



# Operations Report

Eddie Dauterive | Chief Operations Officer

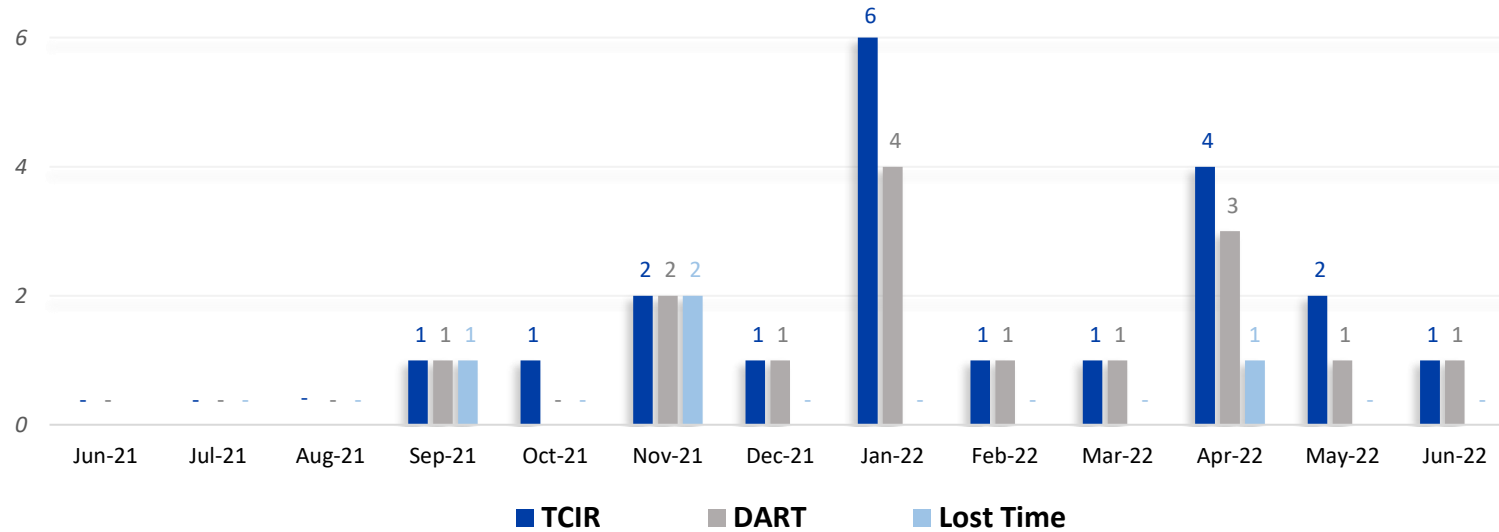
July 15, 2022

# Safety & Technical Training

## Personal Incidents

### Reportable Injuries, Days Away, and Lost Time Incidents

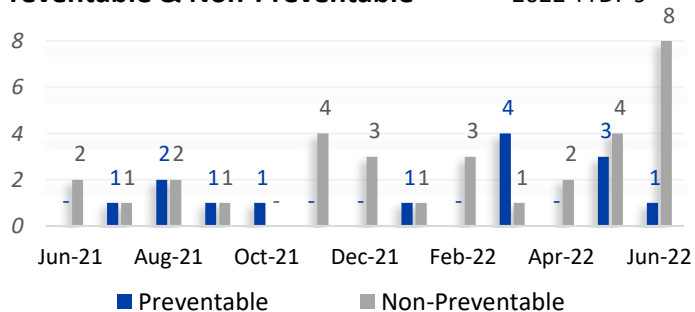
2021 YTD: DART Days - 186, Lost Time Days - 100  
 2022 YTD: DART Days - 128, Lost Time Days - 7



## Vehicle Incidents

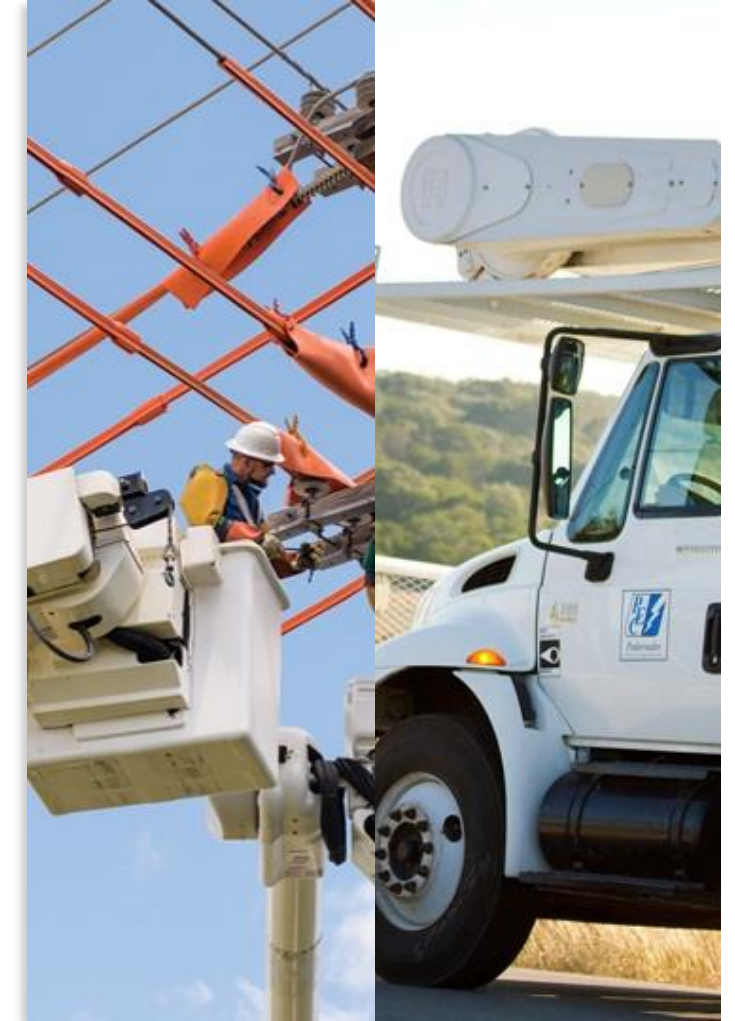
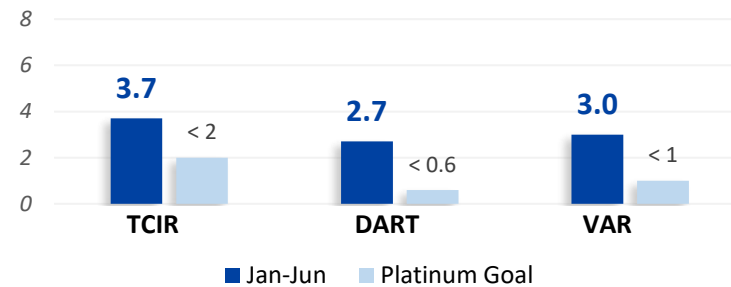
### Preventable & Non-Preventable

Preventable:  
 2021 YTD: 9  
 2022 YTD: 9



## KPI Progression

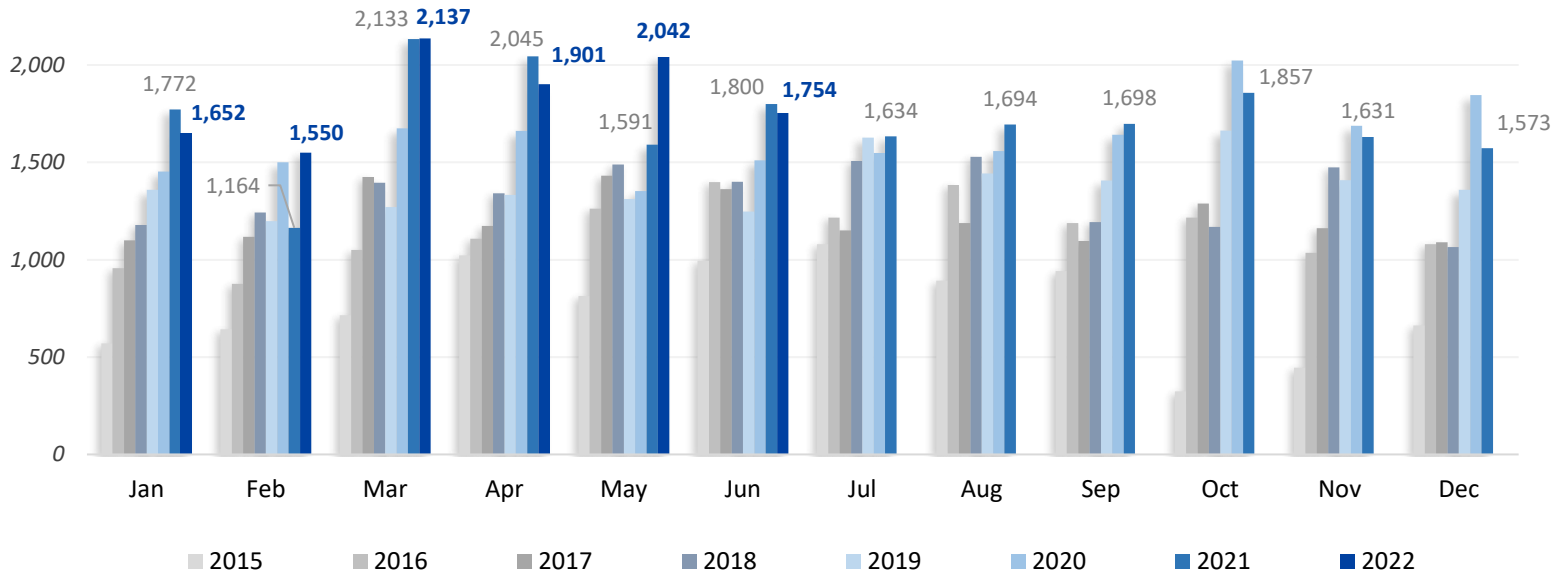
### 2022 Period One



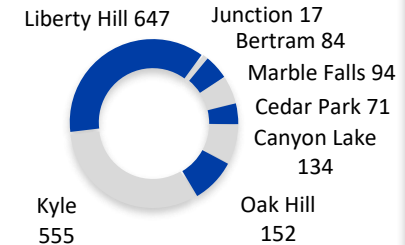
# System Growth

## Line Extensions Completed

2019: 16,640    2020: 19,458    2021: 20,592    2022 YTD: 11,036



## Line Extensions Per District (1,754)

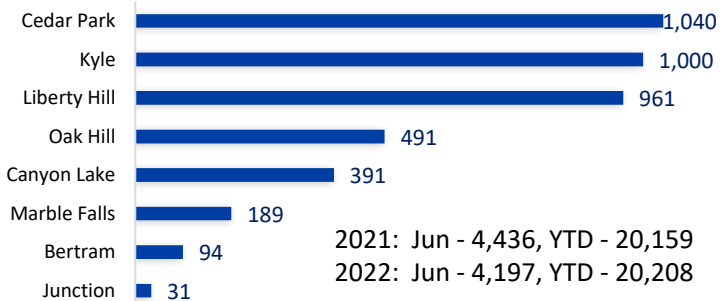


## Miles of Distribution Line:

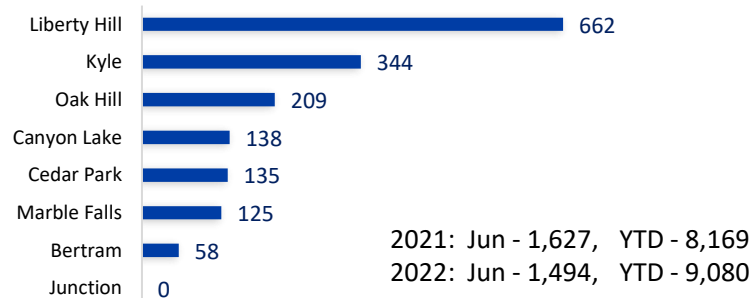
Underground: 6,571 (27%)  
 Overhead: 17,537 (73%)  
 Total: 24,108



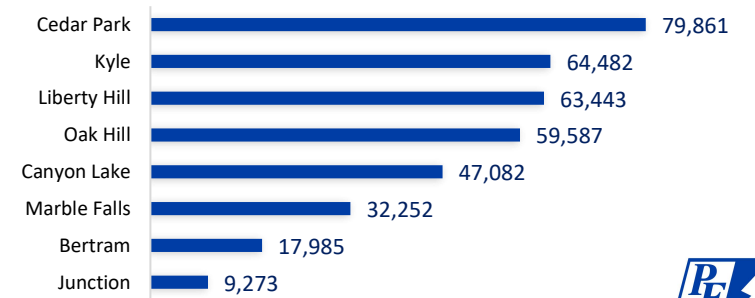
## Member Applications (4,197)



## Meter Growth (1,494)

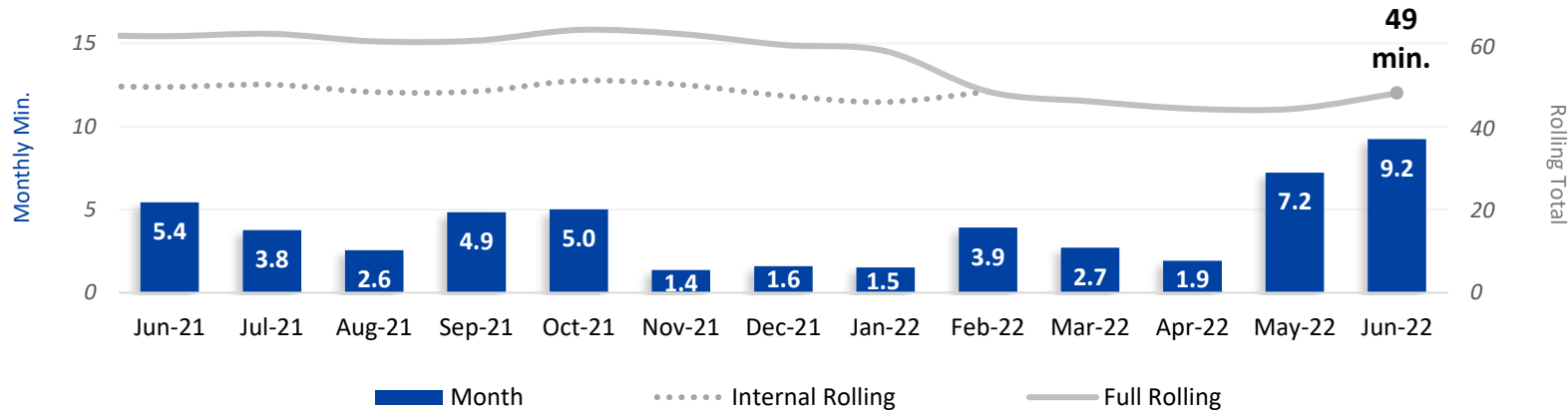


## Meter Totals (373,796)

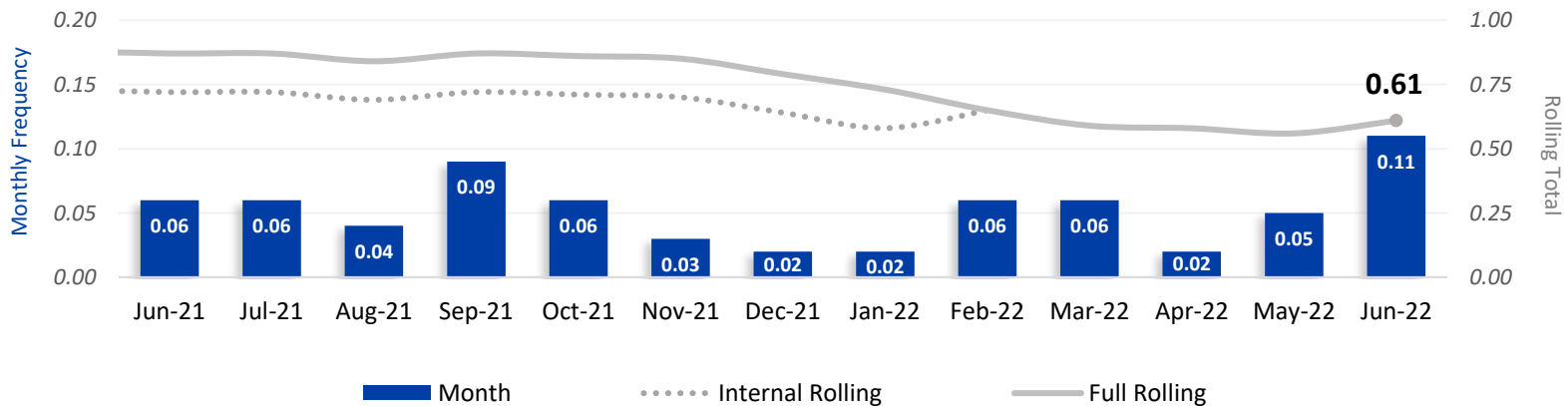


# Reliability

## System Average Interruption Duration Index (SAIDI)



## System Average Interruption Frequency Index (SAIFI)



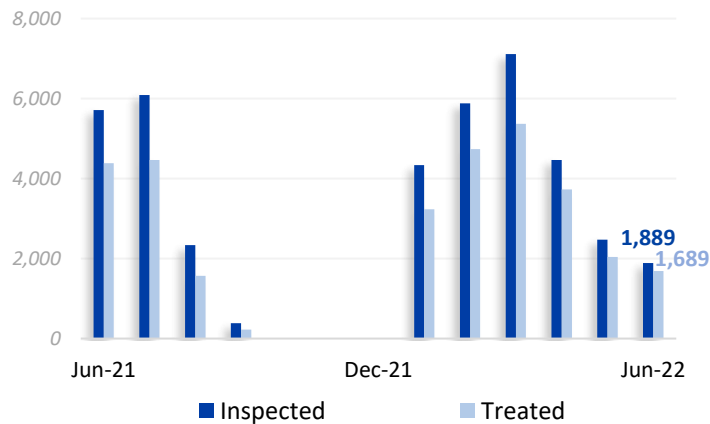


# System Maintenance

## Pole Testing & Treatment (PTT)

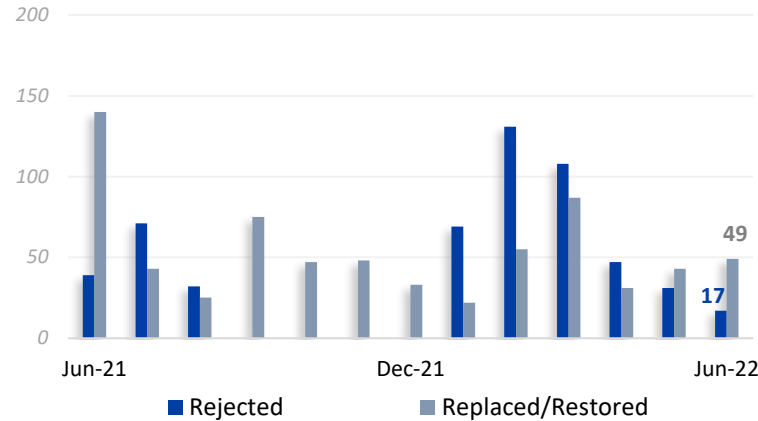
### Poles Inspected & Treated

2021 YTD: Inspections - 30,676, Treated - 24,250  
 2022 YTD: Inspections - 26,152, Treated - 20,805



### Poles Rejected & Replaced/Restored

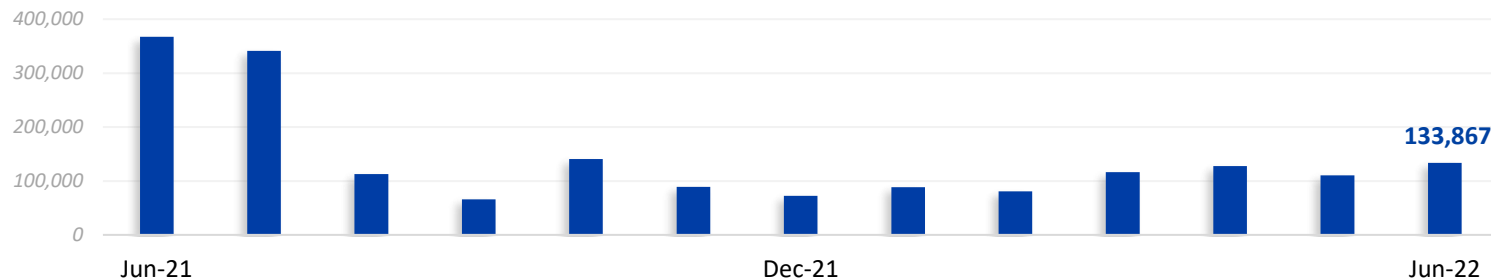
2021 YTD: Rejected - 523, Restored - 562  
 2022 YTD: Rejected - 403, Restored - 287



## Vegetation Management

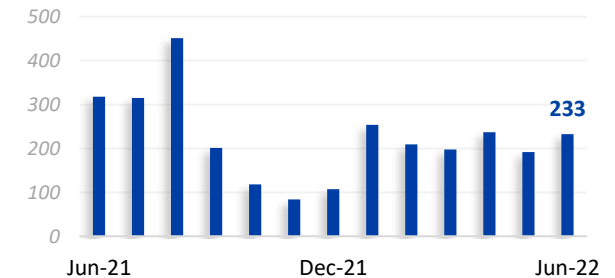
### Vegetation Pruned (Ft.)

2021 YTD: 2,022,225 ft. Jun URD Clearings: 318  
 2022 YTD: ft. May Locations Worked: 1,343



## URD Pad Restorations

2021 YTD: 2,363  
 2022 YTD: 1,323

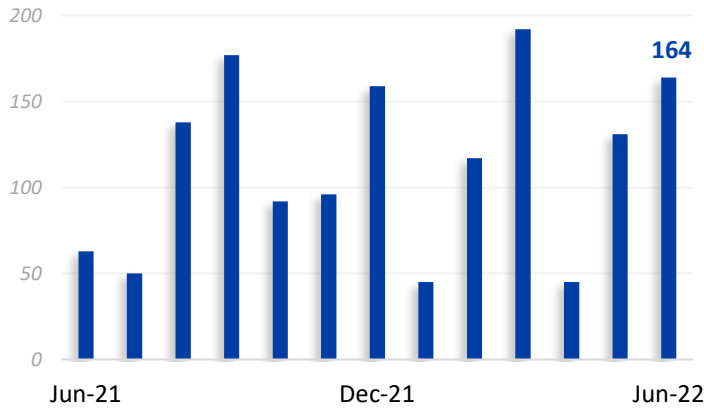


# System Maintenance

## Technical Services

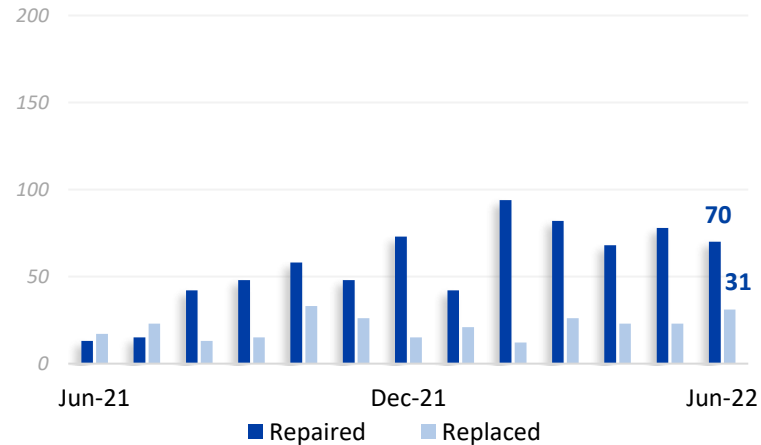
### Equipment Inspections

2021 YTD: 716  
2022 YTD: 692



### Equipment Repaired & Replaced

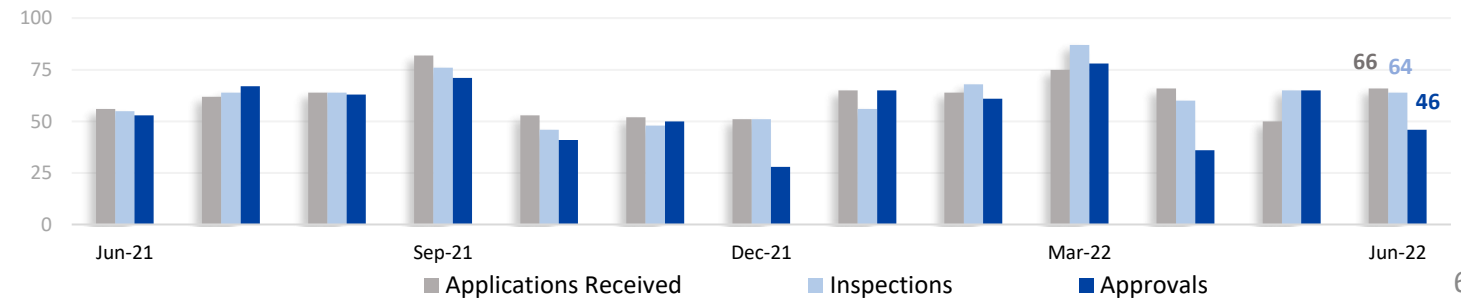
2021 YTD: Repaired - 346, Replaced - 215  
2022 YTD: Repaired - 385, Replaced - 136



## Pole Contacts

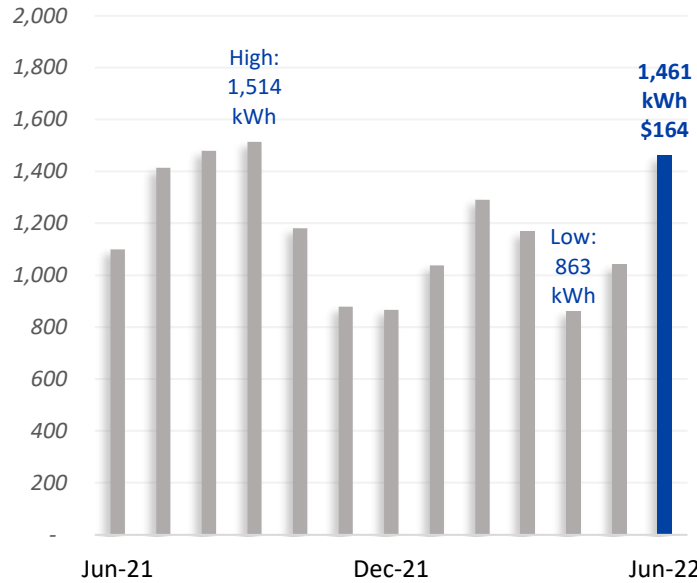
### Applications Received & Permits Issued

2021 YTD: Received - 355, Inspected - 388, Approved - 380  
2022 YTD: Received - 386, Inspected - 400, Approved - 351



# Member Relations

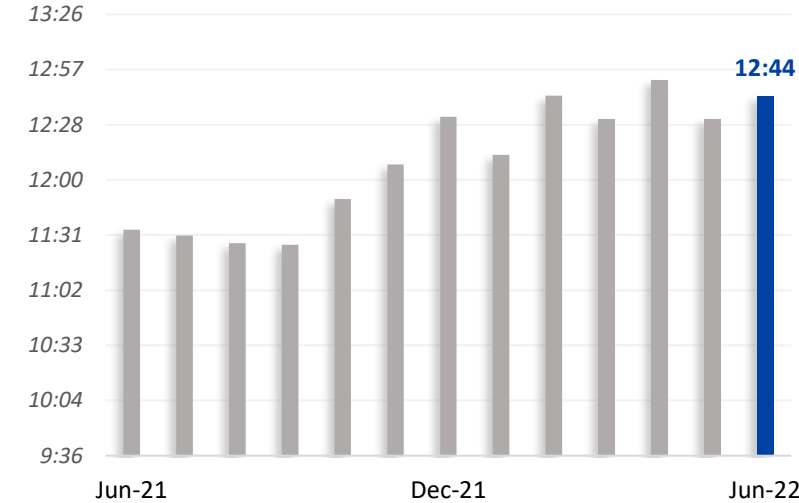
## Average Residential Usage



## Member Contacts

### Average Handle Time

Jun Phone Contacts: 28,058  
Jun Office Contacts: 5,451

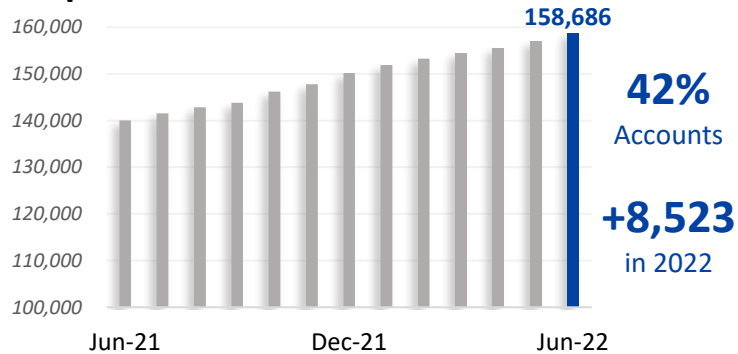


## Contact Types

2021: 419,277 Contacts

Main Contact Types	Jun. Totals	
Service Request	11,789	33%
Payment	6,322	18%
Billing Inquiry	4,898	14%
Payment Arrangement	2,045	6%
Account Update	1,793	5%
Autopay Deposit Waiver	1,411	4%

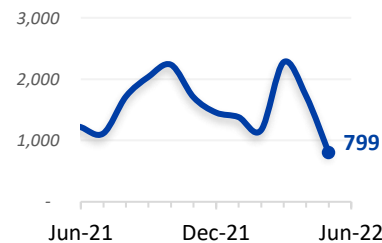
## Paperless Enrollments



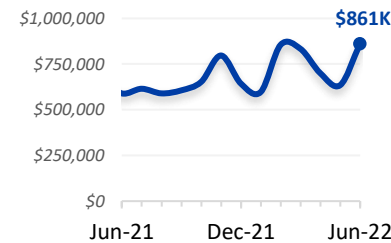
## Collections

16 days with no collection activity due to high temp.

### Remote Disconnects

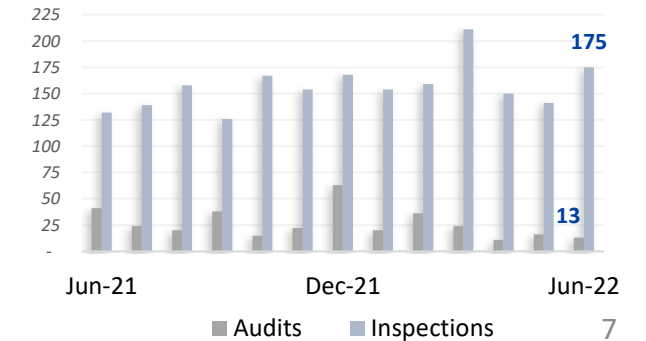


### Aged Balances



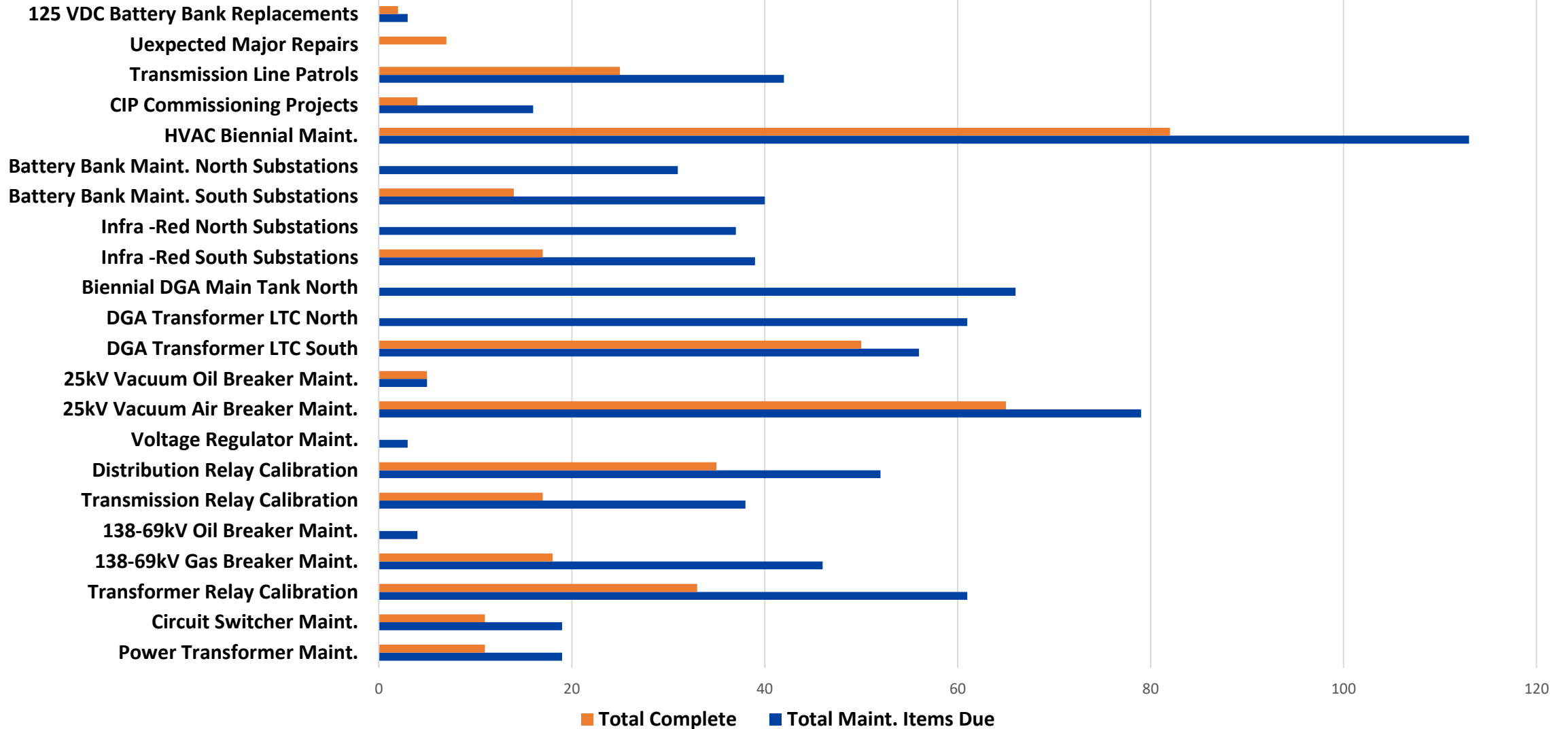
## Energy Services

2021 YTD: Audits - 180, Insp. - 716  
2022 YTD: Audits - 120, Insp. - 990



# Substation & Transmission Maintenance

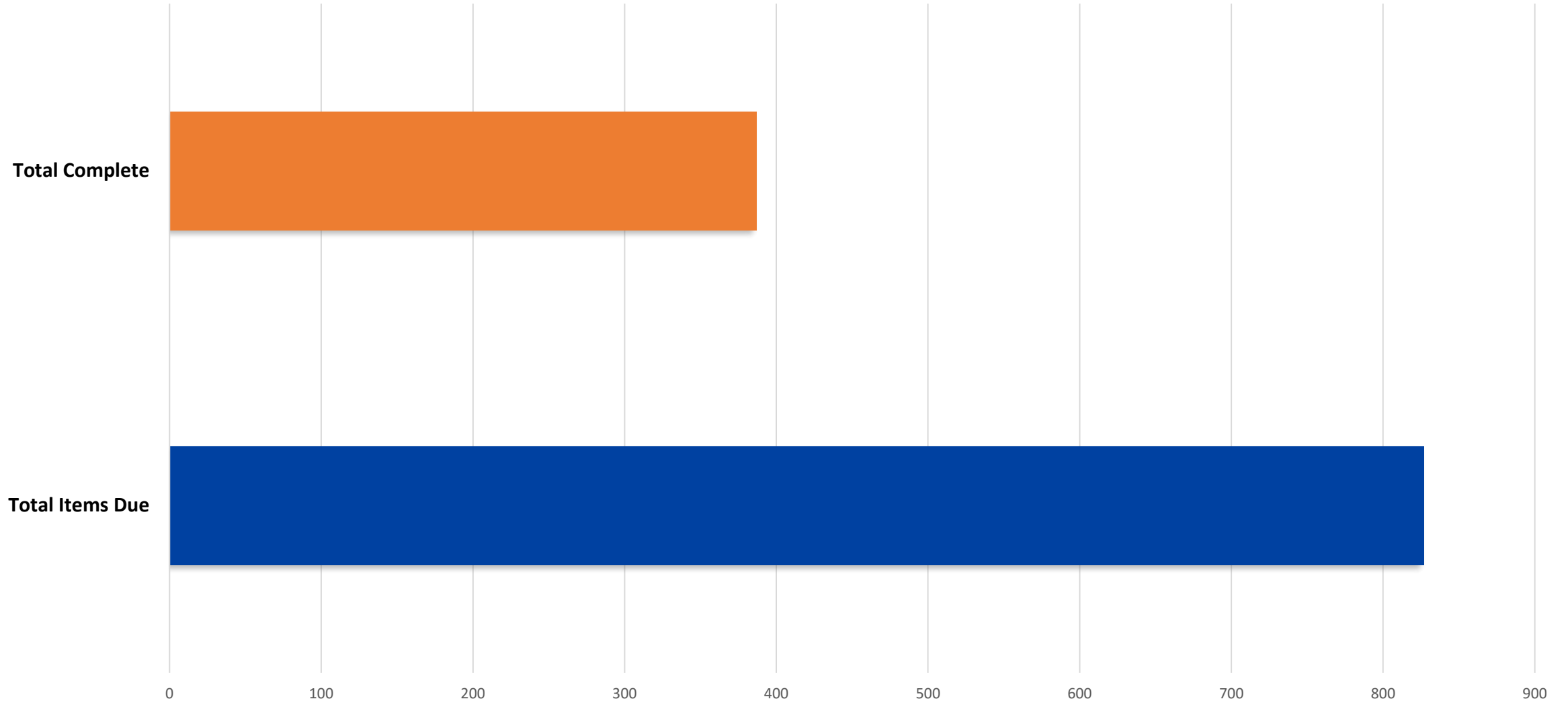
## 2022 Itemized Maintenance By Equipment





# 2022 Substation & Transmission Maintenance

Overall Status Year-to-Date



# Substation Engineering Projects

## Overall Status

Project	Project Phase	Description	Completion Date	Percent Complete
<b>Whitestone to Blockhouse Remote Ends</b>	Construction	Upgrade line protection relay panels at Whitestone and Blockhouse	May 2022	100%
<b>Gabriel T4 Transformer Relay Panel Replacement</b>	Construction	Upgrade Gabriel T4 transformer panel from electromechanical to digital relays	May 2022	100%
<b>Copperas Cove T1 Total Breaker Addition</b>	Engineering	Add total breaker to T1 transformer for reliability	Oct 2022	62%
<b>Kyle T1 Upgrade</b>	Engineering	Upgrade Kyle T1 transformer	Nov 2022	62%
<b>138 kV Breaker Replacements</b>	Engineering	Replace four end-of-life oil circuit breakers with SF6 breakers at Sattler and Cranes Mill	Dec 2022	52%
<b>Substation Satellite Clock Installations</b>	Construction	Install satellite clocks at substation for time synchronization to relays	Jan 2023	75%
<b>Buttercup Bus Upgrade</b>	Engineering	Upgrade bus to double-bus double-breaker	Apr 2023	61%
<b>Seward Junction T3 Addition</b>	Engineering	Add third power transformer at Seward Junction	Jun 2023	22%
<b>Lehigh T4 Addition</b>	Engineering	Add third power transformer at Lehigh	Jun 2023	16%
<b>Burnet T1 Upgrade</b>	Engineering	Upgrade Burnet T1 transformer	Aug 2023	6%
<b>Hero Way Substation</b>	Engineering	Construct new substation	Sep 2023	33%
<b>Mobile Substation Upgrades</b>	Engineering	Upgrade circuit switchers and relay protection on three mobile substations	Oct 2023	34%
<b>Junction Substation Upgrade</b>	Engineering	Upgrade Junction T1 transformer and add line breakers (AEP)	Oct 2023	48%
<b>Marshall Ford - Trading Post - Cedar Valley Remote Ends</b>	Engineering	Upgrade line protection relay panels at Marshall Ford, Trading Post, and Cedar Valley	May 2024	40%

# Planning Engineering Projects

## Overall Status

Project	Completion Date	Percent Complete
Load Projections Study	Jan 2022	100%
UFLS Study	May 2022	100%
4CP Study	May 2022	100%
Summer Contingency	Jun 2022	95%
Regulator Settings	Jun 2022	95%
Capacitor Settings	Jul 2022	85%
Antler Battery Study	Aug 2022	50%
CIP Study	Aug 2022	5%
Mock UFLS Study	Nov 2022	0%
Winter Contingency	De 2022	0%
20 Year Plan	Jan 2023	5%
2 Year System Protection Coordination Review	Jan 2024	25%

# Transmission Projects

## Projects Completed:

- **Whitestone - Blockhouse – Leander** line upgrade (*Cedar Park*):
  - 5.25 miles, rebuild existing 138 kV line to 440 MVA capacity.
  - Completed and energized on June 30, 2022.

## Projects in Construction:

- None

## Projects in Engineering:

- **Marshall Ford to Trading Post to Cedar Valley to Friendship to Rutherford** (*Oak Hill*):
  - 15.41 mi., analysis shows a need to replace structures to meet current NESC requirements.
  - Marshall Ford to Trading Post - Construction contract awarded, to begins Sep. 2022.
- **Dripping Springs to Rutherford Relocation** (*Oak Hill*):
  - On hold pending direction from developer and resolution of complaint filed at PUCT.



# Transmission Projects

## Projects in Engineering *(continued)*:

- **Lago Vista to Nameless to Leander Transmission Overhaul** (*Cedar Park and Liberty Hill*):
  - Coordinating with Substation Design for cut-in to Hero Way Substation.
  - Structural analysis confirmed need to upgrade to meet NESC District loads.
- **Sattler to Fischer** (*Canyon Lake*):
  - Raise crossing over Canyon Dam discharge channel.
  - U.S. Army Corps of Engineers granted extension of permit for existing facilities through Jan. 2023.
  - Material and poles ordered.
- **Miller Creek to Henly** (*Oak Hill*):
  - Respacing shield wire and conductor to reduce outage vulnerability during extreme weather.
  - Material and poles ordered.
- **McCarty Lane to Hunter** (*Kyle*):
  - Rebuild of single circuit section.
  - Railroad signal mitigation study – ongoing.
  - Material and poles ordered.





# AMI Distribution

- Junction exchanges for TWACs meter upgrades are complete.
- Exchanges in the Eastern territory remain on hold due supply shortages:
  - Estimating receipt of additional residential 2S AMI meters in early 4<sup>th</sup> quarter, 2022.
  - Closely monitoring the current inventory with supply available through Dec. 2022 to cover new growth and service repairs.
- Now moving forward with specialty meter exchanges (polyphase AMI) which are not impacted by the 2S AMI meter shortage:
  - Polyphase meters are for commercial and industrial locations, 2S AMI meters are for residential locations.
  - There are approx. 3,500 polyphase meters scheduled to be exchanged across the Eastern territory through July 2022.

## Western Territory - TWACs Upgrades

- Junction Exchanges: 100%
- Meters exchanged: 6,887
- Letters & Emails: 6,633
- Member Complaints: 8

## Eastern Territory - 2S AMI Exchanges

- Liberty Hill District: 100%
- Cedar Park: 40%
- Meters Exchanged: 121,000
- Letters & Emails: 166,000
- Member Opt-Outs: 54

## Specialty AMI Exchanges

- Liberty Hill: 100%
- Junction: 100%
- Kyle: 100%
- Oak Hill: 100%
- Marble Falls: 95%
- Canyon Lake: 67%
- Bertram: 159 meters
- Cedar Park: 259 meters



# Cooperative Lighting Services

PEC began its Lighting Services contract with NextEra Energy Solutions in Nov. 2021.

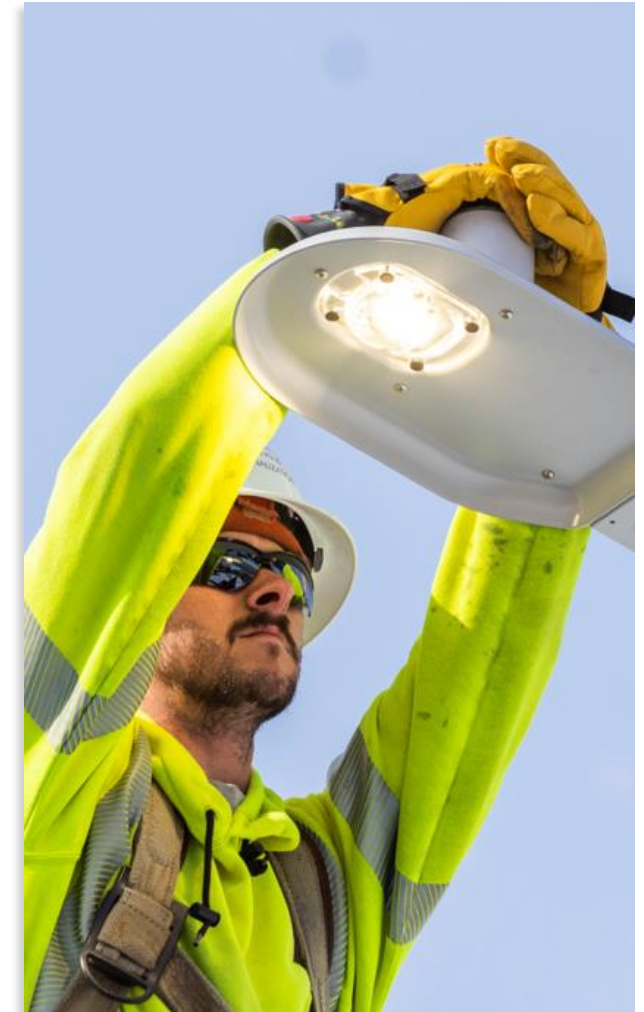
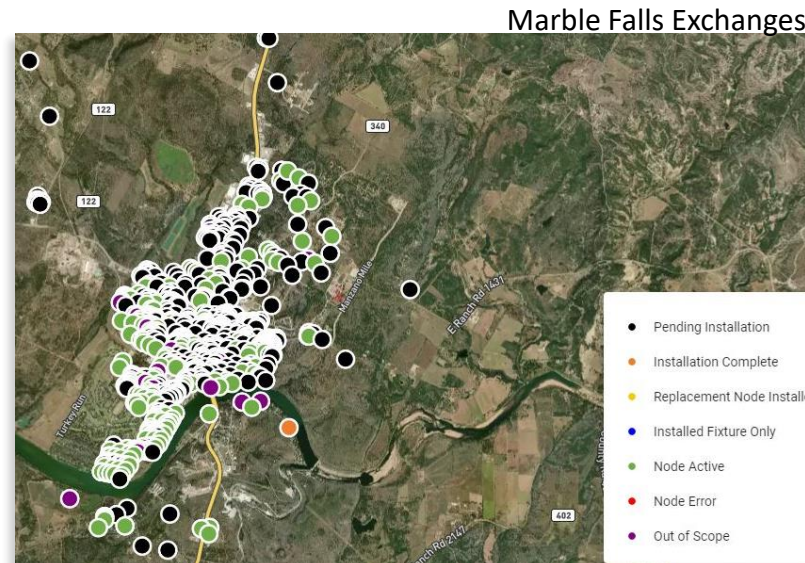
Approximately 30,000 cooperative-owned street and roadway lights in the Eastern territory will be replaced to new, energy-efficient, LED lighting.

The lighting services project additionally includes:

- Smart controls providing enhanced outage detection and advanced system management.
- Converting all PEC owned lights into Dark Sky friendly fixtures.
- Complete audit of all PEC owned lights.
- Updated PEC mapping system.

Exchange progression through June:

- Lights Audited : 23,440
- Lights Replaced: 10,153



# Facilities

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## **Cedar Park Access**

The concrete driveway has been poured. IT and utilities are 75% complete. The fence and electrical is complete. Pending receipt of IT and security equipment to complete those installations.

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## **Dripping Springs Storage Yard**

The RFP for yard renovations has been completed and the project has begun.

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## **Junction**

Finalizing design and obtaining bids for yard renovations, pending substation design.

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## **Kyle**

Remodeling of the Planning area is complete, and staff have moved into the new space. This project is complete.

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## **Leander Development**

Building construction is in-progress and on schedule.

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## **Marble Falls**

Finalizing design and obtaining bids for yard renovations.



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