69kV autotransformer will be installed at the west end of the existing 115kV bus and will include the 115kV and 69kV breakers and disconnect switches to connect the 69kV system to the 115kV system.

The project will also include swapping/re-routing the incoming transmission lines from McCullough and Slaton substation into Coop, upgrading the existing 69kV bus, upgrading the 69/115kV bus protection, upgrading the 69/115kV transmission line protection to Wadsworth, installing a second battery bank and charger, and replacing the existing SCADA remote terminal unit (RTU).

The project includes an assessment that includes but is not limited to: analyzing the power flows through the substation and verifying the existing equipment will handle/carry the power/currents safely; and analyzing the existing Alternating Current (AC) Voltage and Direct Current (DC) Voltage system requirements. Any equipment that is found not capable or out of compliance will be upgraded to the new LP&L standard.

This project will include the engineering, materials, and construction costs associated with the installation of the autotransformer and associated work detailed above.

Project Justification

LP&L plans to convert and operate most of its substations at 115kV. Several substations, including Vicksburg, McCullough, Co-op, Mackenzie, Brandon, and Erskine, make up a 69kV inner loop that will remain in operation at 69kV inside the future 115kV outer loop which is comprised of the remainder of LP&L's substations. Co-op is one of the three substations that will house both 69kV and 115kV facilities. These two systems need to be electrically connected for proper system operation, and this autotransformer will allow LP&L to tie the 69kV system to the 115kV system. There will be 3 autotransformers located at three different substations (Co-op, Vicksburg, and Mackenzie). These autotransformers will allow the 69kV system load to be fed from the 115kV system.

The new relay protection for the 69/115kV autotransformer, transmission line, and bus are required to implement the new LP&L standard design for a fully integrated substation protection package. This protection is designed to quickly isolate faulted parts of the transmission system in order to protect the equipment, protect the unaffected parts of the system, and to improve the reliability of the transmission network. The relay protection includes primary and backup protection for all protection areas/schemes.

The installation of a second battery bank and charger will provide redundant direct current (DC) voltage sources to the relay protection throughout the substation. This will allow the primary protection to operate on preferred DC system (Primary) and the backup protection to operate on the back DC system (Secondary / Backup). This will eliminate a single point failure on the DC system.

The existing RTU cannot be upgraded, does not support the new communication protocol, and does not support the number of points required for the new equipment being installed. On an RTU, a point can be a hardwired connection or a software connection. The point can be any of three types; analog (amps, volts, watts, etc), status (alarms, open / closed indications, etc), or control (open, close, ON, OFF, etc) points. The new relays will also reduce and at times eliminate the need for hardwired connections to analog transducers and relay control boards.

The transmission line swap/re-route is required since the existing McCullough line is terminated on the future 115kV bus, but will remain on the inner 69kV loop. The Slaton line is currently terminated on the 69kV bus, but will need to terminate on a future 115kV bus.

FERC Accounts: 352, 353

Estimated Useful Life: 30 years

Project History

$400,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$1.8 million was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
$1,790,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$1,574,867 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Decreased $164,867 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	5,000,000	0	0	0	0	0	0	5,000,000
Design and Engineering	400,000	0	0	0	0	0	0	400,000
Total Project Appropriation	5,400,000	0	0	0	0	0	0	5,400,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 30-Year LP&L Revenue Bonds	878,002	0	0	0	0	0	0	878,002
FY 2018 30-Year LP&L Revenue Bonds	2,086,865	0	0	0	0	0	0	2,086,865
FY 2019 LP&L 30-Year Revolving Note Program	1,790,000	0	0	0	0	0	0	1,790,000
FY 2020 LP&L 30-Year Revolving Note Program	645,133	0	0	0	0	0	0	645,133
Total Funding Sources	5,400,000	0	0	0	0	0	0	5,400,000

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

Install one autotransformer at Mackenzie substation and connect it to the 69kV and 115kV system. The new 115/69kV autotransformer will be installed at the east end of the existing 115kV bus and will include the 115kV and 69kV breakers and disconnect switches to connect the 69kV system to the 115kV system.

This project will include upgrading the existing 69kV bus protection, upgrading the 69/115kV transmission line protection to the Erskine, Slaton, and Northeast substation, installing a second battery bank and charger, and replacing the existing SCADA remote terminal unit (RTU).

The project includes an assessment that includes but is not limited to: analyzing the power flows through the substation and verifying the existing equipment will handle/carry the power/currents safely; and analyzing the existing Alternating Current (AC) Voltage and Direct Current (DC) Voltage system requirements. Any equipment that is found not capable or out of compliance will be upgraded to the new LP&L standard.

This project will include the engineering, materials, and construction costs associated with the installation of the autotransformer and associated work detailed above.

Project Justification

LP&L plans to convert and operate most of its substations at 115kV. Several substations, including Vicksburg, McCullough, Co-op, Mackenzie, Brandon, and Erskine, make up a 69kV inner loop that will remain in operation at 69kV inside the future 115kV outer loop which is comprised of the remainder of LP&L's substations. Mackenzie is one of the three substations that will house both 69kV and 115kV facilities. These two systems need to be electrically connected for proper system operation, and this autotransformer will allow LP&L to tie the 69kV system to the 115kV system. There will be three autotransformers located at three different substations (Co-op, Vicksburg, and Mackenzie). These autotransformers will allow the 69kV system load to be fed from the 115kV system.

The new relay protection for the 69/115kV autotransformer, transmission lines, and busses are required to implement the new LP&L standard design for a fully integrated substation protection package. This protection is designed to quickly isolate faulted parts of the transmission system in order to protect the equipment, protect the unaffected parts of the system, and to improve the reliability of the transmission network. The relay protection includes primary and backup protection for all protection areas/schemes.

The installation of a second battery bank and charger will provide redundant direct current (DC) voltage sources to the relay protection throughout the substation. This will allow the primary protection to operate on preferred DC system (Primary) and the backup protection to operate on the back DC system (Secondary / Backup). This will eliminate a single point failure on the DC system.

The existing RTU cannot be upgraded, does not support the new communication protocol, and does not support the number of points required for the new equipment being installed. On an RTU, a point can be a hardwired connection or a software connection. The point can be any of three types; analog (amps, volts, watts, etc), status (alarms, open / closed indications, etc), or control (open, close, ON, OFF, etc) points. The new relays will also reduce, and at times eliminate, the need for hardwired connections to analog transducers and relay control boards.

FERC Accounts: 352, 353

Estimated Useful Life: 30 years

Project History
$400,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$2,015,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
$2,315,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$1,000,000 was appropriated in FY 2018-19 Budget Amendment No. 7, Ord. No 2019-O0012, February 12,2019.
$275,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Decreased $705,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	4,900,000	0	0	0	0	0	0	4,900,000
Design and Engineering	400,000	0	0	0	0	0	0	400,000
Total Project Appropriation	5,300,000	0	0	0	0	0	0	5,300,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 30-Year LP&L Revenue Bonds	400,000	0	0	0	0	0	0	400,000
FY 2018 30-Year LP&L Revenue Bonds	2,015,000	0	0	0	0	0	0	2,015,000
FY 2019 LP&L 30-Year Revolving Note Program	2,885,000	0	0	0	0	0	0	2,885,000
Total Funding Sources	5,300,000	0	0	0	0	0	0	5,300,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Substation Rebuild - Holly** *Project Number* **92469**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope
Construct a new 115kV ring bus inside the existing Holly site. This includes installing a new 115/69kV autotransformers to connect the existing 69kV busses to the new 115kV bus sections.

This project will include terminating the existing 69kV lines into the new 115kV substation bus, installing new relay protection for the new 115kV sections, and installing a new control enclosure to house all of the controls, relay protection, SCADA system, fiber optic connections, and systems required to operate the new 115kV section.

This project will include an assessment of the substation that will provide more details and specifications about the ultimate substation configuration, the number of breakers, transformers, and relay panels required. This project also includes the assessment of the site, engineering, design, and construction budgetary costs associated with rebuilding this substation.

Project Justification
LP&L plans to convert and operate most of its substations at 115kV. Several substations, including Holly will remain in operation at 69kV. Holly is one substation that will house both 69kV and 115kV facilities. These two systems need to be electrically connected for proper system operation, a new autotransformer will allow LP&L to tie the 69kV system to the 115kV system. This autotransformer will allow the 69kV system generation to feed onto the 115kV system and provide reliability and redundancy for LP&L Production.

The new relay protection for the 69/115kV autotransformers, transmission lines, and busses are required to implement the new LP&L standard design for a fully integrated substation protection package. This protection is designed to quickly isolate faulted parts of the transmission system in order to protect the equipment, protect the unaffected parts of the system, and to improve the reliability of the transmission network. The relay protection includes primary and backup protection for all protection areas/schemes.

FERC Accounts: 352, 353

Estimated Useful Life: 30 years

Project History
$1,500,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$4,070,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Reduced appropriation by $4,000,000 per BCR 1718-08 on 8/15/18 by reducing issuance of 30-year Electric Light & System Revenue Bonds, Series 2018.
$3,170,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$4,060,000 was appropriated in FY 2018-19, BCR# 1819-09, March 4, 2019.
$530,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Reduced appropriation by $1,250,000 in FY 2019-20, BCR# 1920-08, June 3, 2020.
Decreased $1,280,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

Project Name **Substation Rebuild - Holly** *Project Number* **92469**

Appropriation Detail	Appropriation to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	5,300,000	0	0	0	0	0	0	5,300,000
Design and Engineering	1,500,000	0	0	0	0	0	0	1,500,000
Total Project Appropriation	6,800,000	0	0	0	0	0	0	6,800,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 30-Year LP&L Revenue Bonds	1,500,000	0	0	0	0	0	0	1,500,000
FY 2018 30-Year LP&L Revenue Bonds	70,000	0	0	0	0	0	0	70,000
FY 2019 LP&L 30-Year Revolving Note Program	5,230,000	0	0	0	0	0	0	5,230,000
Total Funding Sources	6,800,000	0	0	0	0	0	0	6,800,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Substation Rebuild - Oliver** *Project Number* **92470**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope
Rebuild Oliver substation from a 69kV main transfer station to a 115kV substation. The five breaker 69kV substation is currently rated for 69kV and must be rebuilt to 115kV to accommodate the 115kV system conversion.

The new substation configuration, layout, and design will follow an initial substation assessment and LP&L planning criteria. The assessment will provide LP&L the best available options.

A rebuild of the station to a six position ring bus will be considered to increase bus capacity and reliability. This project includes engineering, material, and construction costs associated with rebuilding the substation.

Project Justification
The existing 69kV substation is critical to the operation of the LP&L system and needs to be converted to 115kV. The five breaker 69kV substation is currently rated for 69kV and must be rebuilt to 115kV to accommodate the 115kV system conversion.

FERC Accounts: 352, 353

Estimated Useful Life: 30 years

Project History
$3,000,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Reduced funding by $2,400,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
$1,555,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Reduced funding by $2.0 million in FY 2017-18 Budget Amendment No. 13, Ord. No. 2018-O0057, May 24, 2018.
$720,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$6,855,000 was appropriated in FY 2018-19, BCR# 1819-09, March 4, 2019.
$510,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Decreased $1,490,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	6,595,000	0	0	0	0	0	0	6,595,000
Design and Engineering	155,000	0	0	0	0	0	0	155,000
Total Project Appropriation	6,750,000	0	0	0	0	0	0	6,750,000

Project Name **Substation Rebuild - Oliver** *Project Number* **92470**

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 30-Year LP&L Revenue Bonds	155,000	0	0	0	0	0	0	155,000
FY 2019 LP&L 30-Year Revolving Note Program	6,595,000	0	0	0	0	0	0	6,595,000
Total Funding Sources	6,750,000	0	0	0	0	0	0	6,750,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Posey Substation** *Project Number* **92473**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **New Facility**

Project Status **Approved**

Project Scope

This project covers the engineering, purchase, installation, and testing of two (2) 345/115kV auto transformers; two (2) 345kV breakers; a new 115kV yard to accommodate the line to Oliver (92661), line to Southeast (92533), and the two transformer positions; and other equipment to establish the 345/115kV substation.This work is being completed by Oncor utilizing an EPC model. LP&L is providing engineering review and general construction oversight.

Project Justification

The "4ow" approved by the PUCT, calls for two (2) 345/115kV transformers and a new 115kV Posey station.

FERC Accounts: 350, 352, 353

Estimated Useful Life: 30 years

Project History

$1,600,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Reduced funding by $1,600,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
$1,535,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
$6,885,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$9,925,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Increased $1,545,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	18,355,000	0	0	0	0	0	0	18,355,000
Design and Engineering	1,535,000	0	0	0	0	0	0	1,535,000
Total Project Appropriation	19,890,000	0	0	0	0	0	0	19,890,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 30-Year LP&L Revenue Bonds	1,535,000	0	0	0	0	0	0	1,535,000
FY 2019 LP&L 30-Year Revolving Note Program	6,885,000	0	0	0	0	0	0	6,885,000
FY 2020 LP&L 30-Year Revolving Note Program	11,470,000	0	0	0	0	0	0	11,470,000
Total Funding Sources	19,890,000	0	0	0	0	0	0	19,890,000

Project Name **Yellow House Canyon 345/115 kV Transformers** *Project Number* **92474**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **New Facility**

Project Status **Approved**

Project Scope
This project covers the engineering, purchase, and installation of two (2) 345/115kV Auto Transformers. It also covers the engineering and purchase of two (2) 345kV breakers, which LP&L will install.

Project Justification
The "4ow" approved by the PUCT, calls for two (2) 345/115kV transformers at LP&L's Yellow House Canyon station.

FERC Accounts: 350,352,353

Estimated Useful Life: 30 years

Project History
$1,600,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Reduced funding by $1,600,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
$1,535,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
$6,885,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$9,925,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
$500,000 was appropriated in FY 2019-20, BCR# 1920-03, November 1, 2019.
Reduced appropriation by $6,600,000 in FY 2019-20, BCR# 1920-08, June 3, 2020.
Decreased $1,495,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	9,215,000	0	0	0	0	0	0	9,215,000
Design and Engineering	1,535,000	0	0	0	0	0	0	1,535,000
Total Project Appropriation	10,750,000	0	0	0	0	0	0	10,750,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 30-Year LP&L Revenue Bonds	1,535,000	0	0	0	0	0	0	1,535,000
FY 2019 LP&L 30-Year Revolving Note Program	6,885,000	0	0	0	0	0	0	6,885,000
FY 2020 LP&L 30-Year Revolving Note Program	2,330,000	0	0	0	0	0	0	2,330,000
Total Funding Sources	10,750,000	0	0	0	0	0	0	10,750,000

Project Name **Dunbar 345/115kV Transformers** *Project Number* **92475**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **New Facility**

Project Status **Approved**

Project Scope
This project covers the engineering, purchase, and installation of two 345/115kV Auto Transformers. It also covers the engineering and purchase of two 345kV breakers, which LP&L will install.

Project Justification
The "4ow" approved by the PUCT, calls for two 345/115kV transformers at LP&L's Dunbar station.

FERC Accounts: 350, 352, 353

Estimated Useful Life: 30 years

Project History
$1,600,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Reduced funding by $1,600,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
$1,535,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
$6,885,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$4,220,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Decreased $960,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	10,145,000	0	0	0	0	0	0	10,145,000
Design and Engineering	1,535,000	0	0	0	0	0	0	1,535,000
Total Project Appropriation	11,680,000	0	0	0	0	0	0	11,680,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 30-Year LP&L Revenue Bonds	1,535,000	0	0	0	0	0	0	1,535,000
FY 2019 LP&L 30-Year Revolving Note Program	6,885,000	0	0	0	0	0	0	6,885,000
FY 2020 LP&L 30-Year Revolving Note Program	3,260,000	0	0	0	0	0	0	3,260,000
Total Funding Sources	11,680,000	0	0	0	0	0	0	11,680,000

Project Name **69/115kV Line Rebuild: Holly-Southeast** *Project Number* **92477**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

Rebuild 3.79 miles of a 69kV transmission line from the Holly Substation to the Southeast Substation. The transmission line is primarily constructed of 70-75 foot wood poles and has single-circuit or double-circuit distribution under-build for most of the line. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire, however the final determination of the conductor is subject to change based on engineering analyses. The line will be insulated for 115kV, but will operate at 69kV until the system is converted to 115kV.

Rebuilding is a term used when a line has to be replaced, completely torn down, and rebuilt. A rebuild job is different from a re-conductor job, as a re-conductor job only involves taking down the wires and replacing them with new larger wires. Installing a larger wire/conductor also lowers or decreases the resistance of the transmission line. This project includes the estimated engineering, material, and construction cost associated with rebuilding the transmission line.

Project Justification

The existing 477 ACSR/571.7 aluminum conductor self-supporting trapezoidal wire (ACSS/TW) 69kV transmission line has exceeded its life expectancy. This high impedance line is restricting the power flow in the transmission system thus putting adjacent lines in danger of exceeding their capacity during emergency (N-1) conditions. The new transmission line is required to be insulated for 115kV in order to tie into the ERCOT power grid.

FERC Accounts: 350, 355, 356

Estimated Useful Life: 30 years

Project History

$250,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$2,575,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Reduced appropriation by $2,500,000 per BCR 1718-08 on 8/15/18 and decreasing issuance of 30-year Electric Light & System Revenue Bonds, Series 2018.
$350,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$2,155,000 was appropriated in FY 2018-19, BCR# 1819-09, March 4, 2019.
$4,875,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
$2,750,000 is appropriated in the FY 2019-20 Budget, Ord. No. 2020-O0039, March 24, 2020.
Decreased $1,455,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	8,750,000	0	0	0	0	0	0	8,750,000
Design and Engineering	250,000	0	0	0	0	0	0	250,000
Total Project Appropriation	9,000,000	0	0	0	0	0	0	9,000,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 30-Year LP&L Revenue Bonds	250,000	0	0	0	0	0	0	250,000
FY 2018 30-Year LP&L Revenue Bonds	75,000	0	0	0	0	0	0	75,000
FY 2019 LP&L 30-Year Revolving Note Program	2,505,000	0	0	0	0	0	0	2,505,000
FY 2020 LP&L 30-Year Revolving Note Program	6,170,000	0	0	0	0	0	0	6,170,000
Total Funding Sources	9,000,000	0	0	0	0	0	0	9,000,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **69/115kV Line Rebuild: Holly-Slaton** *Project Number* **92478**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

Rebuild 3.25 miles of a 69kV transmission line from the Holly Substation to the Slaton Substation. The transmission line is primarily constructed of 70-75 foot wood poles and has single-circuit or double-circuit distribution under-build for most of the line. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire, however the final determination of the conductor is subject to change based on engineering analyses. The line will be insulated for 115kV, but will operate at 69kV until the system is converted to 115kV. Slaton Substation is moving geographical locations, thus this scope will include tieing the transmission line into the new Slaton Substation location. This will require new structures near the new Slaton Substation location.

Rebuilding is a term used when a line has to be replaced, completely torn down, and rebuilt. A rebuild job is different from a re-conductor job, as a re-conductor job only involves taking down the wires and replacing them with new larger wires. Installing a larger wire/conductor also lowers or decreases the resistance of the transmission line. This project includes the estimated engineering, material, and construction cost associated with rebuilding the transmission line.

Project Justification

The existing 795 ACSR 69kV transmission line is not insulated to operate at 115kV. The new transmission line is required to be insulated for 115 kV in order to tie into the ERCOT power grid.

FERC Accounts: 350, 355, 356

Estimated Useful Life: 30 years

Project History

$200,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
$2,385,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Reduced appropriation by $1,500,000 per BCR 1718-08 on 8/15/18 and decreasing the issuance of 30-year Electric Light & System Revenue Bonds, Series 2018.
$870,000 was appropriated in FY 2018-19, BCR# 1819-09, March 4, 2019.
$4,130,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
$950,000 was appropriated in FY 2019-20, BCR# 1920-03, November 1, 2019.
Increased $465,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	7,300,000	0	0	0	0	0	0	7,300,000
Design and Engineering	200,000	0	0	0	0	0	0	200,000
Total Project Appropriation	7,500,000	0	0	0	0	0	0	7,500,000

Project Name **69/115kV Line Rebuild: Holly-Slaton** *Project Number* **92478**

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years					Total Funding
			FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
FY 2017 30-Year LP&L Revenue Bonds	200,000	0	0	0	0	0	0	200,000
FY 2018 30-Year LP&L Revenue Bonds	885,000	0	0	0	0	0	0	885,000
FY 2019 LP&L 30-Year Revolving Note Program	1,254,895	0	0	0	0	0	0	1,254,895
FY 2020 LP&L 30-Year Revolving Note Program	5,160,105	0	0	0	0	0	0	5,160,105
Total Funding Sources	7,500,000	0	0	0	0	0	0	7,500,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years					Total Impact
		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **69/115kV Line Rebuild: Southeast-Oliver** *Project Number* **92480**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

Rebuild 2.03 miles of a 69kV transmission line from the Southeast Substation to the Oliver Substation. The transmission line is primarily constructed of 70-75 foot wood poles and has single-circuit or double-circuit distribution under-build for most of the line. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire, however the final determination of the conductor is subject to change based on engineering analyses. The line will be insulated for 115kV, but will operate at 69kV until the system is converted to 115kV.

Rebuilding is a term used when a line has to be replaced, completely torn down, and rebuilt. A rebuild job is different from a re-conductor job, as a re-conductor job only involves taking down the wires and replacing them with new larger wires. Installing a larger wire/conductor also lowers or decreases the resistance of the transmission line. This assessment will also analyze and verify that the existing dead end steel pole conductor clearances meet National Electrical Safety Code (NESC) clearances for operating the transmission at 115kV. This project includes the estimated engineering, material, and construction costs associated with rebuilding the transmission line.

Project Justification

The existing 477 aluminum conductor steel reinforced wire (ACSR) 69kV transmission line has exceeded its life expectancy. This high impedance line is restricting the power flow in the transmission system thus putting adjacent lines in danger of exceeding their capacity during emergency (N-1) conditions. The new transmission line is required to be insulated for 115 kV in order to tie into the ERCOT power grid.

FERC Accounts: 350, 355, 356

Estimated Useful Life: 30 years

Project History

$1,800,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Reduced funding by $825,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
Increased appropriation by $2,615,000 per BCR 1718-08 on 8/15/18 by increasing issuance of 30-year Electric Light & System Revenue Bonds, Series 2018.
$575,000 was appropriated in FY 2019-20, BCR# 1920-03, November 1, 2019.
$500,000 was appropriated in FY 2019-20, BCR# 1920-04, January 31, 2020.
$500,000 was appropriated in FY 2019-20, BCR# 1920-08, June 3, 2020.
Decreased $265,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	4,400,000	0	0	0	0	0	0	4,400,000
Design and Engineering	500,000	0	0	0	0	0	0	500,000
Total Project Appropriation	4,900,000	0	0	0	0	0	0	4,900,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 30-Year LP&L Revenue Bonds	975,000	0	0	0	0	0	0	975,000
FY 2018 30-Year LP&L Revenue Bonds	2,615,000	0	0	0	0	0	0	2,615,000
FY 2019 LP&L 30-Year Revolving Note Program	340,000	0	0	0	0	0	0	340,000
FY 2020 LP&L 30-Year Revolving Note Program	970,000	0	0	0	0	0	0	970,000
Total Funding Sources	4,900,000	0	0	0	0	0	0	4,900,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Substation Upgrades** *Project Number* **92484**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

Replace the transmission line relay protection on the transmission lines out of the substations and assess the substations to determine if any modifications or upgrades are required in preparation for the new system configuration following the installation of the 115kV transmission loop. The assessment includes but is not limited to: analyzing the power flows through the substations and verifying the existing equipment will handle/carry the power/currents safely; and analyzing the existing Alternating Current (AC) Voltage and Direct Current (DC) Voltage system requirements. The project includes the engineering, design, materials, and construction costs associated with upgrading the following substations: Wadsworth, Erskine, Brandon, Northwest, McCullough, and Thompson.

Project Justification

The existing electromechanical transmission line protection relays in the affected substations do not provide adequate protection. The installation of microprocessor relays will allow LP&L to further improve the reliability of the transmission system by providing adequate and redundant protection. These new digital relays will constantly monitor the health of the system, instantly alarm for abnormal conditions, and more importantly clear system disturbances quickly and as necessary. The current transformers (CTs) in the existing circuit breakers do not have the proper ratings required, thereby reducing the rating of the transmission line. The transmission line rating is what determines how much power the transmission lines can safely carry. The load flows on the 69kV transmission system will be compared to the rating of the substation current carrying equipment. This equipment will need to be replaced if the current ratings do not meet or exceed the requirements.

FERC Accounts: 353

Estimated Useful Life: 30 years

Project History

$510,000 was appropriated in the FY 2016-17 Budget, Ord. No. 2016-O0135, September 8, 2016.
Appropriated $105,000 in FY 2016-17 Budget Amendment No. 28, Ord. No. 2017-O0058, May 25, 2017.
$3,510,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Reduced funding by $2.4 million in FY 2017-18 Budget Amendment No. 13, Ord. No. 2018-O0057, May 24, 2018.
$1,410,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$2,215,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	5,350,000	0	2,415,000	0	0	0	0	7,765,000
Total Project Appropriation	5,350,000	0	2,415,000	0	0	0	0	7,765,000

Project Name **Substation Upgrades** *Project Number* **92484**

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 30-Year LP&L Revenue Bonds	615,000	0	0	0	0	0	0	615,000
FY 2018 30-Year LP&L Revenue Bonds	1,110,000	0	0	0	0	0	0	1,110,000
FY 2019 LP&L 30-Year Revolving Note Program	1,410,000	0	0	0	0	0	0	1,410,000
FY 2020 LP&L 30-Year Revolving Note Program	2,215,000	0	0	0	0	0	0	2,215,000
FY 2022 30-Year LP&L Revenue Bonds	0	0	2,415,000	0	0	0	0	2,415,000
Total Funding Sources	5,350,000	0	2,415,000	0	0	0	0	7,765,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Posey to Southeast 115kV Line** *Project Number* **92533**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **New Facility**

Project Status **Approved**

Project Scope

The “4ow” approved by the PUCT requires two (2) 115kV feeds into LP&L's existing south loop. This line fulfills one of those needs. The transmission line conductor is planned to be 959.6 aluminum conductor steel supported thermal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire. However, the final determination of the conductor is subject to change based on the engineering analysis of the physical construction. The primary factor to consider is the percent loading of the line and the effective sag it has on the line. The project includes the estimated engineering, ROW acquisition, material, and construction cost associated with constructing the transmission line. This work is being completed by Oncor utilizing an EPC model. LP&L is providing engineering review and general construction oversight.

Project Justification

The existing topology of the transmission system shows no 115kV transmission south of the existing Oliver Substation, however, the ERCOT integration will require additional 115 kV transmission lines to tie into the 345 kV ERCOT power grid. This line will be one of the three.

The "4ow" approved by the PUCT, calls for two (2) 115kV feeds from Posey substation. Posey to Southeast and Posey to Oliver transmission lines must be independent projects.

FERC Accounts: 350, 355, 356

Estimated Useful Life: 30 years

Project History

$1,025,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
$14,725,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$8,195,000 was appropriated from CIP 92534 in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Reduced appropriation by $14,702,427 in FY 2019-20 Budget Amendment No. 4, Ord. No. 2019-O0158, November 19, 2019.
Decreased $3,302,573 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	4,915,000	0	0	0	0	0	0	4,915,000
Design and Engineering	1,025,000	0	0	0	0	0	0	1,025,000
Total Project Appropriation	5,940,000	0	0	0	0	0	0	5,940,000

Project Name **Posey to Southeast 115kV Line** *Project Number* **92533**

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years					Total Funding
			FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
FY 2018 30-Year LP&L Revenue Bonds	1,025,000	0	0	0	0	0	0	1,025,000
FY 2019 LP&L 30-Year Revolving Note Program	4,915,000	0	0	0	0	0	0	4,915,000
Total Funding Sources	5,940,000	0	0	0	0	0	0	5,940,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years					Total Impact
		FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **GIS Software Upgrades and Interfaces** *Project Number* **92537**

Managing Department **7711-Regional Market Admin & Compliance**

Project Manager **Jeff Baker**

Project Classification **Administrative**

Project Status **Approved**

Project Scope
Installation and configuration of Geographic Information Systems (GIS) software and equipment to replace the existing Smallworld system, including training of Engineering and GIS personnel. The project also includes the acquisition of software, equipment and training for other GIS-related systems.

Project Justification
LP&L will utilize the GIS Software to obtain:
• industry-specific quality assurance/quality control tools to validate, verify and correct data, as well as integrated and efficient engineering and design functionality;
• reduced engineering and design workload by automating cost estimates and materials list generation using compatible units, complemented by built-in overhead design analysis tools;
• compatibility with existing City of Lubbock, GIS datasets, enabling “drag and drop” sharing of information with other City departments and eliminating redundant work; and
• enhanced web map publishing capabilities to deliver the latest up-to-date network data throughout the organization & enhanced mobile capabilities for viewing and collecting network data.

The LP&L GIS is the data backbone of the Distribution Operations and Engineering Departments. The Outage Management System depends on GIS data for an accurate representation of LP&L facilities. Additionally, the Construction Engineering Department routinely has 150-200 projects in progress in the GIS at any given time.

FERC Accounts: 382,383,390

Estimated Useful Life: 10 years

Project History
$2,115,000 was appropriated in the FY 2017-18 Budget, Ord. No. 2017-O0111, October 1, 2017.
Reduced appropriation by $900,000 per BCR 1718-08 on 8/15/18 and decreasing issuance of 10 year Electric Light & System Revenue Bonds, Series 2018.
$510,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$440,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Decreased $400,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Technology	1,765,000	0	420,000	0	0	0	0	2,185,000
Total Project Appropriation	1,765,000	0	420,000	0	0	0	0	2,185,000

Project Name **GIS Software Upgrades and Interfaces** *Project Number* **92537**

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 10-Year LP&L Revenue Bonds	1,215,000	0	0	0	0	0	0	1,215,000
FY 2019 LP&L Cash	510,000	0	0	0	0	0	0	510,000
FY 2020 LP&L Cash	40,000	0	0	0	0	0	0	40,000
FY 2022 LP&L Cash	0	0	420,000	0	0	0	0	420,000
Total Funding Sources	1,765,000	0	420,000	0	0	0	0	2,185,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Dunbar-Manhattan Heights Underground Conversion** *Project Number* **92586**

Managing Department **7418-Distribution Engineering Construction**

Project Manager **Jarrod Huse**

Project Classification **Upgrade/Major Maintenance**

Project Status **Approved**

Project Scope

Geographic project boundaries are as follows: E. 28th St/Canyon Lake Dr. to the north, Canyon Lake Dr. to the east, Lubbock Cemetery to the south and Teak Ave. to the west. Installation of new underground electric distribution system to serve existing residential neighborhood, currently served by overhead facilities. Installation of new underground feeder line through alley between E 30th St & Lubbock Cemetery. Relocation of street light feeds to underground. Removal of overhead electric facilities. This includes all necessary material, labor, equipment, engineering & project management costs. Excluded from this project's scope are applicable costs to telecommunication companies to relocate their facilities underground and to vacate poles for removal. Also excluded are hiring electrician(s) to relocate customer owned electric facilities underground on private property to meet new service pedestals in alleys.

Project Justification

Older Lubbock neighborhoods constructed prior to 1978 are served by overhead facilities. Councilwoman Sheila Patterson Harris has requested the project to improve aesthetics in this historic neighborhood.

Project History

$1,210,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	1,210,000	0	0	0	0	0	0	1,210,000
Total Project Appropriation	1,210,000	0	0	0	0	0	0	1,210,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2019 LP&L 20-Year Revolving Note Program	1,210,000	0	0	0	0	0	0	1,210,000
Total Funding Sources	1,210,000	0	0	0	0	0	0	1,210,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **7513-Customer Service**

Project Manager **Jamie Cook**

Project Classification **Administrative**

Project Status **Approved**

Project Scope
Professional services and licenses to upgrade the City of Lubbock Utilities'/LP&L's interactive voice response (IVR) system. The City will be migrating and needs to upgrade the IVR for the new environment. The project will be completed prior to the move to Citizen's Tower and the new City of Lubbock Utilities Customer Service Facility.

The IVR currently allows customers the opportunity to connect with the customer service and outage management departments of the City of Lubbock Utilities and LP&L. IVRs are typically applied to two areas of utility operations: customer service applications and outage call handling. The annual inbound call volume handled by Customer Service Representatives (CSRs) is 270,000 with an additional 14,000 handled by after-hours staff. The annual outbound call volume to customers is 395,000.

IVR interfaces with the following systems:
1. Outage Management
2. Customer Information System
3. Bill payment service

Customer service applications typically include, but are not limited to customer account inquiry, bill payment, payment arrangements, scheduling new service, scheduling disconnects, scheduling re-connects, and customer notifications.

The IVR solution must be online 365 days per year; be available nights, weekends, and holidays; be equipped with speech recognition; provide a true end-to-end view of the call including transfers; provide "cradle-to-grave" audio recordings as well as associated Customer Information System (CIS) screen captures; and provide skills based routing.

Project Justification
Implementing a new IVR will improve customer service by providing a flexible system that offers 99.9% uptime to the customer (busy signal/overflow); allowing 24/7 transactions, alleviating high call volume via self-service channels; allowing the ability to provide announcements, music on hold, and other voice services to the customer; and improving statistical information gathering regarding incoming calls.

The handling of outage calls with an IVR differs considerably from handling routine business calls with an IVR. The value of an outage call handling IVR should therefore be determined by somewhat different standards. Many, if not most, outages occur outside of normal business hours. When an outage occurs after hours, the utility is typically short staffed and customer service suffers when telephone calls go unanswered. In many cases when outages occur during normal business hours, staff members must be taken off their normal tasks to assist with handling the outage. Properly applied, an IVR can shorten crew response times and hasten restoration and can considerably lighten the Dispatcher's load during outages. By optimizing how customer time is spent during the call, the call center can simultaneously achieve both greater efficiency and improved caller satisfaction.

FERC Accounts: 383.1, 384.7
Estimated Useful Life: 10 years

Project History
$620,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.

Appropriation Detail	Appropriation to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Technology	620,000	0	0	0	0	0	0	620,000
Total Project Appropriation	620,000	0	0	0	0	0	0	620,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2019 LP&L Cash	620,000	0	0	0	0	0	0	620,000
Total Funding Sources	620,000	0	0	0	0	0	0	620,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **7414-Distribution Load Dispatching**

Project Manager **Melissa Saddler**

Project Classification **Upgrade/Major Maintenance**

Project Status **Approved**

Project Scope

Supervisory Control and Data Acquisition (SCADA) System equipment for the backup control center; Outage Management System (OMS) interface to the new Geographic Information System (GIS); OMS system interface to the new Advanced Metering Infrastructure (AMI) system; OMS system interface to new Customer Information System (CIS); OMS system interface to new Asset Management System (AMS); and Network Restore.

Project Justification

SCADA System equipment for the backup control center: North American Electric Reliability Corporation (NERC) regulations require a backup control system. The SCADA system provides system monitoring of the tie lines and components deemed as transmission assets. These transmission assets are subject to NERC regulations. The SCADA system provides transmission and generation data to the Southwest Power Pool (SPP) through an Inter-Control Center Communications Protocol (ICCP) link. LP&L must maintain full and continuous supervision and control of power system operations during major and unexpected emergencies without loss of current and historical operational data. The SCADA system is currently housed in one location. A disaster would cause detrimental down time and loss of historical data.

SCADA System Upgrade:
Upgrade SCADA system hardware and software. The upgrade is necessary to ensure the software is up to date to continue vendor support, security, and enhancements. The upgrade will replace servers that are approaching over 5 years in production. This project will also upgrade all software of the SCADA and supporting systems.

OMS interface to the new GIS: The GIS model is exported into the SCADA system. The data model, data tables, conversion process and program scripts will need to be written for use with new data tables and information.

OMS Interface Update to GIS:
The GIS system will implement an upgrade of the software and the data model. The interface to the OMS will require an update to be able to accommodate the changes in the GIS model.

OMS system interface to the new AMI system: An AMI system serves different purposes for an electric utility. A major purpose is reporting outages to an OMS. The OMS currently relies on either an event from the SCADA system or calls reported by customers in order to predict the most likely source of the outage. The addition of meter status from the AMI meters will provide more accurate reporting of outages and will allow for more precise outage source location prediction.

OMS system interface to the new CIS system: The OMS customer database is provided by a daily data exchange file from the CIS. If there are changes to customer accounts after the data update, the operations center is not updated with this information. Work order information between the CIS system and OMS system must be exchanged. Currently there is no interface between the two systems, thus requiring the Operations department to use paper tickets generated from the CIS system that are routed to the printer. These orders are entered into the OMS system for accurate historic capturing and for field dispatching. A report from the OMS system is generated for completion of meter orders in the CIS system. This is currently done by manual entry. An interface will allow data exchange between the two systems, updating of both systems as needed and eliminate the need for manual entry.

OMS system interface to the new AMS: The OMS provides the real time system and work order information for the crews in the field and for the System Operators to the system map. Any work being done on the system must be reflected on the dynamic, real time system map for safety, outage restoration and real time decisions. An interface is needed so that work entered in for the crews is represented on the system map and network map and time tracking is reported back to the AMS.

Restore: A system that will allow automatic/scheduled backups for the SCADA system. During a recent audit the auditors recommended an automated backup system for protected cyber assets.

Vulnerability and Risk Management Software: Purchase software to help identify vulnerabilities and risks to LP&L's cyber systems. This software will assist in providing support for NERC CIP requirements.
FERC Accounts: 382, 383, 390

Estimated Useful Life: 10 years

Project History

$615,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$200,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Furnishings, Fixtures, and Equipment	615,000	200,000	210,000	215,000	0	0	0	1,240,000
Total Project Appropriation	615,000	200,000	210,000	215,000	0	0	0	1,240,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2019 LP&L Cash	615,000	0	0	0	0	0	0	615,000
FY 2021 LP&L Cash	0	200,000	0	0	0	0	0	200,000
FY 2022 LP&L Cash	0	0	210,000	0	0	0	0	210,000
FY 2023 LP&L Cash	0	0	0	215,000	0	0	0	215,000
Total Funding Sources	615,000	200,000	210,000	215,000	0	0	0	1,240,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

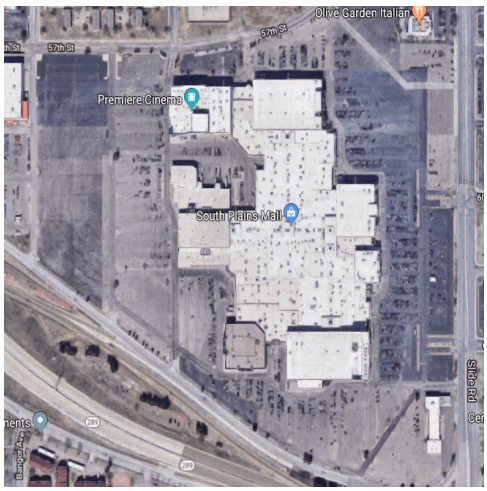
Project Name **South Plains Mall Expansion** *Project Number* **92606**

Managing Department **7411-Distribution Supervision & Engineering**

Project Manager **Paul Koberlein**

Project Classification **Upgrade/Major Maintenance**

Project Status **Approved**



Project Scope

Upgrade, re-route, replace & install new distribution facilities as needed on South Plains Mall property to accommodate major expansion. This includes all necessary material, equipment, labor, contract, and engineering services.

Project Justification

In February of 2018, South Plains Mall approached LP&L about an ambitious plan for expansion. Their initial schedule indicates construction to start on the first phase in early 2018, with completion of the last phase by early 2021. This expansion calls for multiple primary lines to be re-routed or removed in addition to new installations to serve new tenants at the mall.

FERC Account: 366, 367, 368, 374

Estimated Useful Life: 40 years

Project History

$410,000 was appropriated in the FY 2018-19 Budget, Ord. No. 2018-O0109, October 1, 2018.
$425,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	835,000	0	165,000	0	0	0	0	1,000,000
Total Project Appropriation	835,000	0	165,000	0	0	0	0	1,000,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2019 LP&L 20-Year Revolving Note Program	410,000	0	0	0	0	0	0	410,000
FY 2020 LP&L 20-Year Revolving Note Program	425,000	0	0	0	0	0	0	425,000
FY 2022 LP&L Revenue Bonds	0	0	165,000	0	0	0	0	165,000
Total Funding Sources	835,000	0	165,000	0	0	0	0	1,000,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

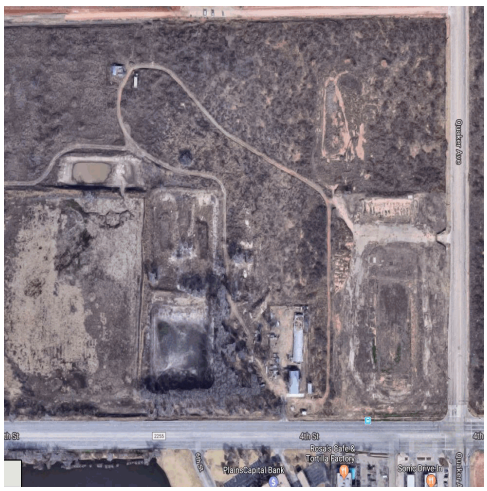
Project Name **Red Raider Substation Distribution Feeders** *Project Number* **92608**

Managing Department **7411-Distribution Supervision & Engineering**

Project Manager **Jarrod Huse**

Project Classification **New Facility**

Project Status **Approved**



Project Scope

Install eight new distribution feeder lines from Red Raider Substation. This includes 4 dedicated circuits to TTU that will be routed from Quaker Ave to the TTU campus.

Project Justification

Red Raider Substation was built to serve LP&L's system distribution needs as well as provide additional circuits to handle increasing electrical demand from TTU. These new feeder circuits will connect the new substation to existing circuits both on and off campus.

FERC Accounts: 364, 365, 366, 367
Estimated Useful Life: 40 years

Project History

$4,985,000 was appropriated in the FY 2018-19 Budget Amendment No. 5, Ord. No. 2019-O0001, January 22,2019.
$515,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Decreased $1,500,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	4,000,000	0	1,565,000	0	0	0	0	5,565,000
Total Project Appropriation	4,000,000	0	1,565,000	0	0	0	0	5,565,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2019 LP&L 20-Year Revolving Note Program	4,000,000	0	0	0	0	0	0	4,000,000
FY 2022 LP&L Revenue Bonds	0	0	1,565,000	0	0	0	0	1,565,000
Total Funding Sources	4,000,000	0	1,565,000	0	0	0	0	5,565,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope
The 345kV transmission line will interconnect Oncor's Blackwater Draw station, located in Hale County, with Oncor's Folsom Point Switch Station, located adjacent to LP&L's Yellow House Canyon station, near the X-Fab manufacturing facility. The 23-mile transmission line is a greenfield project which will be built by Oncor, but funded and owned by LP&L.

Project Justification
In Commission Docket No. 47576, the Commission approved LP&L's proposal to transition a portion of its system from the Southwest Power Pool (SPP) electric grid to the Electric Reliability Council of Texas (ERCOT) electric grid pursuant to a transmission interconnection plan known as Option "4ow" developed by ERCOT. The Commission determined that, under the terms of its order, the transition is in the public interest. This project is an important part of the infrastructure needed to ensure the LP&L system can safely and reliably operate in ERCOT.

Original cost estimates were higher than what the CCN analysis developed as the official cost estimate. Reducing budgeted amount for this project to support other projects that are part of the ERCOT Integration program and were not split out during initial project budgeting.

Project History
$1,550,000 was appropriated in the FY 2018-19 Budget Amendment #7, February 12,2019.
$29,745,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Reduced appropriation by $5,500,000 in FY 2019-20 Budget Amendment No. 4, Ord. No. 2019-O0158, November 19, 2019.
Increased $18,025,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	43,820,000	0	0	0	0	0	0	43,820,000
Total Project Appropriation	43,820,000	0	0	0	0	0	0	43,820,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 30-Year LP&L Revenue Bonds	1,385,000	0	0	0	0	0	0	1,385,000
FY 2019 LP&L 30-Year Revolving Note Program	14,652,573	0	0	0	0	0	0	14,652,573
FY 2020 LP&L 30-Year Revolving Note Program	27,782,427	0	0	0	0	0	0	27,782,427
Total Funding Sources	43,820,000	0	0	0	0	0	0	43,820,000

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

The transmission facilities will connect the existing Abernathy Station, located north of Abernathy in Hale County, to the existing Double Mountain Switch Station, located east of Lubbock in Lubbock County. The facilities will include a single-circuit 345-kilovolt (kV) electric transmission line on double-circuit capable structures in Hale and Lubbock counties, Texas. The transmission line will be approximately 34 miles in length. It is anticipated that LP&L will own the entirety of this facility.

Project Justification

In Commission Docket No. 47576, the Commission approved LP&L's proposal to transition a portion of its system from the Southwest Power Pool (SPP) electric grid to the Electric Reliability Council of Texas (ERCOT) electric grid pursuant to a transmission interconnection plan known as Option 4ow developed by ERCOT. The Commission determined that, under the terms of its order, the transition is in the public interest. This project is an important part of the infrastructure needed to ensure the LP&L system can safely and reliably operate in ERCOT.

Project History

$2,750,000 was appropriated in the FY 2018-19 Budget Amendment #7, February 12,2019.
$62,075,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Reduced appropriation by $9,000,000 in FY 2019-20 Budget Amendment No. 4, Ord. No. 2019-O0158, November 19, 2019.
Increased $5,016,522 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	60,841,522	0	0	0	0	0	0	60,841,522
Total Project Appropriation	60,841,522	0	0	0	0	0	0	60,841,522

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 30-Year LP&L Revenue Bonds	445,000	0	0	0	0	0	0	445,000
FY 2018 30-Year LP&L Revenue Bonds	3,555,000	0	0	0	0	0	0	3,555,000
FY 2019 LP&L 30-Year Revolving Note Program	2,750,000	0	0	0	0	0	0	2,750,000
FY 2020 LP&L 30-Year Revolving Note Program	54,091,522	0	0	0	0	0	0	54,091,522
Total Funding Sources	60,841,522	0	0	0	0	0	0	60,841,522

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

The facilities will connect Oncor's new 345-kilovolt (kV) Double Mountain station, located on the east side of Lubbock and adjacent to LP&L's new 345/115kV Dunbar Substation, to Oncor's new 345kV Fiddlewood station, located southeast of Lubbock and adjacent to LP&L's new 345/115kV Posey Substation. The 9 mile transmission line will include a single-circuit on double-circuit capable structures. It is anticipated that LP&L will own most or all of this facility, depending on the final ownership division point.

Project Justification

In Commission Docket No. 47576, the Commission approved LP&L's proposal to transition a portion of its system from the Southwest Power Pool (SPP) electric grid to the Electric Reliability Council of Texas (ERCOT) electric grid pursuant to a transmission interconnection plan known as Option 4ow developed by ERCOT. The Commission determined that, under the terms of its order, the transition is in the public interest. This project is an important part of the infrastructure needed to ensure the LP&L system can safely and reliably operate in ERCOT.

Project History

$1,000,000 was appropriated in the FY 2018-19 Budget Amendment #7, February 12,2019.
$20,225,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
Reduced appropriation by $6,012,532 in FY 2019-20, BCR# 1920-03, November 1, 2019.
Increased $2,667,532 in the Appropriation-To-Date in the FY 2020-21 Budget.
$1,200,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	17,880,000	1,200,000	0	0	0	0	0	19,080,000
Total Project Appropriation	17,880,000	1,200,000	0	0	0	0	0	19,080,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2019 LP&L 30-Year Revolving Note Program	1,000,000	0	0	0	0	0	0	1,000,000
FY 2020 LP&L 30-Year Revolving Note Program	16,880,000	0	0	0	0	0	0	16,880,000
FY 2021 LP&L Cash	0	1,200,000	0	0	0	0	0	1,200,000
Total Funding Sources	17,880,000	1,200,000	0	0	0	0	0	19,080,000

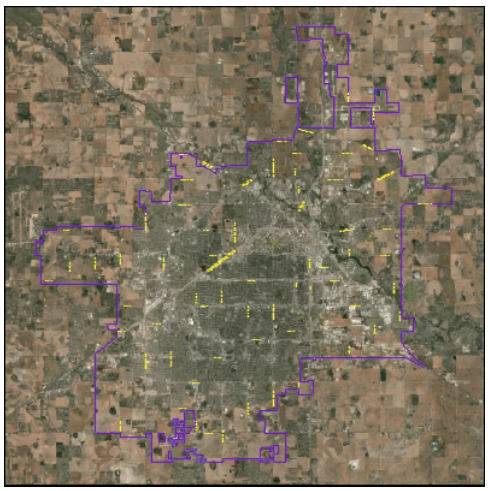
Project Name **LP&L - GIS Office Renovations** *Project Number* **92634**

Managing Department **Facilities Management**

Project Manager **Wesley Everett**

Project Classification **New Facility**

Project Status **Approved**



Project Scope
Construction of a facility measuring approximately 2,500 sq.ft. to house the GIS staff and operations. The facility will connect to the existing LP&L Engineering at Municipal Hill. Project will include furniture, equipment, servers and other related equipment for the operations of the GIS department.

Project Justification
Current GIS staff have out grown current space. LPL will relocate to the Citizens Tower and GIS will relocate to Municipal Hill.

FERC Accounts: 390, 391

Estimated Useful Life: 30 years

Project History
GIS was located in the Lubbock Business Center when LP&L purchased and renovated the facility in the mid 90's. Due to the consolidation of City services, LP&L will relocate to the Citizens Tower. GIS will relocate to Municipal Hill.

$1,115,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	1,006,500	0	0	0	0	0	0	1,006,500
Design and Engineering	108,500	0	0	0	0	0	0	108,500
Total Project Appropriation	1,115,000	0	0	0	0	0	0	1,115,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L 20-Year Revolving Note Program	1,115,000	0	0	0	0	0	0	1,115,000
Total Funding Sources	1,115,000	0	0	0	0	0	0	1,115,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

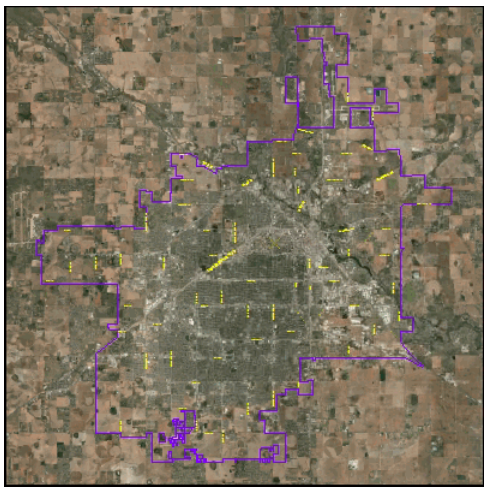
Project Name **Substation Rebuild - Northeast** *Project Number* **92635**

Managing Department **Transmission**

Project Manager **Blair McGinnis**

Project Classification **Upgrade/Major Maintenance**

Project Status **Approved**



Project Scope

Replace the transmission line relay protection on the transmission lines out of the substation and assess the substation to determine if any modifications or upgrades are required in preparation for the new system configuration following the installation of the 115kV transmission loop. The assessment includes, but is not limited to: analyzing the power flows through the substations; verifying the existing equipment will handle/carry the power/currents safely; analyzing the existing Alternating Current(AC) Voltage and Direct Current (DC Voltage system requirements; updating ratings of the bus, breakers, switches, and 2 potential transformers (PTs). The project includes the engineering, design, materials, and construction costs associated with upgrading the Northeast substation.

Project Justification

The existing electromechanical transmission line protection relays in the affected substations do not provide adequate protection. The installation of microprocessor relays will allow LP&L to further improve the reliability of the transmission system by providing adequate and redundant protection. These new digital relays will constantly monitor the health of the system, instantly alarm for abnormal conditions, and more importantly clear system disturbances quickly and as necessary. The current transformers (CTs) in the existing circuit breakers do not have the proper ratings required, thereby reducing the rating of the transmission line. The transmission line rating is what determines how much power the transmission lines can safely carry. The load flows on the 69kV transmission system will be compared to the rating of the substation current carrying equipment. This equipment will need to be replaced if the current ratings do not meet or exceed the requirements.

FERC Accounts: 353
Estimated Useful Life: 30 years

Project History

$505,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.
History:
$3,160,000 was appropriated in FY 2019-20 Budget Amendment No. 5 Ord. No. 2020-O0039, March 24, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	3,215,000	0	0	0	0	0	0	3,215,000
Design and Engineering	450,000	0	0	0	0	0	0	450,000
Total Project Appropriation	3,665,000	0	0	0	0	0	0	3,665,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L 30-Year Revolving Note Program	3,665,000	0	0	0	0	0	0	3,665,000
Total Funding Sources	3,665,000	0	0	0	0	0	0	3,665,000

Managing Department **Electric Utilities Admin**

Project Manager **Felix Orta**

Project Classification **New Equipment/Fleet**

Project Status **Approved**

Project Scope
The following vehicles and equipment need costly repairs or have become unreliable and will be replaced with a similar unit (with the exception of Field Services, two of the units will be replaced with 4 wheel drive units):

Underground:
72003062 2003 Freightliner Dump Truck
92004090 2004 John Deere Backhoe
92002118 2002 John Deere Backhoe
01999045 1999 Belshe Equipment Trailer
01999101 1999 Belshe Equipment Trailer
01998110 1998 Wells Cargo Trailer

Overhead:
72002128 2002 Chevrolet Derrick
72005061 2005 Sterling Derrick
22005104 2005 K2500 Truck
92008152 2008 Ditchwitch Pothole Machine
1999048 1999 Bruton Trailer
1999109 1999 TSE Wire Puller
1998109 1998 Wells Cargo Trailer

Substations:
52007147 2008 International Digger

Engineering:
12003122 2003 Chevrolet C1500
12003103 2003 Chevrolet C1500

Construction and Engineering:
12004072 2004 Chevrolet C1500
12007099 2007 Chevrolet C1500
22008194 2008 Chevrolet C1500

There are approximately 50 miscellaneous pieces of equipment that range from 10 to 50 years in age and from $7,500 to $450,000 in value and are past their life expectancy. The value of items needing replacement totals approximately $2 million. In order to systematically replace these items throughout the next 6 year time horizon, $350,000 annually is included in the budget to replace these items as needed.

The following vehicles and equipment items are new additions to the fleet due to the addition of five FTEs in Underground Lines to create a new crew to allow the department to keep pace with new construction while keeping up with the maintenance required to keep the underground distribution system operating as efficiently as possible. The Street Lights Dept. has also added two new FTEs for an additional thoroughfare maintenance crew. With the City of Lubbock annexing more area, the new crew will help with response time and will aid in completion of work orders with the existing crews. The Overhead Dept. is adding four new vehicles so that every crew will have a pickup which allows for quicker and more efficient response times.

Underground:
2 - Double Cab 4X4 Pickup
Small Bucket
Large Bucket
Derrick Truck
Backhoe w/ Trailer

Overhead:
3 - Crew Cab 4X4 Pickups
1/2 Ton Double Cab 4X4 Pickup

Street Lights:
Bucket Truck

If funding is available after the above items are purchased, additional vehicle or equipment items may be purchased as necessary.

Project Justification
The vehicles and heavy equipment below have been inspected and deemed unreliable. This is causing delays in service, response times, and productivity. Future funding is necessary for replacement vehicles and equipment currently on the replacement list. The list isreviewed each year to determine the actual need for replacement.

FERC Accounts: 392, 394, 396

Estimated Useful Lives:
*Pickups - 12 years
*Derrick - 10 years
*Bucket - 7 years
*Trailers - 15 years
*Backhoe - 15 years
*Pothole Machine – 10 years

Project History
$2,635,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Other Activities	2,635,000	0	0	0	0	0	0	2,635,000
Total Project Appropriation	2,635,000	0	0	0	0	0	0	2,635,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L Cash	2,635,000	0	0	0	0	0	0	2,635,000
Total Funding Sources	2,635,000	0	0	0	0	0	0	2,635,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

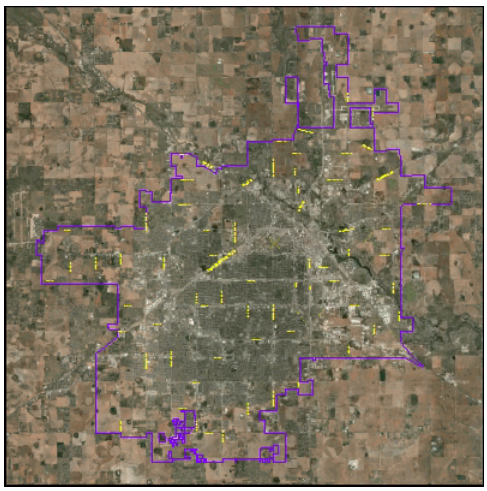
Project Name **Broadway Tunnel Lighting and Control Box Upgrades** *Project Number* **92647**

Managing Department **Distribution**

Project Manager **Lee Roy Martinez**

Project Classification **Upgrade/Major Maintenance**

Project Status **Approved**



Project Scope

Purchase and install materials to upgrade and repair the existing Broadway tunnel lighting and control box located at I-27 and Broadway.

Project Justification

The current lighting system in the Broadway tunnel is outdated and unreliable, which is a safety concern for traffic.

Project History

$105,000 was appropriated in the FY 2019-20 Budget, Ord. No. 2019-O0129, October 1, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	105,000	0	0	0	0	0	0	105,000
Total Project Appropriation	105,000	0	0	0	0	0	0	105,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L Cash	105,000	0	0	0	0	0	0	105,000
Total Funding Sources	105,000	0	0	0	0	0	0	105,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

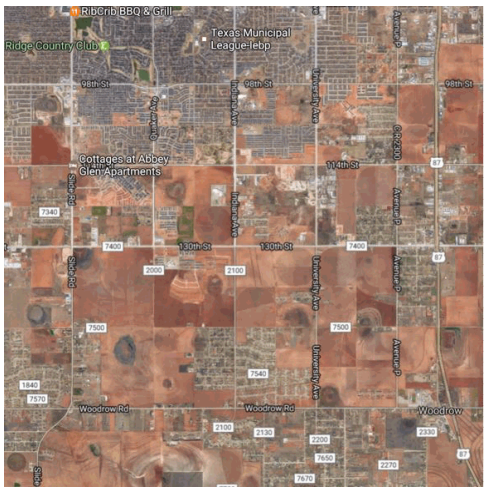
Project Name **Posey to Oliver 115kV Line** *Project Number* **92661**

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**



Project Scope

The “4ow” approved by the PUCT requires two 115kV feeds into LP&L's existing south loop. This line fulfills one of those needs. The transmission line conductor is planned to be 959.6 aluminum conductor steel supported thermal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire. However, the final determination of the conductor is subject to change based on the engineering analyses of the physical construction. The primary factor to consider is the percent loading of the line and the effective sag it has on the line. The project includes the estimated engineering, ROW acquisition, material, and construction cost associated with constructing the transmission line.

Project Justification

The "4ow" approved by the PUCT, calls for two 115kV feeds from Posey substation. Posey to Southeast and Posey to Oliver transmission lines must be independent projects.

Project History

$14,702,427 was appropriated in FY 2019-20 Budget Amendment No. 4, Ord. No. 2019-O0158, November 19, 2019.
Increased $1,867,573 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	16,570,000	0	0	0	0	0	0	16,570,000
Total Project Appropriation	16,570,000	0	0	0	0	0	0	16,570,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2019 LP&L 30-Year Revolving Note Program	16,570,000	0	0	0	0	0	0	16,570,000
Total Funding Sources	16,570,000	0	0	0	0	0	0	16,570,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Dunbar Station Work** *Project Number* **92662**

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope
This project includes the transformer pad, 345kV breaker pad, 115kV meters, 345kV capacitor voltage transformer (CCVT), 345kV takeoff structure, switches, bus work, control cabling, and associated protection package.

Project Justification
This work is required to tie LP&L's existing Dunbar station to the 345kV feed. . The work will be executed in conjunction with Capital Improvement Project (CIP) 92666.

Project History
$2,000,000 was appropriated in FY 2019-20 Budget Amendment No. 4, Ord. No. 2019-O0158, November 19, 2019.
$2,550,000 was appropriated in FY 2019-20, BCR# 1920-8, June 3, 2020.
Decreased $3,550,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	1,000,000	0	0	0	0	0	0	1,000,000
Total Project Appropriation	1,000,000	0	0	0	0	0	0	1,000,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L 30-Year Revolving Note Program	1,000,000	0	0	0	0	0	0	1,000,000
Total Funding Sources	1,000,000	0	0	0	0	0	0	1,000,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Yellow House Canyon Station Work** *Project Number* **92663**

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

This project includes the transformer pad, 345kV breaker pad, 115kV meters, 345kV capacitor voltage transformer (CCVT), 345kV takeoff structure, switches, bus work, control cabling, and associated protection package.

Project Justification

This work is required to tie LP&L's existing station to the 345kV feed. The work will be executed in conjunction with Capital Improvement Project (CIP) 92464.

Project History

$2,000,000 was appropriated in FY 2019-20 Budget Amendment No. 4, Ord. No. 2019-O0158, November 19, 2019.
$2,450,000 was appropriated in FY 2019-20, BCR# 1920-8, June 3, 2020.
Decreased $3,450,000 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	1,000,000	0	0	0	0	0	0	1,000,000
Total Project Appropriation	1,000,000	0	0	0	0	0	0	1,000,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L 30-Year Revolving Note Program	1,000,000	0	0	0	0	0	0	1,000,000
Total Funding Sources	1,000,000	0	0	0	0	0	0	1,000,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

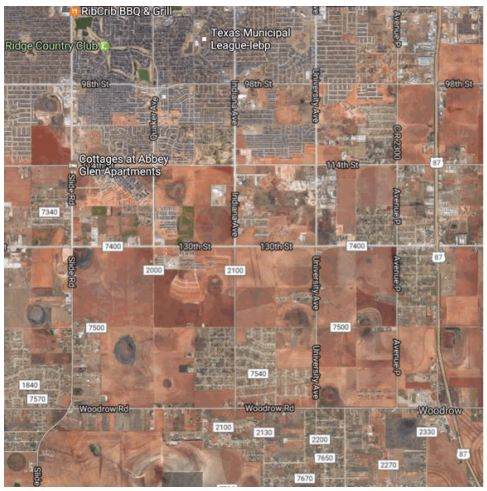
Project Name **Oliver Station Work** *Project Number* **92664**

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**



Project Scope

This project includes the bay addition required to receive the 115kV circuit from Posey, including bus, switches, breakers, take off structures, and other related materials and equipment.

Project Justification

This work is required to tie LP&L's existing station to the 345kV feed. The work will be executed in conjunction with Capital Improvement Project (CIP) 92470.

Project History

$750,000 was appropriated in FY 2019-20 Budget Amendment No. 4, Ord. No. 2019-O0158, November 19, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	750,000	0	0	0	0	0	0	750,000
Total Project Appropriation	750,000	0	0	0	0	0	0	750,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L 30-Year Revolving Note Program	750,000	0	0	0	0	0	0	750,000
Total Funding Sources	750,000	0	0	0	0	0	0	750,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Southeast Station Work** *Project Number* **92665**

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

This project includes the bay addition required to receive the 115kV circuit from Posey, including bus, switches, breakers, take off structures, and other related materials and equipment.

Project Justification

This work is required to tie LP&L's existing station to the 345kV feed. The work will be executed in conjunction with Capital Improvement Project (CIP) 92407.

Project History

$750,000 was appropriated in FY 2019-20 Budget Amendment No. 4, Ord. No. 2019-O0158, November 19, 2019.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	750,000	0	0	0	0	0	0	750,000
Total Project Appropriation	750,000	0	0	0	0	0	0	750,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L 30-Year Revolving Note Program	750,000	0	0	0	0	0	0	750,000
Total Funding Sources	750,000	0	0	0	0	0	0	750,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

Construct a new Dunbar substation, which will be a 115kV rated breaker-and-a-half substation. The new substation configuration, layout, and design will follow an initial substation assessment and LP&L planning criteria. The assessment will provide LP&L the best available options. The number of positions/breakers will be determined by the customer requirements and the land that is available at the proposed site. This current project includes theassessment of the substation requirements and budgetary estimate based on a two-transformer site with five-transmission line positions. The completed assessment will ultimately provide the engineering, materials, and construction costs associated with building this substation.

Project Justification

The new substation is required to provide greater reliability and supply the required power needs and also provide distribution support to the surrounding LP&L distribution system.

Project History

$9,000,000 was appropriated in FY 2019-20 Budget Amendment No. 4, Ord. No. 2019-O0158, November 19, 2019.
$1,300,000 was appropriated in FY 2019-20, BCR# 1920-8, June 3, 2020.
Increased $3,022,434 in the Appropriation-To-Date in the FY 2020-21 Budget.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	13,322,434	0	0	0	0	0	0	13,322,434
Total Project Appropriation	13,322,434	0	0	0	0	0	0	13,322,434

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 30-Year LP&L Revenue Bonds	1,690,656	0	0	0	0	0	0	1,690,656
FY 2019 LP&L 30-Year Revolving Note Program	320,105	0	0	0	0	0	0	320,105
FY 2020 LP&L 30-Year Revolving Note Program	11,311,673	0	0	0	0	0	0	11,311,673
Total Funding Sources	13,322,434	0	0	0	0	0	0	13,322,434

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Cooke Station Gas Turbine #2 (GT-2) Repairs** *Project Number* **92667**

Managing Department **Transmission And Distribution**

Project Manager **Felix Orta**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

This project is to replace the expander on Gas Turbine #2 (GT-2) at Cooke Station. The project includes costs related to engineering and repairs of the expander, generator, turbine, control system, electrical wiring, and auxiliary equipment.

Project Justification

A catastrophic failure occurred to the expander on GT-2 at Cooke Station and the unit is currently inoperable. The restoration of GT-2 will offset the need to purchase capacity megawatts to cover LP&L's system demand. Returning this generation unit to service will also provide capacity for LP&L to serve its native load in the Southwestern Power Pool (SPP) and provide a "quick start" asset in the wholesale electric markets of SPP and Electric Reliability Council of Texas (ERCOT).

FERC Accounts: 343

Estimated Useful Life: 10 years

Project History

$2,230,000 was appropriated in FY 2019-20 Budget Amendment No. 24, Ord. No. 2020-O0013, February 25, 2020.
Reduced appropriation by $460,000 in FY 2019-20, BCR# 1920-11, August 26, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	1,770,000	0	0	0	0	0	0	1,770,000
Total Project Appropriation	1,770,000	0	0	0	0	0	0	1,770,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L Cash	1,770,000	0	0	0	0	0	0	1,770,000
Total Funding Sources	1,770,000	0	0	0	0	0	0	1,770,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Wadsworth Relay Upgrade** *Project Number* **92668**

Managing Department **Electric Distribution En**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

This project is for the upgrades to the existing Wadsworth station for the 115kV conversion program only. This includes replacing the existing Co-op and Holly line protection panels, 115kV potential transformers (PTs) relocations, surge arrester replacements, second trip coils and second battery addition. The existing Holly line will now be bisected by the Greenfield substation (Dunbar).

Project Justification

The work at the Wadsworth substation is required to upgrade the protection for the existing 115kV potential transformers, and upgrading the remaining 115kV breakers to match current protection and controls to include the installation of the additional/redundant trip coils.

Project History

$1,500,000 was appropriated in FY 2019-20 Budget Amendment No. 5 Ord. No. 2020-O0039, March 24, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	1,500,000	0	0	0	0	0	0	1,500,000
Total Project Appropriation	1,500,000	0	0	0	0	0	0	1,500,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2020 LP&L 30-Year Revolving Note Program	1,500,000	0	0	0	0	0	0	1,500,000
Total Funding Sources	1,500,000	0	0	0	0	0	0	1,500,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **7611- Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Upgrade/Major Maintenance**

Project Status **Approved**

Project Scope
This project will also replace the existing switchgear and upgrade the relay protection. The relay protection upgrade includes; relay protection for the additional feeders and 69kV bus protection. This project will include the engineering, materials, and construction costs associated with the project.

Project Justification
The switchgear replacement is required to conform to the new LP&L standard substation design. Each of the transformers will connect to new overhead open air distribution busses that will serve 4 distribution feeder circuits. This new open air design configuration is easily expandable and safer than the existing metalclad switchgear.

The new relay protection for the transformers, feeders, and busses is required to implement the new LP&L standard design for a fully integrated substation protection package. This protection is designed to quickly isolate faulted parts of the distribution and transmission system in order to protect the equipment, protect the unaffected parts of the system, and to improve the reliability of the electric network. The relay protection includes primary and backup protection for all protection areas/schemes.

Project History
$600,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	0	3,790,000	0	0	0	0	3,790,000
Design and Engineering	0	600,000	0	0	0	0	0	600,000
Total Project Appropriation	0	600,000	3,790,000	0	0	0	0	4,390,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 20-Year LP&L Revenue Bonds	0	600,000	0	0	0	0	0	600,000
FY 2022 LP&L Revenue Bonds	0	0	3,790,000	0	0	0	0	3,790,000
Total Funding Sources	0	600,000	3,790,000	0	0	0	0	4,390,000

Managing Department **Transmission**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

Engineering, testing, and construction efforts to support the cutover of a portion of the LP&L system from the Southwest Power Pool (SPP) to the Electric Reliability Council of Texas (ERCOT) grid. Both external and internal resources must be available for roughly two weeks, to include a transmission line crew, relay technician(s), & other personnel to facilitate physical work required during the cutover sequence and immediately respond to any issues that are found during the cutover.

Project Justification

LP&L is planning to move a portion of its load from the SPP to the ERCOT grid.

Project History

$375,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	200,000	0	0	0	0	0	200,000
Design and Engineering	0	175,000	0	0	0	0	0	175,000
Total Project Appropriation	0	375,000	0	0	0	0	0	375,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 30-Year LP&L Revenue Bonds	0	357,435	0	0	0	0	0	357,435
FY 2018 30-Year LP&L Revenue Bonds	0	17,565	0	0	0	0	0	17,565
Total Funding Sources	0	375,000	0	0	0	0	0	375,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **Transmission**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

Engineering, testing, and construction efforts to support the actual voltage conversion from 69kV to 115kV. This scope covers the labor from multiple disciplines required to coordinate, test, and physically transfer the system voltage. This effort was not previously contemplated in each station or line scope.

Project Justification

LP&L is planning to convert and operate a portion of its electric grid from 69kV to 115kV. While LP&L will be maintaining an interior 69kV loop, there will be an outer loop converted to 115kV. This will allow for the connection with ERCOT, and help increase reliability across the LP&L systems.

Project History

$1,000,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	825,000	0	0	0	0	0	825,000
Design and Engineering	0	175,000	0	0	0	0	0	175,000
Total Project Appropriation	0	1,000,000	0	0	0	0	0	1,000,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L 30-Year Revolving Note Program	0	1,000,000	0	0	0	0	0	1,000,000
Total Funding Sources	0	1,000,000	0	0	0	0	0	1,000,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **7419-Distribution Meter Shop**

Project Manager **Ronny Smith**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

Purchase electric meters, meter bases, potential transformers, current transformers, meter sockets, and related equipment and materials for metering customers. The Advanced Metering Infrastructure (AMI) meter project should be completed in 2020 and the meter shop will begin purchasing AMI meters as needed in FY 2020-21.

Project Justification

Provide for the purchase of electric meters and related equipment to be used for the registration of electric kilowatt hours and demand.

Project History

$226,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	226,000	235,000	275,000	310,000	320,000	330,000	1,696,000
Total Project Appropriation	0	226,000	235,000	275,000	310,000	320,000	330,000	1,696,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L Cash	0	226,000	0	0	0	0	0	226,000
FY 2022 LP&L Cash	0	0	235,000	0	0	0	0	235,000
FY 2023 LP&L Cash	0	0	0	275,000	0	0	0	275,000
FY 2024 LP&L Cash	0	0	0	0	310,000	0	0	310,000
FY 2025 LP&L Cash	0	0	0	0	0	320,000	0	320,000
FY 2026 LP&L Cash	0	0	0	0	0	0	330,000	330,000
Total Funding Sources	0	226,000	235,000	275,000	310,000	320,000	330,000	1,696,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **FY 2020-21 Distribution Transformers** *Project Number* **92684**

Managing Department **7411-Distribution Supervision & Engineering**

Project Manager **Greg Gorman**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope
The project is for the purchase of overhead transformers, pad mounted transformers, switches and enclosures transformers, and other related equipment.

Project Justification
These items will be used for upgrading capacity or to serve new customers in the footprint of LP&L. Going forward, all transformers will be dual voltage on the primary side.

FERC Accounts: 368

Estimated Useful Life: 30 years.

Project History
$3,500,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	3,500,000	3,650,000	3,800,000	3,950,000	4,100,000	4,250,000	23,250,000
Total Project Appropriation	0	3,500,000	3,650,000	3,800,000	3,950,000	4,100,000	4,250,000	23,250,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L Cash	0	3,500,000	0	0	0	0	0	3,500,000
FY 2022 LP&L Cash	0	0	3,650,000	0	0	0	0	3,650,000
FY 2023 LP&L Cash	0	0	0	3,800,000	0	0	0	3,800,000
FY 2024 LP&L Cash	0	0	0	0	3,950,000	0	0	3,950,000
FY 2025 LP&L Cash	0	0	0	0	0	4,100,000	0	4,100,000
FY 2026 LP&L Cash	0	0	0	0	0	0	4,250,000	4,250,000
Total Funding Sources	0	3,500,000	3,650,000	3,800,000	3,950,000	4,100,000	4,250,000	23,250,000

Project Name **FY 2020-2021 Distribution System Upgrade** *Project Number* **92685**

Managing Department **Distribution**

Project Manager **Lee Roy Martinez**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

This project constist of any required work in upgrading the distribution system by reconductoring or rebuilding existing lines that require capacity upgrades or lines that have exceeded their life expectancy. This project includes the engineering, material, and construction costs associated with re-conducting, rebuilding or removal of 4, 15 and/or 23kV circuits on the distribution system to improve system efficiency and reliability.

Project Justification

The majority of LP&L's distibution lines have exceeded their life expectancy. It is critical that the utility begins to replace these lines over time.

Project History

$5,625,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	5,625,000	2,245,000	2,235,000	580,000	3,335,000	6,755,000	20,775,000
Total Project Appropriation	0	5,625,000	2,245,000	2,235,000	580,000	3,335,000	6,755,000	20,775,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L Cash	0	5,625,000	0	0	0	0	0	5,625,000
FY 2022 LP&L Cash	0	0	2,245,000	0	0	0	0	2,245,000
FY 2023 LP&L Cash	0	0	0	2,235,000	0	0	0	2,235,000
FY 2024 LP&L Cash	0	0	0	0	580,000	0	0	580,000
FY 2025 LP&L Cash	0	0	0	0	0	3,335,000	0	3,335,000
FY 2026 LP&L Cash	0	0	0	0	0	0	6,755,000	6,755,000
Total Funding Sources	0	5,625,000	2,245,000	2,235,000	580,000	3,335,000	6,755,000	20,775,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **FY 2020-21 Overhead Lines** *Project Number* **92686**

Managing Department **7418-Distribution Engineering Construction**

Project Manager **Tim Stice**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

Purchase materials for the installation or extension of new overhead distribution lines to serve customers of LP&L.

Project Justification

Provide for upgrades and the new overhead primary and/or secondary lines to include poles, wire, insulators, ties, guy wires, and any other equipment necessary for the installation of overhead lines.

Project History

$2,424,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	2,181,600	2,245,000	2,310,000	2,385,000	2,455,000	2,530,000	14,106,600
Design and Engineering	0	242,400	250,000	260,000	265,000	275,000	280,000	1,572,400
Total Project Appropriation	0	2,424,000	2,495,000	2,570,000	2,650,000	2,730,000	2,810,000	15,679,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L Cash	0	2,424,000	0	0	0	0	0	2,424,000
FY 2022 LP&L Cash	0	0	2,495,000	0	0	0	0	2,495,000
FY 2023 LP&L Cash	0	0	0	2,570,000	0	0	0	2,570,000
FY 2024 LP&L Cash	0	0	0	0	2,650,000	0	0	2,650,000
FY 2025 LP&L Cash	0	0	0	0	0	2,730,000	0	2,730,000
FY 2026 LP&L Cash	0	0	0	0	0	0	2,810,000	2,810,000
Total Funding Sources	0	2,424,000	2,495,000	2,570,000	2,650,000	2,730,000	2,810,000	15,679,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **FY 2020-21 Street Lights** *Project Number* **92687**

Managing Department **7418-Distribution Engineering Construction**

Project Manager **Greg Pillow**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

Purchase and installation of approximately 160 LED residential street lights annually inside the city limits. The project includes street light poles, arms, lights and any conductors, cables or materials needed to power the lights. Purchase and installation of street lights for ordinance compliance and relocation within developed areas of the city.

Project Justification

LP&L has been tasked with the installation of street lights throughout the City of Lubbock. Per ordinance developers are charged $2,500.00 for each residential street light plus $70.00 for inspection.

Project History

$484,600 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	436,140	450,000	464,000	477,000	490,000	504,000	2,821,140
Design and Engineering	0	48,460	50,000	51,000	53,000	55,000	56,000	313,460
Total Project Appropriation	0	484,600	500,000	515,000	530,000	545,000	560,000	3,134,600

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L Cash	0	484,600	0	0	0	0	0	484,600
FY 2022 LP&L Cash	0	0	500,000	0	0	0	0	500,000
FY 2023 LP&L Cash	0	0	0	515,000	0	0	0	515,000
FY 2024 LP&L Cash	0	0	0	0	530,000	0	0	530,000
FY 2025 LP&L Cash	0	0	0	0	0	545,000	0	545,000
FY 2026 LP&L Cash	0	0	0	0	0	0	560,000	560,000
Total Funding Sources	0	484,600	500,000	515,000	530,000	545,000	560,000	3,134,600

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **FY 2020-21 Underground Distribution** *Project Number* **92688**

Managing Department **7418-Distribution Supervision & Engineering**

Project Manager **David Stinebaugh**

Project Classification **Infrastructure Improvements**

Project Status **Approved**

Project Scope

Purchase and installation of the new underground system for LP&L to serve new and existing customers.

Project Justification

Provide for the installation of new or replacement underground primary and/or secondary lines used to provide electric services to new and existing customers.

Project History

$2,876,500 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	2,588,850	2,669,000	2,745,000	2,831,000	2,916,000	3,001,000	16,750,850
Design and Engineering	0	287,650	296,000	305,000	314,000	324,000	334,000	1,860,650
Total Project Appropriation	0	2,876,500	2,965,000	3,050,000	3,145,000	3,240,000	3,335,000	18,611,500

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L Cash	0	2,876,500	0	0	0	0	0	2,876,500
FY 2022 LP&L Cash	0	0	2,965,000	0	0	0	0	2,965,000
FY 2023 LP&L Cash	0	0	0	3,050,000	0	0	0	3,050,000
FY 2024 LP&L Cash	0	0	0	0	3,145,000	0	0	3,145,000
FY 2025 LP&L Cash	0	0	0	0	0	3,240,000	0	3,240,000
FY 2026 LP&L Cash	0	0	0	0	0	0	3,335,000	3,335,000
Total Funding Sources	0	2,876,500	2,965,000	3,050,000	3,145,000	3,240,000	3,335,000	18,611,500

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **ERCOT - TDSP** *Project Number* **92689**

Managing Department **7512-Customer Service**

Project Manager **Jamie Cook**

Project Classification **Administrative**

Project Status **Approved**

Project Scope

This project is for the technology upgrade, implementation, training, legal and consultant services needed as LP&L creates a system required to provide data for the Electric Reliability Council of Texas (ERCOT) Transmission/Distribution Service Provider (TDSP). Technology upgrades to the Oracle Customer Cloud Service (CCS) include the project management, Q A, testing, and training consultants. Managed Services as well as implementation/project management consulting will be necessary due to the legalistic and technical nature of the project as well as the timing of the project work in concurrence with other high profile projects. This project cost includes a new software application, interface work, and associated personnel costs.

The following are key components required to create a system that relays LP&L's information to TDSP:

- Technology Upgrade to Oracle CCS
- Complete ERCOT "Municipally Owned Utility (MOU) and Electric Cooperatives (EC) Opt-In Checklist.
- Obtain management consultants, personnel resources, update policies and procedures, and provide training for internal staff.

Project Justification

As LP&L transitions into the ERCOT market there is compliance reporting and information that must be reported to ERCOT by LP&L for retailers and public use which includes data sets and their characteristics. The technology and training for creating and transferring the data is a task that will require the assistance of outsourced companies in order to receive the proper training and resources needed to complete the task.

Project History

$3,550,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	80,000	235,000	95,000	0	0	0	410,000
Design and Engineering	0	3,470,000	2,650,000	2,200,000	0	0	0	8,320,000
Total Project Appropriation	0	3,550,000	2,885,000	2,295,000	0	0	0	8,730,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 10-Year LP&L Revenue Bonds	0	3,550,000	0	0	0	0	0	3,550,000
FY 2022 10-Year LP&L Revenue Bonds	0	0	2,885,000	0	0	0	0	2,885,000
FY 2023 10-Year LP&L Revenue Bonds	0	0	0	2,295,000	0	0	0	2,295,000
Total Funding Sources	0	3,550,000	2,885,000	2,295,000	0	0	0	8,730,000

Project Name **East Broadway Series Street Light Conversion** *Project Number* **92690**

Managing Department **7418-Distribution Engineering Construction**

Project Manager **Greg Pillow**

Project Classification **Upgrade/Major Maintenance**

Project Status **Approved**

Project Scope

Replace series street light facilities along East Broadway with new and modern street light facilities including Light-emitting Diode (LED) fixtures. Project limits are along East Broadway St. from Ave. A to Oak Ave. The project includes engineering design, planning, construction and materials including new poles, arms, fixtures, conductors, conduit, fuses and relay controllers.

Project Justification

Series street light circuits are antiquated, obsolete and dangerous. New materials can no longer be ordered to maintain such facilities. This project will improve aesthetics, reduce maintenance costs and provide better illumination along the East Broadway corridor.

Project History

$420,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	380,000	0	0	0	0	0	380,000
Design and Engineering	0	40,000	0	0	0	0	0	40,000
Total Project Appropriation	0	420,000	0	0	0	0	0	420,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L Cash	0	420,000	0	0	0	0	0	420,000
Total Funding Sources	0	420,000	0	0	0	0	0	420,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **Electric Utilities Admin**

Project Manager **Felix Orta**

Project Classification **New Equipment/Fleet**

Project Status **Approved**

Project Scope
The following vehicles and equipment need costly repairs or have become unreliable and will be replaced with a similar unit (with the exception of Street Lights, Engineering, and Transmission, three of the units will be replaced with 4 wheel drive units):

GIS:
12007100 2007 Chevrolet C1500

Underground:
42008100 2008 International Derrick

Overhead:
42009062 2009 International Derrick
42009063 2009 International Derrick
42009065 2009 International Derrick
42009058 2009 International Bucket
42009060 2009 International Bucket
42009061 2009 International Derrick

Street Light:
22009030 2009 Chevrolet 2500
52011006 2010 Dodge 5500

Substation:
01985072 1985 Wells Cargo Trailer
2000137 2000 Fiber Trailer

Service:
52012001 2012 Ford F550
52012002 2012 Ford F550
52012004 2012 Ford F550

Engineering:
12007096 2007 Chevrolet C1500

Distribution Load Dispatch:
12007141 2007 Chevrolet Colorado

Transmission:
12007142 2007 Chevrolet Colorado

The following vehicle is a new addition to the fleet due to the need in the Distribution Load Dispatch Department which requires driving between control centers multiple times a week, responding to all breaker lockouts 24x7 when applicable, and also to meet field crews at substations or various field locations when researching in depth switching projects.

Distribution Load Dispatch:

Double Cab 4x4 Pickup

If funding is available after the above items are purchased, additional vehicle or equipment items may be purchased as necessary.

Project Justification
The vehicles and heavy equipment above have been inspected and deemed unreliable. This is causing delays in service, response times, and productivity. Future funding is necessary for replacement vehicles and equipment currently on the replacement list. The list is reviewed each year to determine the actual need for replacement.

FERC Accounts: 392, 394, 396

Estimated Useful Lives:
*Pickups - 12 years
*Derrick - 10 years
*Bucket - 7 years
*Trailers - 15 years
*Backhoe - 15 years
*Pothole Machine – 10 years

Project History
$2,667,500 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Other Activities	0	2,667,500	2,750,000	2,810,000	2,870,000	2,935,000	3,000,000	17,032,500
Total Project Appropriation	0	2,667,500	2,750,000	2,810,000	2,870,000	2,935,000	3,000,000	17,032,500

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L Cash	0	2,667,500	0	0	0	0	0	2,667,500
FY 2022 LP&L Cash	0	0	2,750,000	0	0	0	0	2,750,000
FY 2023 LP&L Cash	0	0	0	2,810,000	0	0	0	2,810,000
FY 2024 LP&L Cash	0	0	0	0	2,870,000	0	0	2,870,000
FY 2025 LP&L Cash	0	0	0	0	0	2,935,000	0	2,935,000
FY 2026 LP&L Cash	0	0	0	0	0	0	3,000,000	3,000,000
Total Funding Sources	0	2,667,500	2,750,000	2,810,000	2,870,000	2,935,000	3,000,000	17,032,500

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **Transmission**

Project Manager **Felix Orta**

Project Classification **New Equipment/Fleet**

Project Status **Approved**

Project Scope
The following vehicles and equipment will be purchased for the planned seven (7) member Transmission Crew coming on in FY 2021-22.

If funding is available after the above items are purchased, additional vehicle or equipment items may be purchased as necessary.

Project Justification
In order to properly and safely run the transmission department the following equipment will be required:

PHX 150-I on Freightliner 114SD, 10X6 with Cummins 485HP/Allison 4500RDS
TM125 mounted on a Freightliner Chassis
TEREX GEN80 on Freightliner 6x4 Chassis
Crew cab 4x4 1 ton flatbed pickup
20’ tandem axle utility trailer

Project History
$2,150,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Other Activities	0	2,150,000	0	0	0	0	0	2,150,000
Total Project Appropriation	0	2,150,000	0	0	0	0	0	2,150,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 LP&L Cash	0	500,000	0	0	0	0	0	500,000
FY 2018 LP&L Cash	0	1,250,000	0	0	0	0	0	1,250,000
FY 2020 LP&L Cash	0	400,000	0	0	0	0	0	400,000
Total Funding Sources	0	2,150,000	0	0	0	0	0	2,150,000

Managing Department **Distribution**

Project Manager **Jubal Mann**

Project Classification **Upgrade/Major Maintenance**

Project Status **Approved**

Project Scope

This project is to upgrade, improve, and expand the LP&L distribution system in preparation for, and after, the transition to Electric Reliability Council of Texas (ERCOT). This will include, but is not limited to, replacing conductors and other distribution devices/equipment, installation of double circuits, and new construction.

Project Justification

In order to support integration and opt-in efforts distribution lines must be built, rebuilt, etc. in order to handle the additional load. Furthermore, new construction will be required to facilitate connection and integration of customers into the LP&L system.

Project History

$4,301,674 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	3,301,674	3,445,000	0	0	0	0	6,746,674
Design and Engineering	0	1,000,000	0	0	0	0	0	1,000,000
Total Project Appropriation	0	4,301,674	3,445,000	0	0	0	0	7,746,674

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2017 LP&L Revenue Bonds	0	16,449	0	0	0	0	0	16,449
FY 2018 20-Year LP&L Revenue Bonds	0	115,225	0	0	0	0	0	115,225
FY 2021 LP&L 20-Year Revolving Note Program	0	4,170,000	0	0	0	0	0	4,170,000
FY 2022 LP&L Revenue Bonds	0	0	3,445,000	0	0	0	0	3,445,000
Total Funding Sources	0	4,301,674	3,445,000	0	0	0	0	7,746,674

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **Transmission**

Project Manager **Blair McGinnis**

Project Classification **Upgrade/Major Maintenance**

Project Status **Approved**

Project Scope

Purchase and install new dual wound substation power transformers. This project will also replace the existing switchgear and upgrade the relay protection. The relay protection upgrade includes; relay protection for the new substation transformers, additional feeders, and bus protection where needed. This project will include the engineering, materials, and construction costs associated with the project.

Project Justification

The project will replace transformers at Coop Substation that have reached their end of life. It will add new transformers located at McDonald, Thompson, and YellowHouse to facilitate integration and opt-in efforts. This will increase the capacity of the substations and provide greater operational reliability.

The switchgear replacement and new installation is required to conform to the new LP&L standard substation design. Each of the transformers will connect to new overhead open air distribution busses that will serve 4 distribution feeder circuits. This new open air design configuration is easily expandable and safer than the existing metalclad switchgear.

The new relay protection for the transformers, feeders, and busses is required to implement the new LP&L standard design for a fully integrated substation protection package. This protection is designed to quickly isolate faulted parts of the transmission system in order to protect the equipment, protect the unaffected parts of the system, and to improve the reliability of the transmission network. The relay protection includes primary and backup protection for all protection areas/schemes.

Project History

$3,800,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	3,400,000	6,285,000	5,335,000	0	0	0	15,020,000
Design and Engineering	0	400,000	400,000	0	0	0	0	800,000
Total Project Appropriation	0	3,800,000	6,685,000	5,335,000	0	0	0	15,820,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2021 LP&L 20-Year Revolving Note Program	0	3,800,000	0	0	0	0	0	3,800,000
FY 2022 LP&L Revenue Bonds	0	0	6,685,000	0	0	0	0	6,685,000
FY 2023 20-Year LP&L Revenue Bonds	0	0	0	5,335,000	0	0	0	5,335,000
Total Funding Sources	0	3,800,000	6,685,000	5,335,000	0	0	0	15,820,000

Project Name **Downtown Redevelopment** *Project Number* **92695**

Managing Department **Electric Distribution Su**

Project Manager **Jarrod Huse**

Project Classification **Replacement Infrastructure**

Project Status **Approved**

Project Scope

This project includes engineering, planning, easement & material acquisition and construction labor necessary to facilitate reroutes, upgrades and new installations of underground feeders, sub-feeders, switchgear, transformers, street lights, secondary services and removal of LP&L overhead facilities in downtown Lubbock. Purposes for which being to upgrade infrastructure, improve system reliability, minimize overhead facilities and accommodate redevelopment projects. Geographic limits to the project are Marsha Sharp Freeway to 19th St and Avenue Q to Interstate 27.

Project Justification

LP&L currently serves a significant portion of the downtown area with overhead facilities. This project allows LP&L to upgrade/modernize its system by relocating underground where feasible. In doing so, this helps to accommodate the City of Lubbock's overall goals for a revitalized downtown while addressing the needs of each redevelopment project as they occur.

Project History

$650,000 was appropriated in the FY 2020-21 Budget, Ord. No. 2020-O0123, October 1, 2020.

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Project Amount
Construction	0	650,000	1,725,000	785,000	0	0	0	3,160,000
Total Project Appropriation	0	650,000	1,725,000	785,000	0	0	0	3,160,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2018 20-Year LP&L Revenue Bonds	0	250,000	0	0	0	0	0	250,000
FY 2021 LP&L 20-Year Revolving Note Program	0	400,000	0	0	0	0	0	400,000
FY 2022 LP&L Revenue Bonds	0	0	1,725,000	0	0	0	0	1,725,000
FY 2023 20-Year LP&L Revenue Bonds	0	0	0	785,000	0	0	0	785,000
Total Funding Sources	0	650,000	1,725,000	785,000	0	0	0	3,160,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Substation Capacity Upgrade - Erskine** *Project Number* **2012098**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Requested**

Project Scope

Purchase and install new substation power transformers. This project will include the procurement and installation of the transformers and the associated bus, breaker, and relay upgrades that will be required along with the larger capacity transformers.

Project Justification

The project will replace two 40+ year old transformers (1973) at Erskine Substation. This will increase capacity and provide better reliability.

FERC Accounts: 361, 362

Estimated Useful Life: 30 years

Project History

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	0	0	2,230,000	4,785,000	7,015,000
Design and Engineering	0	0	0	0	655,000	0	0	655,000
Total Project Appropriation	0	0	0	0	655,000	2,230,000	4,785,000	7,670,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2024 20-Year LP&L Revenue Bonds	0	0	0	0	655,000	0	0	655,000
FY 2025 20-Year LP&L Revenue Bonds	0	0	0	0	0	2,230,000	0	2,230,000
FY 2026 20-Year LP&L Revenue Bonds	0	0	0	0	0	0	4,785,000	4,785,000
Total Funding Sources	0	0	0	0	655,000	2,230,000	4,785,000	7,670,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Substation Capacity Upgrade - Co-op** *Project Number* **2015027**

Managing Department **7611-Distribution Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Facility**

Project Status **Requested**

Project Scope

Purchase and install new substation power transformers. This project will include the procurement and installation of the transformers, substation bus, breakers, and relay upgrades that will be required.

Project Justification

The project will replace two 40+ year old transformers at Co-op Substation. This will increase the capacity of the substation and provide greater operational reliability.

FERC Accounts: 361, 362

Estimated Useful Life: 30 years

Project History

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	2,135,000	4,580,000	0	0	6,715,000
Design and Engineering	0	0	625,000	0	0	0	0	625,000
Total Project Appropriation	0	0	625,000	2,135,000	4,580,000	0	0	7,340,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2022 LP&L Revenue Bonds	0	0	625,000	0	0	0	0	625,000
FY 2023 20-Year LP&L Revenue Bonds	0	0	0	2,135,000	0	0	0	2,135,000
FY 2024 20-Year LP&L Revenue Bonds	0	0	0	0	4,580,000	0	0	4,580,000
Total Funding Sources	0	0	625,000	2,135,000	4,580,000	0	0	7,340,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Substation Capacity Upgrade - Mackenzie** *Project Number* **2015029**

Managing Department **7611-Transmission Supervision & Engineering**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Requested**

Project Scope

Purchase and install new substation power transformers. This project will include the procurement and installation of the transformers, substation bus, breakers, and relay upgrades that will be required.

Project Justification

The project will replace two 40+ year old transformers at Mackenzie Substation. This will increase the capacity of the substation and provide greater operational reliability.

FERC Accounts: 361, 362

Estimated Useful Life: 30 years

Project History

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	0	2,180,000	4,685,000	0	6,865,000
Design and Engineering	0	0	0	640,000	0	0	0	640,000
Total Project Appropriation	0	0	0	640,000	2,180,000	4,685,000	0	7,505,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2023 20-Year LP&L Revenue Bonds	0	0	0	640,000	0	0	0	640,000
FY 2024 20-Year LP&L Revenue Bonds	0	0	0	0	2,180,000	0	0	2,180,000
FY 2025 20-Year LP&L Revenue Bonds	0	0	0	0	0	4,685,000	0	4,685,000
Total Funding Sources	0	0	0	640,000	2,180,000	4,685,000	0	7,505,000

		Unappropriated Planning Years					
Operating Budget Impact	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Upgrade/Major Maintenance**

Project Status **Requested**

Project Scope

Upgrade the capacity of Thompson Substation. The type of equipment and number or transformers, along with the project scope and justification will be more clearly identified following the distribution planning study (CIP #8626). The project will include the engineering, design, and procurement required to complete the project.

Project Justification

The project will increase the substation capacity required to successfully serve the increasing load growth requirements in the immediate and southwest part of LP&L service area. This will increase the capacity of the substation and provide greater operational reliability to the surrounding systems and substations.

FERC Accounts: 361, 362

Estimated Useful Life: 30 years

Project History

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	0	0	2,230,000	4,785,000	7,015,000
Design and Engineering	0	0	0	0	655,000	0	0	655,000
Total Project Appropriation	0	0	0	0	655,000	2,230,000	4,785,000	7,670,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2024 20-Year LP&L Revenue Bonds	0	0	0	0	655,000	0	0	655,000
FY 2025 20-Year LP&L Revenue Bonds	0	0	0	0	0	2,230,000	0	2,230,000
FY 2026 20-Year LP&L Revenue Bonds	0	0	0	0	0	0	4,785,000	4,785,000
Total Funding Sources	0	0	0	0	655,000	2,230,000	4,785,000	7,670,000

Managing Department **Transmission**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Requested**

Project Scope

Rebuild 115kV transmission line from Coop Substation to McCullough Substation. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an OPGW static neutral wire. Rebuilding is a term used when a line has to be replaced, completely torn down, and rebuilt. This transmission line is 3.5 miles long and the project includes the estimate engineering, materials, and construction costs associated with rebuilding the transmission line.

Project Justification

To alleviate overloading concern, the line has to be rebuilt to increase the ampacity of the transmission line. Increasing the ampacity of the transmission line means to remove the existing 795ACSR conductor and install a bigger conductor to increase the amount of current (Amps) that the transmission line can carry. In this case, LP&L would install 959.6 ACSS/TW to satisfy the rating required on the transmission line. If the existing poles can handle the loads of the new proposed conductors, the project could potentially become a re-conductor project. A re-conductor project only involves taking down the wires and hardware and replacing them with new hardware and larger wires. However, it is most likely that the existing poles are not capable of handling the loading of the new conductors being installed.

FERC Accounts: 350,355,356
Estimated Useful Life: 30 years

Project History

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	10,060,000	0	0	0	10,060,000
Design and Engineering	0	0	600,000	0	0	0	0	600,000
Total Project Appropriation	0	0	600,000	10,060,000	0	0	0	10,660,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2022 30-Year LP&L Revenue Bonds	0	0	600,000	0	0	0	0	600,000
FY 2023 30-Year LP&L Revenue Bonds	0	0	0	10,060,000	0	0	0	10,060,000
Total Funding Sources	0	0	600,000	10,060,000	0	0	0	10,660,000

Managing Department **Transmission**

Project Manager **Blair McGinnis**

Project Classification **Infrastructure Improvements**

Project Status **Requested**

Project Scope

Rebuild 115kV transmission line from McDonald Substation to Northwest Substation. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire. Rebuilding is a term used when a line has to be replaced, completely torn down, and rebuilt. This transmission line is 4.5 miles long and the project includes the estimate engineering, materials, and construction costs associated with rebuilding the transmission line.

Project Justification

To alleviate overloading concern, the line has to be rebuilt to increase the ampacity of the transmission line. Increasing the ampacity of the transmission line means to remove the existing 795ACSR conductor and install a larger conductor to increase the amount of current (Amps) that the transmission line can carry. LP&L plans to install 959.6 ACSS/TW to raise the rating of the transmission line. If the existing poles can handle the loads of the new proposed conductors, the project would potentially become a re-conductor project. A re-conductor project only involves taking down the wires and hardware and replacing them with new hardware and larger wires. However, it is most likely that the existing poles are not capable of handling the loading of the new larger and heavier conductors being installed.

FERC Accounts: 350,355,356
Estimated Useful Life: 30 years

Project History

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	0	5,000,000	7,575,000	0	12,575,000
Design and Engineering	0	0	0	0	1,225,000	0	0	1,225,000
Total Project Appropriation	0	0	0	0	6,225,000	7,575,000	0	13,800,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2024 30-Year LP&L Revenue Bonds	0	0	0	0	6,225,000	0	0	6,225,000
FY 2025 30-Year LP&L Revenue Bonds	0	0	0	0	0	7,575,000	0	7,575,000
Total Funding Sources	0	0	0	0	6,225,000	7,575,000	0	13,800,000

Managing Department **Transmission And Distribution**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Requested**

Project Scope

Rebuild 0.5 miles of a 69kV transmission line from the Brandon Substation to the Vicksburg Substation. The transmission line is primarily constructed of 70-75 foot wood poles and has single-circuit or double-circuit distribution under-build for most of the line. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire, however the final determination of the conductor is subject to change based on engineering analyses. The line may be re-insulated for 115kV if deemed necessary, and is a design change that does not affect the operation of the line.

Rebuilding is a term used when a line has to be replaced, completely torn down, and rebuilt. A rebuild job is different from a re-conductor job, a re-conductor job only involves taking down the wires and hardware and replacing them with new hardware and larger wires. Installing a larger wire/conductor also lowers or decreases the resistance of the transmission line.

The engineering analysis on the transmission pole line will determine whether the double circuit structures on the line (shared with the Brandon to Erskine line) will need to be replaced to accommodate 959.6 ACSS/TW conductor specifications and proper phase spacing for 115kV insulation. The project will also reconductor 1.5 miles of 477ACSR conductor that is on a double circuit steel pole line (in parallel with the Brandon to Erskine transmission line). The project includes the estimated engineering, material, and construction costs associated with rebuilding the transmission line.

Project Justification

The existing 477 ACSR 69kV transmission line has exceeded its life expectancy as it was built in the 1960s. This is also a high impedance line restricting the power flow in the transmission system thus putting adjacent lines in danger of exceeding their capacity during emergency (N-1) conditions. The new transmission line may be insulated for 115kV, but the line will continue to be operated at 69kV until such time that the transmission planning group deems it necessary to prevent system overloads.

FERC Accounts: 350, 355, 356
Estimated Useful Life: 30 years

Project History

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	0	0	6,565,000	0	6,565,000
Total Project Appropriation	0	0	0	0	0	6,565,000	0	6,565,000

Project Name **69/115kV Line Rebuild: Brandon-Vicksburg** *Project Number* **2019118**

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2025 30-Year LP&L Revenue Bonds	0	0	0	0	0	6,565,000	0	6,565,000
Total Funding Sources	0	0	0	0	0	6,565,000	0	6,565,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **69/115kV Line Rebuild: Brandon-Erskine** *Project Number* **2019119**

Managing Department **Transmission**

Project Manager **Blair McGinnis**

Project Classification **Replacement Infrastructure**

Project Status **Requested**

Project Scope

Rebuild 0.5 miles of a 69kV transmission line from the Brandon Substation to the Erskine Substation. The transmission line is primarily constructed of 70-75 foot wood poles and has single-circuit or double-circuit distribution under-build for most of the line. The new transmission line will be 959.6 aluminum conductor steel supported trapezoidal wire (ACSS/TW) with an optical ground wire (OPGW) static neutral wire, however the final determination of the conductor is subject to change based on engineering analyses. The line may be re-insulated for 115kV if deemed necessary, and is a design change that does not affect the operation of the line.

Rebuilding is a term used when a line has to be replaced, completely torn down, and rebuilt. A rebuild job is different from a re-conductor job, a re-conductor job only involves taking down the wires and hardware and replacing them with new hardware and larger wires. Installing a larger wire / conductor also lowers or decreases the resistance of the transmission line. The engineering analysis on the transmission pole line will determine whether the double circuit structures on the line (shared with Brandon to Vicksburg line) will need to be replaced to accommodate 959.6 ACSS/TW conductor specifications and proper phase spacing for 115kV insulation.

The project will also reconductor 1.5 miles of 477ACSR conductor that is on a double circuit steel pole line (in parallel with the Brandon to Vickburg Transmission line). The project includes the estimated engineering, material, and construction cost associated with rebuilding the transmission line.

Project Justification

The existing 477 ACSR 69kV transmission line has exceeded its life expectancy as it was built in the 1960s. This is also a high impedance line restricting the power flow in the transmission system thus putting adjacent lines in danger of exceeding their capacity during emergency (N-1) conditions. The new transmission line may be insulated for 115kV, but the line will continue to be operated at 69kV until such time that the transmission planning group deems it necessary to prevent system overloads.

FERC Accounts: 350, 355, 356
Estimated Useful Life: 30 years

Project History

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	0	0	3,680,000	4,785,000	8,465,000
Total Project Appropriation	0	0	0	0	0	3,680,000	4,785,000	8,465,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2025 30-Year LP&L Revenue Bonds	0	0	0	0	0	3,680,000	0	3,680,000
FY 2026 30-Year LP&L Revenue Bonds	0	0	0	0	0	0	4,785,000	4,785,000
Total Funding Sources	0	0	0	0	0	3,680,000	4,785,000	8,465,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Substation Building** *Project Number* **2020016**

Managing Department **Substation**

Project Manager **Michael Coomer**

Project Classification **Replacement Facility**

Project Status **Requested**

Project Scope
Construction and engineering of new metal building with offices for the Substation Department.

Project Justification
New building will hold offices and equipment vital to the LP&L infrastructure. It would allow us to store equipment inside, out of the weather, when not in use. That would help cut down on equipment maintenance, It would also free up office space for other departments (example: Streetlight or Service Department) and relieve some of the parking issues that are occuring.

Project History

Appropriation Detail	Appropriation to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	0	0	0	900,000	900,000
Design and Engineering	0	0	0	0	0	0	125,000	125,000
Total Project Appropriation	0	0	0	0	0	0	1,025,000	1,025,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2026 LP&L Cash	0	0	0	0	0	0	1,025,000	1,025,000
Total Funding Sources	0	0	0	0	0	0	1,025,000	1,025,000

Operating Budget Impact	FY 2020-21	Unappropriated Planning Years FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Impact
No Impact Anticipated	0	0	0	0	0	0	0
Total Operating Budget Impact	0	0	0	0	0	0	0

Project Name **Street Light LED Conversion** *Project Number* **2020029**

Managing Department **7421-Distribution Street Lights**

Project Manager **Toby Warden**

Project Classification **Street Lighting**

Project Status **Requested**

Project Scope

This project will proceed the Street Light Audit project which will identify all of the high-pressure sodium lights within the city. Replace all high-pressure sodium streetlights throughout the City of Lubbock with a high efficiency Light-emitting Diode (LED) lighting in phases. The new LED heads will have a 7-pin photo control receptible with dimmable driver creating a smart grid lighting solution to help identify issues when they arise.

Project Justification

LED street light fixtures provide vastly superior light output, clarity and efficiency when compared to old high-pressure sodium heads. High-pressure sodium heads are becoming obsolete and manufacturers have started to discontinue replacement parts as states and municipalities nation-wide move to LED. Retrofitted LED fixtures reduce light pollution, which is misdirected light that is unintentionally transmitted into the sky. New LED roadway lights have flat fixtures that more efficiently focus the light where needed on the roadway while minimizing side and skyward glare. This would bring Lubbock closer to dark-sky compliance. Current street light power consumption estimates are 12 megawatts per night (non-revenue service to the city). Projected energy savings with LED are 70%. In addition to substantial power consumption savings, a modern street light network will drastically reduce maintenance expenses. With smart grid technology, maintenance crews will be able to idtify problems from the office instead of having to manually ride-out cicuits looking for problems or relying on citizen reports of street lights not operating correctly.

Project History

Appropriation Detail	Appropriation to Date	FY 2020-21	Unappropriated Planning Years					Total Appropriation
			FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
Construction	0	0	3,780,000	3,870,000	3,965,000	0	0	11,615,000
Design and Engineering	0	0	400,000	400,000	400,000	0	0	1,200,000
Total Project Appropriation	0	0	4,180,000	4,270,000	4,365,000	0	0	12,815,000

Funding Detail	Funding to Date	FY 2020-21	Unappropriated Planning Years					Total Funding
			FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	
FY 2022 LP&L Cash	0	0	4,180,000	0	0	0	0	4,180,000
FY 2023 LP&L Cash	0	0	0	4,270,000	0	0	0	4,270,000
FY 2024 LP&L Cash	0	0	0	0	4,365,000	0	0	4,365,000
Total Funding Sources	0	0	4,180,000	4,270,000	4,365,000	0	0	12,815,000

Project Name **Substation Capacity Upgrade - Vicksburg** *Project Number* **2020035**

Managing Department **Transmission**

Project Manager **Blair McGinnis**

Project Classification **Upgrade/Major Maintenance**

Project Status **Requested**

Project Scope

Purchase and install new substation power transformers. This project will include an expansion of the yard into a previously owned water facility and the associated dirt work to meet substation standards. This project will also replace the existing switchgear and upgrade the relay protection. The relay protection upgrade includes; relay protection for the new substation transformers, additional feeders, and 115kV bus protection. This project will include the engineering, materials, and construction costs associated with the project.

Project Justification

The project will replace a 30+ year old transformer at Vicksburg Substation that have reached it's end of life. This will increase the capacity of the substation and provide greater operational reliability.

The switchgear replacement is required to conform to the new LP&L standard substation design. Each of the transformers will be fed by a 115kV breaker and will connect to new overhead open air distribution busses that will serve 8 distribution feeder circuits. This new open air design configuration is easily expandable and safer than the existing metalclad switchgear.

The new relay protection for the transformers, feeders, and busses is required to implement the new LP&L standard design for a fully integrated substation protection package. This protection is designed to quickly isolate faulted parts of the transmission system in order to protect the equipment, protect the unaffected parts of the system, and to improve the reliability of the transmission network. The relay protection includes primary and backup protection for all protection areas/schemes.

Project History

			Unappropriated Planning Years					
Appropriation Detail	Appropriation to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Appropriation
Construction	0	0	0	2,590,000	4,145,000	0	0	6,735,000
Design and Engineering	0	0	0	400,000	0	0	0	400,000
Total Project Appropriation	0	0	0	2,990,000	4,145,000	0	0	7,135,000

			Unappropriated Planning Years					
Funding Detail	Funding to Date	FY 2020-21	FY 2021-22	FY 2022-23	FY 2023-24	FY 2024-25	FY 2025-26	Total Funding
FY 2023 20-Year LP&L Revenue Bonds	0	0	0	2,990,000	0	0	0	2,990,000
FY 2024 20-Year LP&L Revenue Bonds	0	0	0	0	4,145,000	0	0	4,145,000
Total Funding Sources	0	0	0	2,990,000	4,145,000	0	0	7,135,000

Electric Rate/Tariff Schedule

Amended October 1, 2020

Lubbock Power & Light Electric Rate/Tariff Schedule

Service Schedules

Type of Service	Rate Class
General Terms and Conditions	
Residential Standard Service	Rate 1
Residential Electric Space Heating Service	Rate 3
Residential Net Metering Service	Rate 5
Small General Service	Rate 10
Small General Service Net Metering	Rate 11
Large School Service	Rate 15
Secondary General Service and Secondary General Service Net Metering	Rate 16
Primary General Service	Rate 16P
Transmission General Service	Rate 16T
State University General Service	Rate 16U
Large Municipal Service	Rate 17
Street Lighting Service	Rate 18
General Religious Service	Rate 19
Small Municipal & School Service	Rate 21
Optional Time-of-Use Service Rider	
Guard Light Service	
Flood Light Service	
Miscellaneous Service Charges	
Power Cost Recovery Factor	

GENERAL TERMS AND CONDITIONS

In order that all Customers (as defined below) may receive uniform, efficient, and adequate service, electric service will be supplied to and accepted by all Customers receiving service from the City of Lubbock's municipally owned electric utility, Lubbock Power & Light (sometimes referred to herein as "LP&L"), in accordance with these Terms and Conditions, including the attached Rate/Tariff Schedule ("Rate Schedule" or "Tariff"). For purposes of this Rate Schedule, "Customer" shall mean any person, firm, corporation or other legal entity receiving electric service from Lubbock Power & Light. All references herein to either the City of Lubbock or Lubbock Power & Light shall be inclusive of the other.

1. Customer's Installation. Customer is responsible, at its own expense, for installing and maintaining such protective devices as are recommended or required by the then current edition of the National Electrical Code or as may be necessary to protect Customer's equipment or process during abnormal service conditions or the failure of all or a part of the electric service provided by LP&L. Such protective devices include, but are not limited to, equipment necessary to limit voltage fluctuations, transients, or harmonics such that neither LP&L nor LP&L's other Customers are adversely affected. All wiring and other electrical equipment furnished by the Customer will be installed, operated, and maintained by the Customer at all times in conformity with good electrical practice and with the requirements of the constituted authorities and these Terms and Conditions. LP&L is not obligated to serve any equipment or any premises that has a detrimental effect on LP&L equipment or the equipment of LP&L Customers.

   Any adjustments claimed by a Customer related to (i) the application of inaccurate rates or fees; (ii) inaccurate meter readings, (iii) meters or charges not corresponding to the Customer's premises; or (iv) charges otherwise in excess of correct charges, must be presented by Customer to LP&L, Attention: City of Lubbock Utilities Customer Service, within six (6) months of the claimed rate, fee or meter inaccuracy to be duly considered by LP&L. The requirement of timely presentation, as set forth above, shall not apply in instances wherein a Customer is billed for service that is not received by Customer due to mistake of LP&L. Back-billing shall not exceed a period of six months, if it is found that a higher rate or charge should have been applied to Customer, and Customer has no fault in the incorrect rate or charge.

   Nothing contained in this Rate Schedule shall be construed to require a person or entity located within the Lubbock Power & Light certificated service area ("Lubbock Power & Light Service Territory") to accept electric utility service from LP&L.

2. Continuous Service. Lubbock Power & Light shall use reasonable diligence to provide continuous electric service but Lubbock Power & Light does not guarantee against irregularities, interruptions, or fluctuating wave form or frequency, it being understood that occasional irregularities, interruptions, and fluctuations may occur. Lubbock Power & Light shall not be liable for damages or injury, including but not limited to consequential or economic loss damages, occasioned by interruption, failure to commence delivery

voltage, wave form or frequency fluctuation caused by an act of God or the public enemy, a breakdown of plant, lines or equipment, accidents, fire, explosion, strikes, riots, war, pandemics, delay in receiving shipments of required materials, order of any court or judge granted in any bona fide adverse legal proceedings or action or any order by any commission or tribunal having jurisdiction**; OR, WITHOUT LIMITATION BY THE PRECEDING ENUMERATION, ANY OTHER ACT OR THING DUE TO CAUSES BEYOND LUBBOCK POWER & LIGHT'S CONTROL, OR DUE TO THE NEGLIGENCE OF LUBBOCK POWER & LIGHT, ITS EMPLOYEES, OR CONTRACTORS,** except to the extent that the damages are occasioned by the gross negligence or willful misconduct of Lubbock Power & Light.

3. Intentional Interruption of Service. Lubbock Power & Light may, without notice and without liability to the Customer, interrupt service to the Customer when, in Lubbock Power & Light's sole judgment, the interruption of service:

   a. will prevent or alleviate an emergency threatening to disrupt the operation of Lubbock Power & Light's system;
   b. will lessen or remove possible danger to life or property;
   c. will aid in the restoration of electric service; or
   d. is required to make necessary repairs to or changes in Lubbock Power & Light's facilities.

   Lubbock Power & Light may, in the event of a national emergency or local disaster resulting in disruption of normal service, in the public interest, interrupt service to the Customer to provide necessary service to civil defense or other emergency service agencies on a temporary basis until normal service to the agencies can be restored.

4. Disclaimer of Warranties. **LUBBOCK POWER & LIGHT AND THE CITY MAKES NO WARRANTIES WHATSOEVER WITH REGARD TO THE PROVISION OF ANY SERVICE AND DISCLAIMS ANY AND ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

5. Discontinuance, Suspension and Refusal of Service. In addition to and in conjunction with any other federal, state or local law regarding discontinuance, suspension or refusal of utility service, Lubbock Power & Light may discontinue, suspend or refuse to supply electric service to any Customer for the following reasons:
   a. Disconnection with notice. Lubbock Power & Light may disconnect electric utility service after proper notice for any of the following reasons:

      (i) failure to pay a bill for electric utility service or failure to comply with the terms of any agreed payment plan;
      (ii) failure to pay a deposit as required by the General Terms and Conditions of the Rate Schedule; or
      (iii) for any other reason whereby Lubbock Power & Light is legally entitled to disconnect electric utility service with notice.

   b. Disconnection without notice. Lubbock Power & Light may disconnect electric utility service without prior notice for any of the following reasons:

(i) where a known dangerous condition exists for as long as the condition exists;
(ii) where service is connected without authority by a person who has not made application for service;
(iii) where service was reconnected without authority after termination for nonpayment;
(iv) failure to comply with the terms of any agreed payment plan where such plan provides for disconnection without further notice;
(v) where there has been tampering with Lubbock Power & Light's equipment or evidence of theft of service; or
(vi) for any other reason whereby Lubbock Power & Light is legally entitled to disconnect electric utility service without notice.

c. Refusal of Service. Lubbock Power & Light may refuse to serve an applicant for service ("applicant") for any of the following reasons:

(i) The applicant's installation or equipment, including but not limited to the meter base, is known to be hazardous or of such a character that safe or satisfactory service cannot be given.
(ii) The applicant owes a debt to Lubbock Power & Light for electric service.
(iii) The applicant applies for service at a location where another Customer received, or continues to receive, service and the electric utility bill is unpaid at that location, if the change in identity is made in an attempt to assist the other Customer avoid or evade payment. An applicant may request the Director of Electric Utilities, by providing notice as specified below, to review a decision to not provide service due to a staff determination of an intent to deceive. Notice shall be provided in writing to the Director of Electric Utilities, at 1314 Avenue K, Lubbock, Texas 79401, not later than seven (7) calendar days after the applicant is informed of the reason for refusal to connect.
(iv) The applicant fails to make a deposit if required do so under this tariff.

6. Deposits. Lubbock Power & Light shall require a deposit for electric service, in accordance with the following terms and conditions:

a. Lubbock Power & Light shall require a deposit from the primary applicant in an amount equal to ONE HUNDRED THIRTY FIVE AND NO/100 DOLLARS ($135.00) or ONE-SIXTH (1/6) of the reasonable and good-faith estimate of annual billings of the premise, whichever is greater, except as provided herein.

b. A primary applicant for residential electric service shall be exempt from the deposit requirement if any of the following conditions are met by the primary applicant:

(i) The primary applicant produces, to the satisfaction of Lubbock Power & Light, proof that during the two years prior to applying for electric service from Lubbock Power & Light, the primary applicant was a customer of a utility providing electric service or was a customer of one or more of the City of Lubbock utility services for at least twelve (12) consecutive months; and
1) While a customer, the primary applicant was not delinquent in paying for any utility service on more than one occasion; and while a customer, the

primary applicant never had any of the utility services subject to interruption for nonpayment; or

2) the primary applicant demonstrates adequate and available credit, to the satisfaction of Lubbock Power & Light, by producing evidence of creditworthiness in the primary applicant's name from a utility providing electric service of whom the primary applicant was a customer; or
3) the primary applicant is at least sixty-five (65) years of age and has no outstanding account balance with a utility for utility service including City of Lubbock utility services that accrued within the last two years.

(ii) the primary applicant has been determined to be a victim of family violence as defined in the Texas Family Code §71.004, by a family violence center as defined in Texas Human Resources Code §51.002, by treating medical personnel, by law enforcement personnel, by the Office of a Texas District Attorney or County Attorney, by the Office of the Attorney General, or by a grantee of the Texas Equal Access to Justice Foundation. This determination shall be evidenced by submission of a certification letter developed by the Texas Council on Family Violence. The certification letter may be submitted directly to Lubbock Power & Light.

c. A residential electric service Customer who was exempted from the deposit requirement under Section 6(b) may have the exemption withdrawn and a deposit applied to the account if:
   (i) the Customer's services become delinquent and subject to interruption on more than two (2) occasions in a twelve-month period;
   (ii) payment for utility services has been returned to Lubbock Power & Light / City of Lubbock Utilities as a dishonored payment;
   (iii) tampering with Lubbock Power & Light's equipment, or theft of service, has been found; or
   (iv) the Customer fails to comply with the terms of any agreed payment plan.

d. A primary applicant for non-residential service shall be exempt from the deposit requirement if the primary applicant produces, to the satisfaction of Lubbock Power & Light, the following information:

   (i) Proof that during the two years prior to applying for electric service from Lubbock Power & Light, the primary applicant was a customer of a utility providing electric service or was a customer of one or more of the City of Lubbock utility services for at least twelve (12) consecutive months; and is not currently delinquent in payment of any such utility service account; and
   (ii) While a customer, the applicant was not delinquent in paying for any utility service on more than one occasion; and
   (iii) While a customer, the applicant never had any of the utility services subject to interruption for nonpayment.

e. A non-residential service Customer who was exempted from the deposit requirement under Section 6(d) may have the exemption withdrawn and a deposit applied to the account if:

(i) the Customer's services becomes delinquent and subject to interruption on more than two (2) occasions in a twelve-month period;
(ii) payment for utility services has been returned to Lubbock Power & Light / City of Lubbock Utilities as a dishonored payment;
(iii) tampering with Lubbock Power & Light's equipment, or theft of service, has been found; or
(iv) the Customer fails to comply with the terms of any agreed payment plan.

7. Deposit Refund. Except as provided herein, Customers from whom a deposit has been collected shall be eligible for a refund of said deposit when the following conditions are met by the Customer:

a. A residential Customer has paid bills for service for twelve (12) consecutive residential billings, and while a Customer:
(i) The primary applicants services have not become delinquent and subject to interruption on more than two (2) occasions in a twelve month period;
(ii) payment for utility services have not been returned to Lubbock Power & Light / City of Lubbock Utilities as a dishonored payment;
(iii) tampering with Lubbock Power & Light's equipment, or theft of service, has not been found; and
(iv) the Customer has complied with the terms of any agreed payment plan.

b. A non-residential Customer has paid bills for service for twenty-four (24) consecutive months, and while a Customer:
(i) The primary applicant's services have not become delinquent and subject to interruption on more than two (2) occasions in a twenty-four month period;
(ii) payment for utility services have not been returned to Lubbock Power & Light / City of Lubbock Utilities as a dishonored payment;
(iii) tampering with Lubbock Power & Light's equipment, or theft of service, has not been found; and
(iv) the Customer has complied with the terms of any agreed payment plan.

c. Refunds to eligible Customers shall be made promptly either in the form of a check payable to the Customer or as a credit to the Customer's bill, as determined at the sole discretion of Lubbock Power & Light. A Customer who received a refund of their deposit may have the deposit requirement reapplied if the Customer's service becomes disconnected for non-payment.

d. Lubbock Power & Light shall keep the following records for all deposits collected by Lubbock Power & Light pursuant to this Section:
(i) the name and address of each depositor;
(ii) the amount and date of the deposit; and
(iii) each transaction concerning the deposit.

e. Any deposit not previously refunded to Customer or credited to Customer's account as provided herein shall be credited to Customer's final bill for service.

8. Right of Way. By accepting service under this Tariff, Customer provides, at no expense to Lubbock Power & Light, valid easements and rights-of-way, as required by Lubbock Power & Light, for installation of an electric distribution system to provide electric utility

service to Customer. Subject to and in conjunction with all other applicable federal, state and local laws and regulations, Lubbock Power & Light shall have the right to clear its distribution system and service connection of any interfering tree, shrub, or other obstruction and shall have the right to determine and maintain the amount of clearance it deems necessary in accordance with good utility practices and applicable law.

9. Meter Ownership and Maintenance. Lubbock Power & Light owns, furnishes, installs, programs, calibrates, tests and maintains all meters (but not meter bases) and all associated equipment, used for retail billing and settlement purposes in the Lubbock Power & Light service territory.

10. Access to Premises. Lubbock Power & Light or its authorized agents shall have safe access at all reasonable hours to the premises of Customer for the purpose of inspecting wiring and apparatus, removing or replacing Lubbock Power & Light's property, reading of meters and all other purposes incident to supplying of electric utility service. In the event such safe access is obstructed or otherwise made unavailable, Lubbock Power & Light may take any actions authorized by law, this Rate Schedule, or otherwise to gain access to the premises of Customer.

11. Voltage Tolerances. Lubbock Power & Light may measure and record voltage levels at Customer's billing meter. Voltages outside of the Acceptable Range, as defined below, will be corrected as soon as possible by Lubbock Power & Light. For purposes of this Rate Schedule, voltages within the Acceptable Range shall be deemed consistent with proper electric utility service and good utility practice.

Nominal Voltage (Volts)	**Acceptable Range (Volts)**
120	110-127
208	191-220
240	220-254
277	254-293
480	440-508

12. Agreed Payment Plan. Lubbock Power & Light may allow a Customer to pay an outstanding bill in installments, and if Customer pays according to the agreed upon plan, the Customer avoids disconnection for non-payment. In such event, the Customer may establish a payment plan by contacting Lubbock Power & Light in person, by telephone or by any other electronic communication approved by Lubbock Power & Light. Any such agreed payment plan shall be subject to the following terms and conditions.

    a. The agreed payment plan must be in writing;

b. The Director of Electric Utilities may include terms and conditions consistent with those outlined herein, the Rate Schedule, and applicable federal, state, and local law and regulations.
c. In the event of a conflict between a written agreed payment plan and this Rate Schedule, unless otherwise provided by in agreed payment plan, the terms and conditions of this Rate Schedule shall control.
d. Failure to pay according to the payment plan may result in disconnection of electric utility service to Customer.

13. Right to Amend. This Rate Schedule may be amended or modified by Lubbock Power & Light through a written instrument duly executed by the City Council of the City of Lubbock without further notice provided to Customer, except as otherwise required by law.

14. Severability. If any portion of this Rate Schedule is held unenforceable by a court of competent jurisdiction, the remainder of this Rate Schedule shall not be affected and shall remain fully in force and enforceable.

15. Meter Aggregation. Lubbock Power & Light will bill each electric meter as a single meter. Customers with multiple meters that are rendered to a contiguous area, or that are metered across a dedicated street or alley will be billed on a per meter basis with no aggregation of those meters for billing purposes. Subject to mutual agreement by Customer and Lubbock Power & Light, multiple meters may be electronically or digitally totalized.

16. Interconnection. No Customer may interconnect any distributed generation to the system of Lubbock Power & Light, unless and until an Interconnection Agreement, as defined in Rates 5, 11, and 16 of the Tariff, below, shall be entered into by Customer and Lubbock Power & Light.

17. Applicable Law. **The laws of the State of Texas shall govern the validity, performance and enforcement of this Rate Schedule and the venue for any legal proceedings shall lie solely in courts of competent jurisdiction located in Lubbock County, Texas.**

RESIDENTIAL STANDARD SERVICE

Rate 1

APPLICABLE: To residential Customers for electric service used for domestic purposes in private residences and separately metered individual apartments when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served. Single-phase motors not to exceed 10 horsepower, individual capacity, may be served under this rate.

TERRITORY: Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$8.07 per month per meter
Energy Charge:	$0.03381 per kWh

POWER COST RECOVERY FACTOR: The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

BUDGET BILLING: Budget billing is available upon request. Budget billing is a program that allows a Customer to pay a specified amount each month instead of paying the actual billed amount. Customers must have a minimum of 12 months history at their current address to qualify for budget billing. Customers must have a zero balance at the time budget billing is implemented and must keep their accounts current to remain on budget billing.

TERMS OF PAYMENT:	Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.
CHARACTER OF SERVICE:	AC. 60 hertz. Single-phase 120/240 volts. Three-phase 240 volts where available on secondary.
TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.
EFFECTIVE DATE:	For all electric meters read by LP&L on or after October 1, 2020

RESIDENTIAL
ELECTRIC SPACE HEATING SERVICE

Rate 3

APPLICABLE: To residential Customers for electric service with predominant electric space heating used for domestic purposes in private residences and separately metered individual apartments when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served. Single-phase motors not to exceed 10 horsepower, individual capacity, may be served under this rate. Electric space heating includes permanently installed whole house space heating equipment in regular use, including heat pumps and electric resistance heating and excluding bathroom heaters.

TERRITORY: Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$8.07 per month per meter
Energy Charge:	$0.02921 per kWh

POWER COST RECOVERY FACTOR: The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt-hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

BUDGET BILLING:	Budget billing is available upon request. Budget billing is a program that allows a Customer to pay a specified amount each month instead of paying the actual billed amount. Customers must have a minimum of 12 months history at their current address to qualify for budget billing. Customers must have a zero balance at the time budget billing is implemented and must keep their accounts current to remain on budget billing.
TERMS OF PAYMENT:	Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.
CHARACTER OF SERVICE:	AC. 60 hertz. Single-phase 120/240 volts. Three-phase 240 volts where available on secondary.
TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.
EFFECTIVE DATE:	For all electric meters read by LP&L on or after October 1, 2020

RESIDENTIAL
NET METERING SERVICE

Rate 5

APPLICABLE:

To residential Customers for electric service used for domestic purposes in private residences and separately metered individual apartments when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served. Single-phase motors not to exceed 10 horsepower, individual capacity, may be served under this rate.

This rate is available to Net Metering Customers only. Net Metering Customers are defined as Customers who have installed residential solar technology capable of producing less than 10kW as distributed generation on the Customer side of the Lubbock Power & Light meter. As a condition of service under this Rate Schedule, all Net Metering Customers must sign an agreement for interconnection (as originally approved by the Electric Utility Board ("EUB") by Resolution Number EUB 2015-R0054, dated October 20, 2015, amended by the EUB by Resolution Number EUB 2018-R0072, dated August 21, 2018, and as may be amended, modified, or replaced by action of the EUB) and parallel operation with Lubbock Power & Light. Customers that qualify for this rate will receive credit in kWh generated against kWh consumed in one billing period. KWh credits will only offset up to the amount of kWh consumed in each billing period.

In the event a Net Metering Customer interconnects distributed generation to the LP&L system, such Net Metering Customer shall either (i) enter into an interconnection agreement, as described and required herein; or (ii) be subject to immediate disconnection from the LP&L system.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:

Service Availability Charge: $30.43 per month per meter

Summer Energy Charge (≤1,000kWh):	$0.01292 per kWh
Summer Energy Charge (>1,000kWh):	$0.02349 per kWh
Non-Summer Energy Charge (≤1,000kWh):	$0.00397 per kWh
Non-Summer Energy Charge (>1,000kWh):	$0.01175 per kWh

NON-SUMMER MONTHS:	The billing months of October through May
SUMMER MONTHS:	The billing months of June through September
POWER COST RECOVERY FACTOR:	The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".
FRANCHISE FEE EQUIVALENT:	The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.
TAX:	Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.
BUDGET BILLING:	Budget billing is available upon request. Budget billing is a program that allows a Customer to pay a specified amount each month instead of paying the actual billed amount. Customers must have a minimum of 12 months history at their current address to qualify for budget billing. Customers must have a zero balance at the time budget billing is implemented and must keep their accounts current to remain on budget billing.
TERMS OF PAYMENT:	Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.
CHARACTER OF SERVICE:	AC. 60 hertz. Single-phase 120/240 volts. Three-phase 240 volts where available on secondary.
TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.
EFFECTIVE DATE:	For all electric meters read by LP&L on or after October 1, 2020

SMALL GENERAL SERVICE

Rate 10

APPLICABLE:

To commercial Customers for electric service supplied at secondary voltage for commercial purposes when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served, and whose load does not exceed 10 kW of demand in any month. Single-phase motors not to exceed 10 horsepower, individual capacity, may be served under this rate. Youth-oriented (18 years of age and younger) non-profit sports leagues utilizing electric service for sports field lighting at municipally owned outdoor facilities may be served under this rate regardless of demand. Meters in which the load exceeds 10 kW of demand in any month will be assigned to Rate 16 (Secondary General Service) and will not be eligible to be reassigned to Rate 10 until there have been 12 consecutive months where loads have not exceeded 10 kW of demand.

Not applicable to temporary, breakdown, standby, supplementary, resale or shared service.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$13.55 per month per meter
Energy Charge:	$0.01987 per kWh

POWER COST RECOVERY FACTOR:

The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT:

The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX:	Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.
TERMS OF PAYMENT:	Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.
CHARACTER OF SERVICE:	AC. 60 hertz. Single-phase 120/240 volts. Three-phase 240 volts where available on secondary.
TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.
EFFECTIVE DATE:	For all electric meters read by LP&L on or after October 1, 2020

SMALL GENERAL NET METERING SERVICE

Rate 11

APPLICABLE:

To commercial Customers for electric service supplied at secondary voltage for commercial purposes when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served, and whose load does not exceed 10 kW of demand in any month. Meters in which the load exceeds 10 kW of demand in any month will be assigned to Rate 16 (Secondary General Service) and will not be eligible to be reassigned to Rate 11 until there have been 12 consecutive months where loads have not exceeded 10 kW of demand. Single-phase motors not to exceed 10 horsepower, individual capacity, may be served under this rate.

This rate is available to Net Metering customers only. Net Metering Customers are defined as Customers who have installed non-residential solar or wind technology capable of producing less than 10kW as distributed generation on the Customer side of the Lubbock Power & Light meter. As a condition of service under this Rate Schedule, all Net Metering Customers on this rate must sign an agreement for interconnection (as originally approved by the Electric Utility Board ("EUB") by Resolution Number EUB 2015-R0054, dated October 20, 2015, amended by the EUB by Resolution Number EUB 2018-R0072, dated August 21, 2018, and as may be amended, modified, or replaced by action of the EUB) and parallel operation with Lubbock Power & Light. Customers that qualify for this rate will receive credit in kWh generated against kWh consumed in one billing period. KWh credits will only offset up to the amount of kWh consumed in each billing period.

Not applicable to temporary, breakdown, standby, supplementary, resale or shared service.

In the event a Net Metering Customer interconnects distributed generation to the LP&L system, such Net Metering Customer shall either (i) enter into an interconnection agreement, as described and required herein; or (ii) be subject to immediate disconnection from the LP&L system.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:	Service Availability Charge:	$28.77 per month
	Energy Charge (≤1,000kWh):	$0.00076 per kWh
	Energy Charge (>1,000kWh):	$0.01878 per kWh

POWER COST RECOVERY FACTOR: The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) for competitive purposes, by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any competing electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

TERMS OF PAYMENT: Payment due on receipt. A late charge of 5% will be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.

CHARACTER OF SERVICE: AC. 60 hertz. Single-phase 120/240 volts. Three-phase 240 volts where available on secondary.

TERMS & CONDITIONS: Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock. In the event a Net Metering Customer entitled to service under Rate 11 is a purchaser under a power purchase agreement ("PPA") with LP&L, in which the rates for service and power to such Net Metering Customer are provided therein, such rates payable by Net Metering Customer shall be as provided in the PPA (in lieu of this Tariff), so long as such PPA shall remain valid and subsisting and enforceable against Net Metering Customer. Further, in such instance, in the event of a conflict between this Tariff and the PPA, the terms of the PPA shall control.

EFFECTIVE DATE: For all electric meters read by LP&L on or after October 1, 2020

LARGE SCHOOL SERVICE

Rate 15

APPLICABLE:

To all public and private school facilities supplied at secondary voltage for school purposes when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served and whose load exceeds 10 kW of demand in any month. Meters on this rate with loads that drop to 10 kW of demand or below will be eligible to be reassigned to Rate 21 (Small Municipal and School Service) only after 12 consecutive months where loads have not exceeded 10 kW of demand.

Not applicable to temporary, breakdown, standby, supplementary, resale or shared service, or to service for which a specific rate schedule is provided.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$39.74 per month per meter
Energy Charge:	$0.00049 per kWh
Demand Charge:	$5.77410 per kW

DEMAND:

Lubbock Power & Light will furnish at its expense the necessary metering equipment to measure the Customer's kW demand for the 15 or 30-minute period (as applicable per LP&L's metering technology selected) of greatest use during the month. In the absence of a demand meter, the Customer's demand will be billed using the monthly kilowatt-hours and an average load factor of 41.30 percent. In no month, shall the billing demand be greater than the kW value determined by dividing the kWh sales for the billing period by 29 hours.

POWER COST RECOVERY FACTOR:

The charge per kilowatt and kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt and kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

POWER FACTOR: Applicable to Customers on this rate schedule with a peak demand of 200 kW or greater. At all times, Customer will maintain at Lubbock Power & Light's point of delivery, a power factor of not less than 85% lagging.

Where Customer fails to maintain a power factor of at least 85% lagging at LP&L's point of delivery, Customer shall install suitable capacitors or other equipment necessary to raise the overall power factor at the point of delivery to a satisfactory value. Where such power factor correction equipment is used, Customer shall install a relay, switch or other regulating equipment for purposes of disconnecting or controlling the power factor correction equipment in order to prevent excessive voltage conditions on Lubbock Power & Light's system.

TERMS OF PAYMENT: Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.

CHARACTER OF SERVICE: AC. 60 hertz. Single-phase or three-phase, at one available standard voltage.

TERMS & CONDITIONS: Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.

EFFECTIVE DATE: For all electric meters read by LP&L on or after October 1, 2020

SECONDARY GENERAL SERVICE AND SECONDARY GENERAL SERVICE NET METERING

Rate 16

APPLICABLE:

To all commercial and industrial Customers for electric service supplied at secondary voltage for commercial purposes when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served and whose load exceeds 10 kW of demand in any month. Meters on this rate with loads that drop to 10 kW of demand or below will be eligible to be reassigned to Rate 10 (Small General Service) only after 12 consecutive months where loads have not exceeded 10 kW of demand.

This rate is also available for Net Metering Customers. Net Metering Customers are defined as Customers who have installed solar or wind distributed generation on the Customer side of the Lubbock Power & Light meter. As a condition of service under this Rate Schedule, all Net Metering Customers with installed non-residential solar or wind technology capable of producing less than 200kW as distributed generation must sign an agreement for interconnection (as originally approved by the Electric Utility Board ("EUB") by Resolution Number EUB 2015-R0054, dated October 20, 2015, amended by the EUB by Resolution Number EUB 2018-R0072, dated August 21, 2018, and as may be amended, modified, or replaced by action of the EUB) and parallel operation with Lubbock Power & Light. Net Metering Customers that qualify for this rate will receive credit in kWh generated against kWh consumed in one billing period. KWh credits will only offset up to the amount of kWh consumed in each billing period. Demand will be billed as maximum demand greater than zero.

Not applicable to temporary, breakdown, standby, supplementary, resale or shared service.

In the event a Net Metering Customer interconnects distributed generation to the LP&L system, such Net Metering Customer shall either (i) enter into an interconnection agreement, as described and required herein; or (ii) be subject to immediate disconnection from the LP&L system.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:	Service Availability Charge:	$28.56 per month per meter
	Energy Charge:	$0.00080 per kWh
	Summer Demand Charge:	$8.00922 per kW
	Non-Summer Demand Charge:	$4.28400 per kW
NON-SUMMER MONTHS:	The billing months of October through May	
SUMMER MONTHS:	The billing months of June through September	

DEMAND: Lubbock Power & Light will furnish at its expense the necessary metering equipment to measure Customer's kW demand for the 15 or 30-minute period (as applicable per LP&L's metering technology selected) of greatest use during the month. In the absence of a demand meter, the Customer's demand will be billed using the monthly kilowatt-hours and an average load factor of 57.01 percent. In no month, shall the billing demand be greater than the kW value determined by dividing the kWh sales for the billing period by 29 hours. There will be no demand cap for Net Metering Customers.

POWER COST RECOVERY FACTOR: The charge per kilowatt and kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt and kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

POWER FACTOR: Applicable to Customers on this rate schedule with a peak demand of 200 kW or greater. At all times, Customer will maintain at Lubbock Power & Light's point of delivery, a power factor of not less than 85% lagging. Where Customer fails to maintain a power factor of at least 85% lagging at LP&L's point of delivery, Customer shall install suitable capacitors or other equipment necessary to raise the overall power factor at the point of delivery to a satisfactory value. Where such power factor correction equipment is used, Customer shall install a relay, switch or other regulating equipment for purposes of disconnecting or controlling the power factor correction equipment in order to prevent excessive voltage conditions on Lubbock Power & Light's system.

TERMS OF PAYMENT: Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.

CHARACTER OF SERVICE: AC. 60 hertz. Single-phase or three-phase, at one available standard voltage.

TERMS & CONDITIONS: Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock. In the event a Customer entitled to service under Rate 16 is a purchaser under a power purchase agreement ("PPA") with LP&L, in which the rates for service and power to such Customer are provided therein, such rates payable by Customer shall be as provided in the PPA (in lieu of this Tariff), so long as such PPA shall remain valid and subsisting and enforceable against Customer. Further, in such instance, in the event of a conflict between this Tariff and the PPA, the terms of the PPA shall control.

EFFECTIVE DATE: For all electric meters read by LP&L on or after October 1, 2020

PRIMARY GENERAL SERVICE

Rate 16P

APPLICABLE:

To all commercial and industrial Customers for electric service supplied at primary voltage for commercial purposes when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served.

Not applicable to temporary, breakdown, standby, supplementary, resale or shared service.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$310.44 per month per meter
Energy Charge:	$0.00057 per kWh
Demand Charge:	$5.15323 per kW

DEMAND:

Lubbock Power & Light will furnish at its expense the necessary metering equipment to measure the Customer's kW demand for the 15 or 30-minute period (as applicable per LP&L's metering technology selected) of greatest use during the month. In the absence of a demand meter, the Customer's demand will be billed using the monthly kilowatt-hours and an average load factor of 69.71 percent. In no month, shall the billing demand be greater than the kW value determined by dividing the kWh sales for the billing period by 29 hours.

LOSS ADJUSTMENT:

When metering is installed on the secondary (Customer's) side of any voltage transformation made at less than available primary voltage at the point of service, the meter readings for billing purposes shall be increased to include all transformation losses.

POWER COST RECOVERY FACTOR:

The charge per kilowatt and kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt and kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

POWER FACTOR: Applicable to Customers on this rate schedule with a peak demand of 200 kW or greater. At all times, Customer will maintain at Lubbock Power & Light's point of delivery, a power factor of not less than 85% lagging. Where Customer fails to maintain a power factor of at least 85% lagging at LP&L's point of delivery, Customer shall install suitable capacitors or other equipment necessary to raise the overall power factor at the point of delivery to a satisfactory value. Where such power factor correction equipment is used, Customer shall install a relay, switch or other regulating equipment for purposes of disconnecting or controlling the power factor correction equipment in order to prevent excessive voltage conditions on Lubbock Power & Light's system.

TERMS OF PAYMENT: Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.

CHARACTER OF SERVICE: AC. 60 hertz. Single-phase or three-phase at Lubbock Power & Light's available primary voltage.

TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock. In the event a Customer entitled to service under Rate 16P is a purchaser under a power purchase agreement ("PPA") with LP&L, in which the rates for service and power to such Customer are provided therein, such rates payable by Customer shall be as provided in the PPA (in lieu of this Tariff), so long as such PPA shall remain valid and subsisting and enforceable against Customer. Further, in such instance, in the event of a conflict between this Tariff and the PPA, the terms of the PPA shall control.
EFFECTIVE DATE:	For all electric meters read by LP&L on or after October 1, 2020

TRANSMISSION GENERAL SERVICE

Rate 16T

APPLICABLE:

To all commercial and industrial Customers for electric service supplied at transmission voltage of 69kV or above for commercial purposes when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served.

Not applicable to temporary, breakdown, standby, supplementary, resale or shared service.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$310.44 per month per meter
Energy Charge:	$0.00055 per kWh
Demand Charge:	$2.73 per kW

DEMAND:

Lubbock Power & Light will furnish at its expense the necessary metering equipment to measure the Customer's kW demand for the 15 or 30-minute period (as applicable per LP&L's metering technology selected) of greatest use during the month.

LOSS ADJUSTMENT:

When metering is installed at voltage less than 69kV or on Customer's side at lower voltage of any voltage transformation made at less than available transmission voltage at the point of service, the meter readings for billing purposes shall be increased to include all transformation losses.

POWER COST RECOVERY FACTOR:

The charge per kilowatt and kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt and kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

POWER FACTOR: Applicable to Customers on this rate schedule with a peak demand of 200 kW or greater. At all times, Customer will maintain at Lubbock Power & Light's point of delivery, a power factor of not less than 90% lagging.

In the event a low voltage condition due to lagging power factor exists in a degree sufficient to impair Lubbock Power & Light's service, Customer shall install suitable capacitors or other equipment necessary to raise the over-all power factor at the point of delivery to a satisfactory value. Where such power factor correction equipment is used, Customer shall install a relay, switch or other regulating equipment for purposes of disconnecting or controlling the power factor correction equipment in order to prevent excessive voltage conditions on Lubbock Power & Light's system.

TERMS OF PAYMENT: Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.

CHARACTER OF SERVICE: AC. 60 hertz. Three-phase at Lubbock Power & Light's available transmission voltage of approximately 69 kV or above.

TERMS & CONDITIONS: Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.

EFFECTIVE DATE: For all electric meters read by LP&L on or after October 1, 2020

STATE UNIVERSITY GENERAL SERVICE

Rate 16U

APPLICABLE:

To all State of Texas universities using more than 100,000,000 kWh per year where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served.

Not applicable to temporary, breakdown, standby, supplementary, resale or shared service.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$0.00 per month per meter
Demand Charge:	$0.00
Energy Charge:	$0.012150 per kWh

WHOLESALE POWER CHARGE:

The charge per kilowatt-hour of the above rate shall be increased by an amount equal to LP&L's average cost of Wholesale Power for the month immediately preceding the current billing month for the Customer as delivered to all LP&L Customers including assumed system losses of 2%. The Wholesale Power Charge shall be calculated monthly by dividing (i) the amount of the Total Bill for Wholesale Power for the month immediately preceding the current billing month for the Customer including any prior month adjustments by (ii) the kWh delivered to all LP&L Customers in the month immediately preceding the current billing month for the Customer. The kWh delivered to all LP&L Customers shall be calculated by reducing by 2% the kWh delivered to LP&L's delivery points by SPS as shown on the Wholesale Power bill of the month immediately preceding the current billing month for the Customer. This reduction is an adjustment to account for line losses occurring between LP&L's point(s) of interconnection with SPS and the delivery points of the Customer.

TERMS OF PAYMENT:	Payment due 30 days after bill date or as otherwise required by state law. If the 30th day falls on a weekend or an official City of Lubbock recognized holiday, the due date will be extended until the next business day. A late charge of 1% or as authorized by state law, whichever is greater, may be added to all bills not paid by the due date.
CHARACTER OF SERVICE:	AC. 60 hertz. Single-phase or three-phase at Lubbock Power & Light's available secondary voltage.
TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock. In the event a Customer entitled to service under Rate 16U is a purchaser under a power purchase agreement ("PPA") with LP&L, in which the rates for service and power to such Customer are provided therein, such rates payable by Customer shall be as provided in the PPA (in lieu of this Tariff), so long as such PPA shall remain valid and subsisting and enforceable against Customer. Further, in such instance, in the event of a conflict between this Tariff and the PPA, the terms of the PPA shall control. In events where a Customer purchases under a PPA and the PPA shall expire or terminate during the effective period of this Tariff, Customer shall revert to the applicable rate for each meter as determined by usage characteristics.
EFFECTIVE DATE:	For all electric meters read by LP&L on or after October 1, 2020

LARGE MUNICIPAL SERVICE

Rate 17

APPLICABLE:

To all municipal facilities supplied at secondary voltage for municipal purposes when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served and whose load exceeds 10 kW of demand in any month. Meters on this rate with loads that drop to 10 kW of demand or below will be eligible to be reassigned to Rate 21 (Small Municipal and School Service) only after 12 consecutive months where loads have not exceeded 10 kW of demand.

Not applicable to temporary, breakdown, standby, supplementary, resale or shared service, or to service for which a specific rate schedule is provided.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$49.67 per month per meter
Energy Charge:	$0.00066 per kWh
Demand Charge:	$5.24014 per kW

DEMAND:

Lubbock Power & Light will furnish at its expense the necessary metering equipment to measure the Customer's kW demand for the 15 or 30-minute period (as applicable per LP&L's metering technology selected) of greatest use during the month. In the absence of a demand meter, Customer's demand will be billed using the monthly kilowatt-hours and an average load factor of 41.30 percent. In no month, shall the billing demand be greater than the kW value determined by dividing the kWh sales for the billing period by 29 hours.

POWER COST RECOVERY FACTOR:

The charge per kilowatt and kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt and kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

POWER FACTOR: Applicable to Customers on this rate schedule with a peak demand of 200 kW or greater. At all times, Customer will maintain at Lubbock Power & Light's point of delivery, a power factor of not less than 85% lagging. Where Customer fails to maintain a power factor of at least 85% lagging at LP&L's point of delivery, Customer shall install suitable capacitors or other equipment necessary to raise the overall power factor at the point of delivery to a satisfactory value. Where such power factor correction equipment is used, Customer shall install a relay, switch or other regulating equipment for purposes of disconnecting or controlling the power factor correction equipment in order to prevent excessive voltage conditions on Lubbock Power & Light's system.

TERMS OF PAYMENT: Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.

CHARACTER OF SERVICE: AC. 60 hertz. Single-phase or three-phase, at one available standard voltage.

TERMS & CONDITIONS: Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.

EFFECTIVE DATE: For all electric meters read by LP&L on or after October 1, 2020

STREET LIGHTING SERVICE

Rate 18

APPLICABLE:	To municipal and State of Texas facilities for street lighting service where facilities of adequate capacity and suitable voltage are adjacent to the point of service.	
TERRITORY:	Lubbock Power & Light Service Territory	
RATE:	Service Availability Charge:	$0.00 per month per meter
	Energy Charge:	$0.04781 per kWh
DETERMINATION OF ENERGY USE:	Energy use will be determined by applying the total rated wattage of each fixture, including the ballast, to the number of hours of operation in each month. Street light burning time will be from one-half after sunset to one-half hour before sunrise using National Weather Service official sunrise & sunset times for Lubbock, Texas.	
POWER COST RECOVERY FACTOR:	The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".	
FRANCHISE FEE EQUIVALENT:	The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.	
TAX:	Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.	
TERMS OF PAYMENT:	Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.	

CHARACTER OF SERVICE:	AC. 60 hertz. Single-phase at available standard voltage at the point of service.
CONDITIONS OF SERVICE:	Customer will install, own, operate and maintain the street lighting system.
TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.
EFFECTIVE DATE:	October 1, 2020

GENERAL RELIGIOUS SERVICE

Rate 19

APPLICABLE: To service provided exclusively to the primary structure used for worship services of any church or religious association. This rate is not available for any other structure owned and operated by a church or religious association that is not primarily used for worship services. This rate is not applicable to temporary breakdown, standby, supplementary, or to service for which a specific rate schedule is provided.

TERRITORY: Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$16.77 per month per meter
Energy Charge:	$0.01847 per kWh

POWER COST RECOVERY FACTOR: The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

TERMS OF PAYMENT: Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.

CHARACTER OF SERVICE: AC. 60 hertz. Single-phase or three-phase, at one available standard voltage.

TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.
EFFECTIVE DATE:	For all electric meters read by LP&L on or after October 1, 2020

SMALL MUNICIPAL & SCHOOL SERVICE

Rate 21

APPLICABLE: To municipal facilities and public and private schools for electric service supplied at secondary voltage for municipal and school purposes when all service is supplied at one point of delivery and measured through one meter, where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served, and whose load does not exceed 10 kW of demand in any month. Single-phase motors not to exceed 10 horsepower, individual capacity, may be served under this rate. Meters in which the load exceeds 10 kW of demand in any month will be assigned to either Rate 15 (Large School Service) or Rate 17 (Large Municipal Service) as applicable and will not be eligible to be reassigned to Rate 21 until there have been 12 consecutive months where loads have not exceeded 10 kW of demand.

TERRITORY: Lubbock Power & Light Service Territory

RATE:

Service Availability Charge:	$12.98 per month per meter
Energy Charge:	$0.01639 per kWh

POWER COST RECOVERY FACTOR: The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT: The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX: Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

TERMS OF PAYMENT:	Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.
CHARACTER OF SERVICE:	AC. 60 hertz. Single-phase or three-phase, at one available standard voltage.
TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.
EFFECTIVE DATE:	For all electric meters read by LP&L on or after October 1, 2020

OPTIONAL TIME-OF-USE SERVICE RIDER - EXPERIMENTAL

Applicable to Rates 15, 16, 16P and 17

APPLICABLE: Available to Customers whose electric service is provided under rates 15, 16, 16P, and 17 and that can establish a lower demand between 1:00 p.m. and 7:00 p.m. weekdays during summer billing months. Lubbock Power & Light reserves the right to limit the availability or to discontinue this option, if in Lubbock Power & Light's judgment, system load or cost characteristics no longer warrant such option. This rider is not available to Customers who have installed distributed generation on the Customer side of the Lubbock Power & Light meter.

TERRITORY: Lubbock Power & Light Service Territory

NON-SUMMER MONTHS: For the billing months of October through May, the demand charge and the demand component of the Power Cost Recovery Factor (PCRF-D) shall be based on Customer's kW demand for the 15 or 30-minute period (as applicable per LP&L's metering technology selected) of greatest use during the month.

SUMMER MONTHS: For the billing months of June through September, the demand charge shall be based on Customer's kW demand for the 15 or 30-minute period (as applicable per LP&L's metering technology selected) of greatest use during the month. The demand component of the Power Cost Recovery Factor (PCRF-D) shall be based on Customer's kW demand for the 15 or 30-minute period (as applicable per LP&L's metering technology selected) of greatest use during the on-peak demand period for the month.

DEMAND: Lubbock Power & Light will furnish at its expense the necessary metering equipment to measure the Customer's kW demand for the 15 or 30-minute period (as applicable per LP&L's metering technology selected) of greatest use during the month. There will be no demand cap for Customers electing this rider.

ON-PEAK / OFF-PEAK DEMAND HOURS	Lubbock Power & Light shall consider the on-peak/off-peak billing periods as follows: Summer Months: On-Peak – Monday through Friday, 1:00 p.m. to 7:00 p.m., excluding official City of Lubbock recognized holidays Off-Peak – All other hours Non-Summer Months: On-Peak – All hours
EFFECTIVE DATE:	For all electric meters read by LP&L on or after October 1, 2020

GUARD LIGHT SERVICE

No new lights will be installed by Lubbock Power & Light. As a result, this rate is closed to new Customers.

APPLICABLE:

For night outdoor guard lighting service where facilities of adequate capacity and suitable voltage are adjacent to the point of service. **This rate is closed to new Customers and no new lights will be installed for existing Customers**.

Mercury vapor lamps are no longer being manufactured or imported. Once the inventory of mercury vapor lamps is depleted, Customers will be given the option of having the guard light removed or replaced with another type of light which may have a different rate.

TERRITORY:

Lubbock Power & Light Service Territory

RATE:

Each 150 Watt 15,000 lumen (nominal – actual rating may vary) high-pressure sodium fixture installed on an overhead bracket on a wood pole: $15.15 per month

Each 100 Watt 9,500 lumen (nominal – actual rating may vary) high-pressure sodium fixture installed on an overhead bracket on a wood pole: $10.29 per month

Each 150 Watt 7,000 lumen (nominal – actual rating may vary) mercury vapor fixture installed on an overhead bracket on a wood pole: $15.59 per month

Additional secondary line: For each additional 150 foot span of secondary line required beyond the first 150 feet: $3.30 per month.

DETERMINATION OF ENERGY USE:

15,000 lumen HPS fixture uses 56 kWh per month.
9,500 lumen HPS fixture uses 38 kWh per month.
7,000 lumen MV fixture uses 67 kWh per month.

POWER COST RECOVERY FACTOR:

The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt hour as provided in the current Lubbock Power & Light "Power Cost Recovery Factor".

FRANCHISE FEE EQUIVALENT:	The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.
TAX:	Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.
TERMS OF PAYMENT:	Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.
CHARACTER OF SERVICE:	AC. 60 hertz. Single-phase at available standard voltage at the point of service.
CONDITIONS OF SERVICE:	Lubbock Power & Light will own, operate, and maintain on Customer's premises the existing lights. Lights are photo-electrically controlled and mounted on a metal bracket on Lubbock Power & Light's service poles, a separate 30 foot wood pole, or on any suitable mounting device belonging to Customer.
TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.
EFFECTIVE DATE:	October 1, 2020

FLOOD LIGHT SERVICE

No new lights will be installed by Lubbock Power & Light. As a result, this rate is closed to new Customers.

APPLICABLE: For night outdoor flood light service where facilities of adequate capacity and suitable voltage are adjacent to the premises to be served. **This rate is closed to new Customers and no new lights will be installed for existing Customers**.

TERRITORY: Lubbock Power & Light Service Territory

RATE: The charge per month shall be the sum of Rate sections A+B+C+D:

RATE A:
First Light Charge Charge per light for the first light on each 30 foot wood pole with overhead service:

Lamp Wattage	Metal Halide	High Pressure Sodium
150	N/A	$22.35
175	$22.48	N/A
250	$24.11	$24.21
400	$25.08	$25.62
1,000	$38.38	$38.82

RATE B:
Additional Light Charge Additional charge per month for each additional light per pole:

Lamp Wattage	Metal Halide	High Pressure Sodium
150	N/A	$8.65
175	$8.77	N/A
250	$10.01	$10.11
400	$10.84	$11.31
1,000	$22.65	$23.02

RATE C:
Additional Pole Charge

Additional charge per month per pole:

Pole Height	Overhead Wood Pole	Underground Wood Pole	Overhead Steel Pole	Underground Steel Pole
30’	$0.00	$3.75	$6.27	$10.05
35’	$1.86	$5.61	$8.13	$11.90
40’	$3.95	$7.74	$10.24	$14.02
45’	$5.60	$9.39	$11.89	$15.67
50’	$7.40	$11.19	N/A	N/A

RATE D:
Additional Service Span Charge

For each additional 150 foot span of secondary line required beyond the first 150 feet: $2.95 per month.

DETERMINATION OF ENERGY USE:

Lamp Wattage	Metal Halide Lumen	Metal Halide kWh	High Pressure Sodium Lumen	High Pressure Sodium kWh
150	N/A	N/A	16,000	56
175	14,000	62	N/A	N/A
250	20,500	97	27,500	97
400	36,000	136	50,000	159
1,000	110,000	359	140,000	350

POWER COST RECOVERY FACTOR:

The charge per kilowatt-hour of the above rate shall be increased by the applicable recovery factor per kilowatt hour as provided in the current Lubbock Power & Light “Power Cost Recovery Factor”.

FRANCHISE FEE EQUIVALENT:

The charge of the above rate may be increased (i) by an amount no greater than the equivalent franchise fee established by the City Council of the City of Lubbock for any other electric utility; or (ii) by an amount equal to any franchise fee obligation applicable to Lubbock Power & Light as established by the City Council of the City of Lubbock.

TAX:

Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

TERMS OF PAYMENT:	Payment due on receipt. A late charge of 5% may be added to all bills not paid within 21 days after bill date. If the 21st day falls on a weekend or an official City of Lubbock recognized holiday, the late charge will not be applied until the next business day.
CHARACTER OF SERVICE:	AC. 60 hertz. Single-phase. 120 or 240 volts.
CONDITIONS OF SERVICE:	Lubbock Power & Light will own, operate, and maintain on Customer's premises the existing overhead flood lights. Lights are photo-electrically controlled and mounted on LP&L poles
TERMS & CONDITIONS:	Service supplied under this rate is subject to the terms and conditions set forth in LP&L's General Terms and Conditions of the Rate Schedule as approved by the City Council of the City of Lubbock and on file with the City Secretary of the City of Lubbock.
EFFECTIVE DATE:	October 1, 2020

MISCELLANEOUS SERVICE CHARGES

APPLICABLE:	The service charges listed below are applicable to all Customers served by Lubbock Power & Light and are in addition to any other charges made under Lubbock Power & Light's tariff for electric service.
TERRITORY:	Lubbock Power & Light Service Territory
RETURNED ITEM CHARGE:	$30.00 This charge is made when Customer's method of payment has been dishonored and returned to Lubbock Power & Light.
DISCONNECT/RECONNECT FEE:	$27.50 when disconnected or reconnected during business hours $43.50 when disconnected or reconnected after business hours $57.50 when disconnected or reconnected at the pole during business hours $75.00 when disconnected or reconnected at the pole after business hours This charge is made when Customer is disconnected because of a delinquent account or requests reconnection of electric service after having been disconnected because of a delinquent account.
TAMPERED SERVICE CHARGE:	$200.00 each occurrence plus expense for damages plus recovery of lost sales that are based on historical data or average use for similarly situated Customers. This charge is applied to any Customer who has tampered with the meter installed on the Customer's premises, or by any manner or means has prevented the total energy from being registered by the meter installed for such purposes.

METER TESTING CHARGE:

Upon the request of a Customer, LP&L will test the accuracy of the Customer's meter at no charge to the Customer. The test shall be made during LP&L's normal working hours and shall be scheduled to accommodate the Customer or the Customer's authorized representative, if the Customer desires to observe the test. The test should be made on the Customer's premises, but may, at LP&L's discretion, be made at LP&L's test laboratory. If the meter has been tested by LP&L at the Customer's request, and within a period of four years the Customer requests a new test, the electric utility shall make the test. However, if the subsequent test finds the meter to be within ANSI's accuracy standards, the electric utility may charge the Customer a $50.00 fee, which represents the cost of testing.

Following the completion of any requested test, LP&L shall promptly advise the Customer of the date of removal of the meter, the date of the test, the result of the test, and who made the test.

DUPLICATE BILL CHARGE:

$5.00 for each duplicate bill.

This charge is made when a Customer requests a copy of a previously generated bill. Copies of bills (24 month history) can be obtained free of charge at www.cityoflubbockutilities.com.

MISCELLANEOUS CHARGES:

At cost. This charge may be made for miscellaneous and non-routine services performed at the request of Customer but not covered specifically by any rate or fee. The charges will be the reasonable costs incurred for performing such services including but not limited to labor, materials, transportation, miscellaneous expenses and all applicable overheads for the service provided.

PULSE METERING EQUIPMENT INSTALLATION AND REPLACEMENT CHARGE:

At cost. These charges may be made when Customer requests access to pulses from the revenue meter. The charges will be the reasonable costs incurred for providing such service including but not limited to labor, materials, transportation, miscellaneous expenses and all applicable overheads for the service provided.

TAX:

Billings under this schedule may be increased by an amount equal to the sum of the applicable federal, state and local taxes, fees, or charges levied, assessed and/or payable by Lubbock Power & Light for utility services rendered, or on the right or privilege or rendering the service, or on any object or event incidental to the rendition of the service.

ALTERNATIVE METER CHARGE: Residential Customers who choose non-standard meters (non-communicating meters) are required to pay the incremental costs to provide the non-standard service, which include costs to manually read meters and perform other services through non-standard processes that would otherwise not be required. Installation cost at each premise - to change-out a standard meter for a non-standard meter - shall be $127.84 and shall be paid prior to installation plus a monthly charge of $24.56 charged on the monthly invoice.

EFFECTIVE DATE: October 1, 2020

POWER COST RECOVERY FACTOR:

The Power Cost Recovery Factor (PCRF), provides for the recovery of all power costs incurred by LP&L in serving system demand and energy requirements. The PCRF shall be reviewed and may be adjusted by the Director of Electric Utilities at a minimum of two times per year, once during the non-summer season of October through May and once during the summer season of June through September. The PCRF will have a demand (PCRF-D) and energy (PCRF-E) component or rate. The PCRF rates shall be established with the intention of matching PCRF revenues with actual power costs over the course of a fiscal year, giving consideration to seasonal fluctuations in load and in power prices. The PCRF may be adjusted more frequently if any over or under recovery exceeds the maximum variance as defined below.

For a particular customer class, the PCRF-E shall be adjusted by the following voltage level factors:
Primary Voltage: 1.0409
Secondary Voltage: 1.06340

On a monthly basis, LP&L shall track actual revenues collected from the PCRF and compare these revenues to actual total power costs incurred. The cumulative balance representing the difference between total PCRF revenues collected less total power costs incurred over the period shall be reported to the LP&L Board on a monthly basis.

A PCRF balancing account will be established with a cap equal to five percent of total annual budgeted or forecasted power costs to manage the monthly over/under collection of, or differences in, the monthly PCRF revenues and monthly power costs. If at any time, the reported cumulative balance of the difference between total PCRF revenues collected and power costs is greater than the PCRF balancing account cap, an adjustment may be made to the PCRF rates with the intention of refunding the over recovery amount. In addition, if at any time the reported cumulative balance of the difference between total PCRF revenues collected and power costs is approaching or less than zero, an adjustment may be made to the PCRF rates with the intention of replenishing the PCRF stabilization fund.

All mid-season adjustments to the PCRF shall be approved by the Electric Utility Board.

List of Terms and Acronyms

AMI	Advanced Metering Infrastructure
Billing System	Includes AMI, CIS, MDMS and MWFM systems
CCN	Certificate of Convenience and Necessity
CIS	Customer Information System
City of Lubbock Utilities	Customer Service Department that works on behalf of the LP&L, Solid Waste, Storm Water, and Water/Wastewater Utilities
COS	Cost of Service Study
CPR	Cardiopulmonary Resuscitation
EOC	Emergency Operations Center
EPS	ERCOT-Polled Settlement
ERCOT	Electric Reliability Council of Texas
FERC	Federal Energy Regulatory Commission
FF&E	Furniture Fixtures and Equipment
FFE	Franchise Fee Equivalent
FTE	Full Time Equivalent
FY	Fiscal Year
GIS	Geographic Information Systems
GT	Gas Turbine
IM	Integrated Marketplace (Southwest Power Pool)
IVR	Interactive Voice Response
kV	Kilovolt
kW	Kilowatt
kWh	Kilowatt-Hour
LED	Light-emitting diode
LMP	Locational Marginal Price
LP&L	Lubbock Power & Light
MDMS	Meter Data Management System
MVA	Mega Volt Ampere
MW	Megawatt
MWFM	Mobile Work Force Management
NERC	North American Electric Reliability Corporation
NOIE	Non Opt-In Entity
Note Program	Direct Purchase Revolving Note Program
OMS	Outage Management System
Opt-In	Opt-In to the ERCOT Competitive Retail Electric Market
Other City Utilities	Solid Waste, Storm Water and Water/Wastewater Utilities
PCRF	Power Cost Recovery Factor
PILOT	Payment in Lieu of Taxes
POLR	Provider of Last Resort
PPRF	Purchased Power Recovery Factor
PUC	Public Utility Commission
REP	Retail Electric Provider
RTO	Regional Transmission Organization
SCADA	Supervisory Control and Data Acquisition
SPP	Southwest Power Pool
SPS	Southwestern Public Service Company
T&D	Transmission and Distribution
TCOS	Transmission Cost of Service
TTU	Texas Tech University

Lubbock Power & Light

The power is yours.