



# Operations Report

Eddie Dauterive | Chief Operations Officer

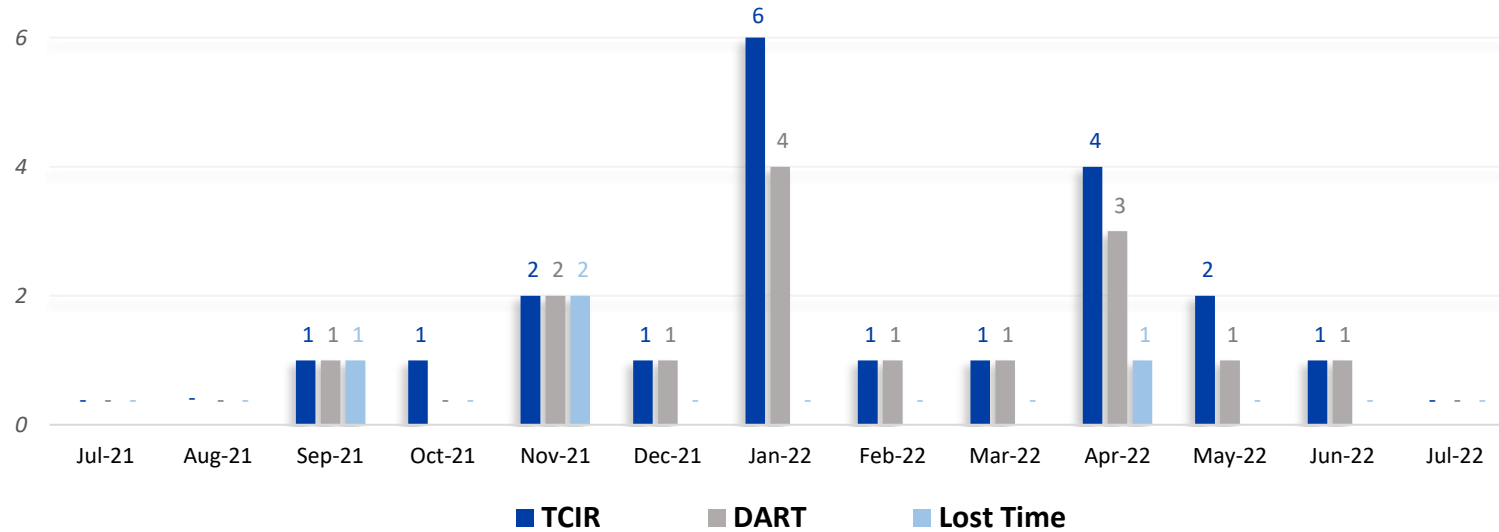
August 19, 2022

# Safety & Technical Training

## Personal Incidents

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

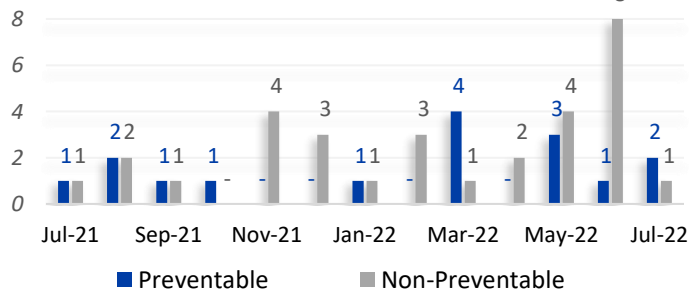
2021 YTD: DART Days - 230, Lost Time Days - 118  
 2022 YTD: DART Days - 128, Lost Time Days - 10



## Vehicle Incidents

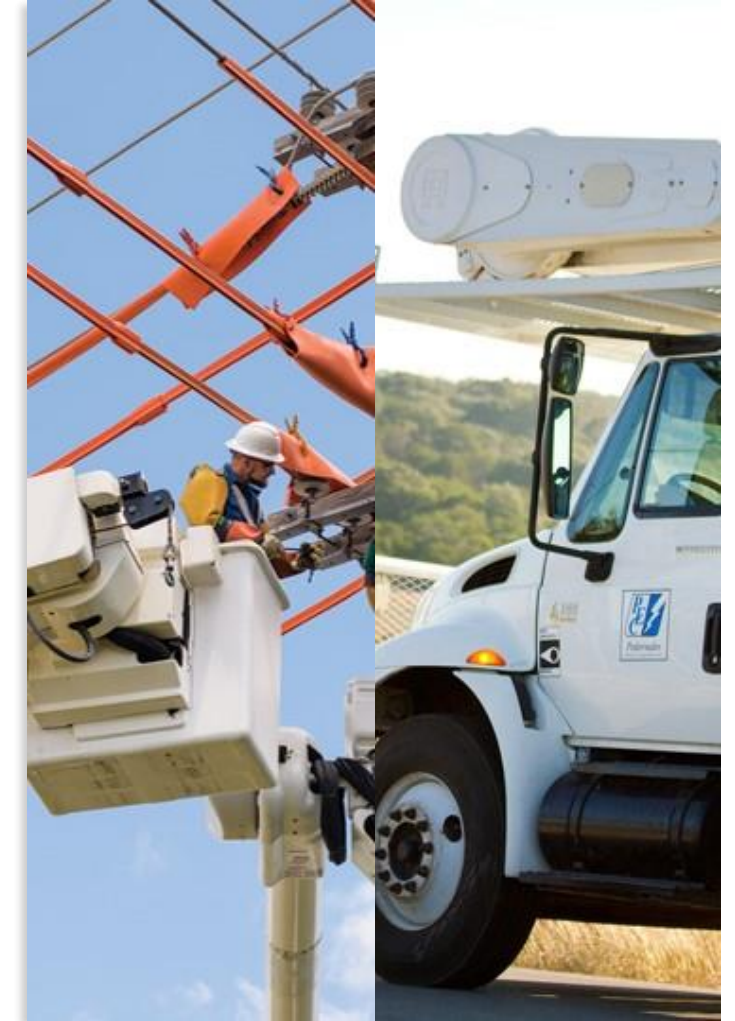
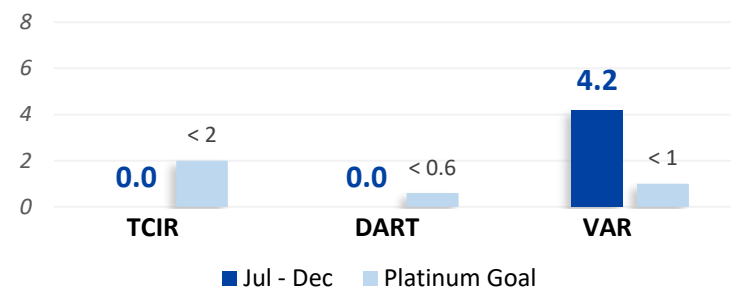
### Preventable & Non-Preventable

Preventable:  
 2021 YTD:  
 2022 YTD: 8



## KPI Progression

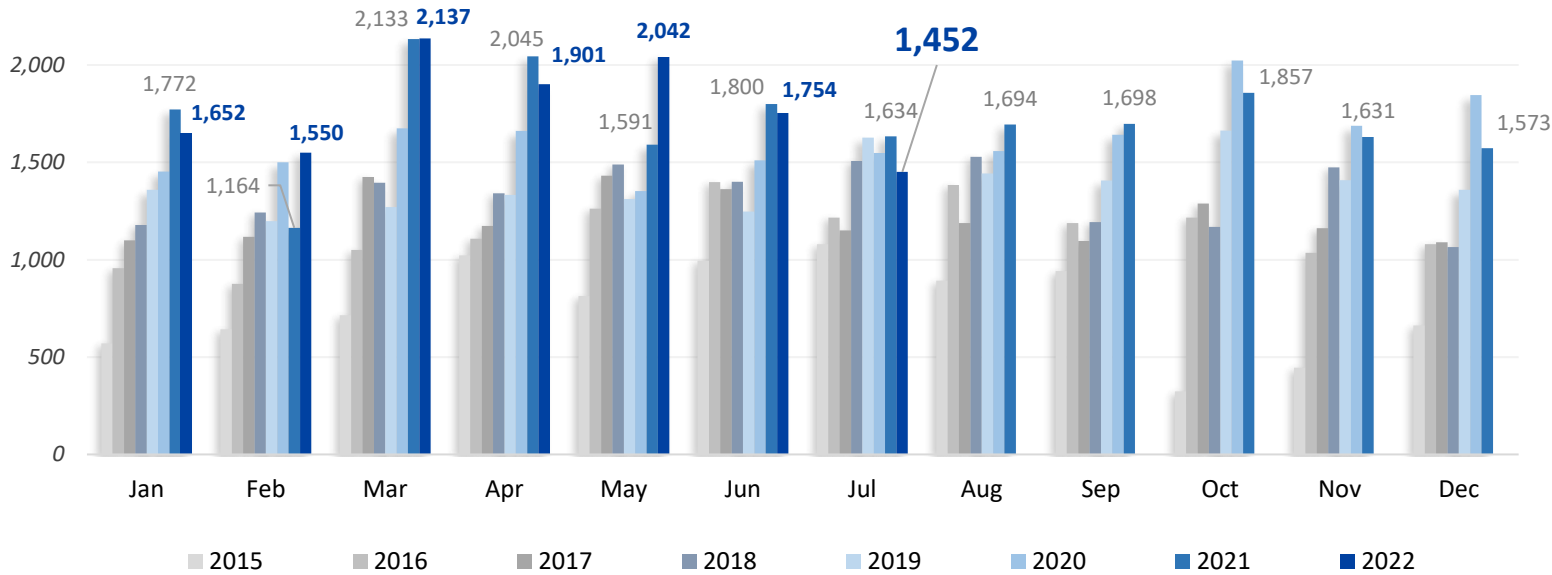
### 2022 Period Two



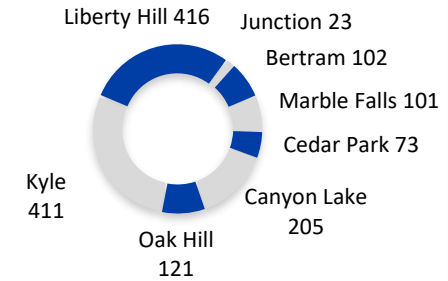
# System Growth

## Line Extensions Completed

2019: 16,640    2020: 19,458    2021: 20,592    2022 YTD: 12,488



## Line Extensions Per District (1,452)

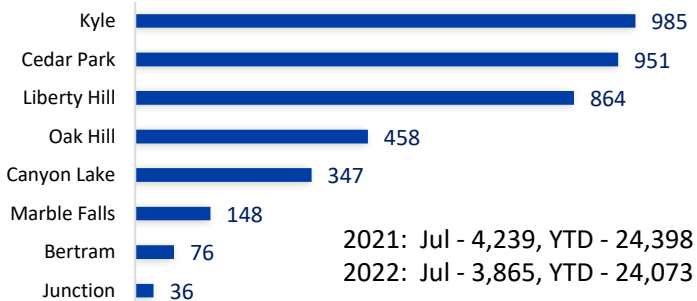


## Miles of Distribution Line:

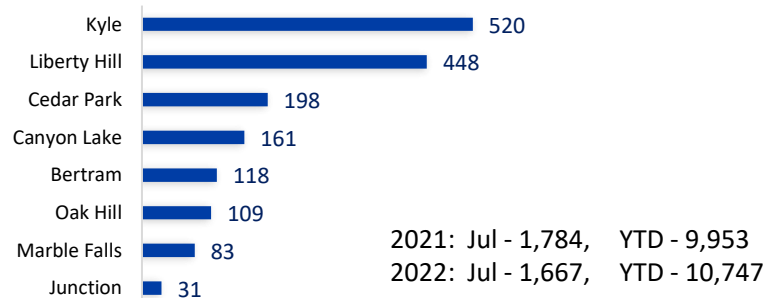
Underground: 6,608 (27%)  
 Overhead: 17,540 (73%)  
 Total: 24,148



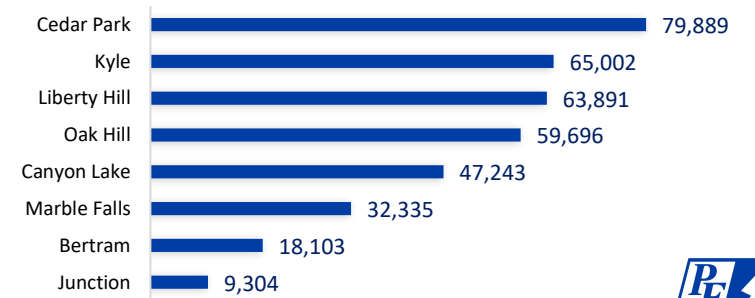
## Member Applications (3,865)



## Meter Growth (1,667)

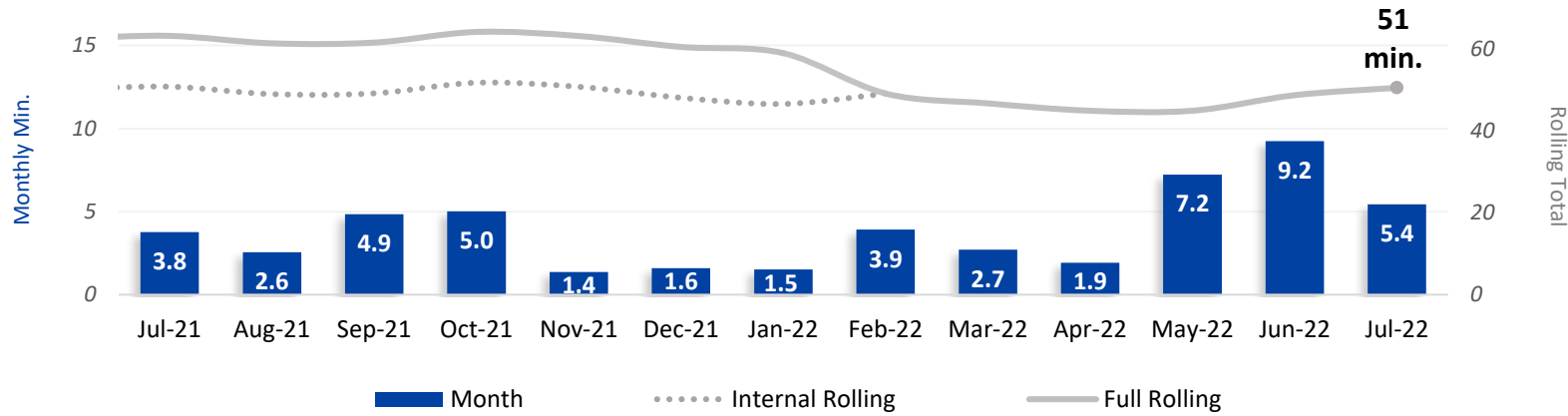


## Meter Totals (375,463)

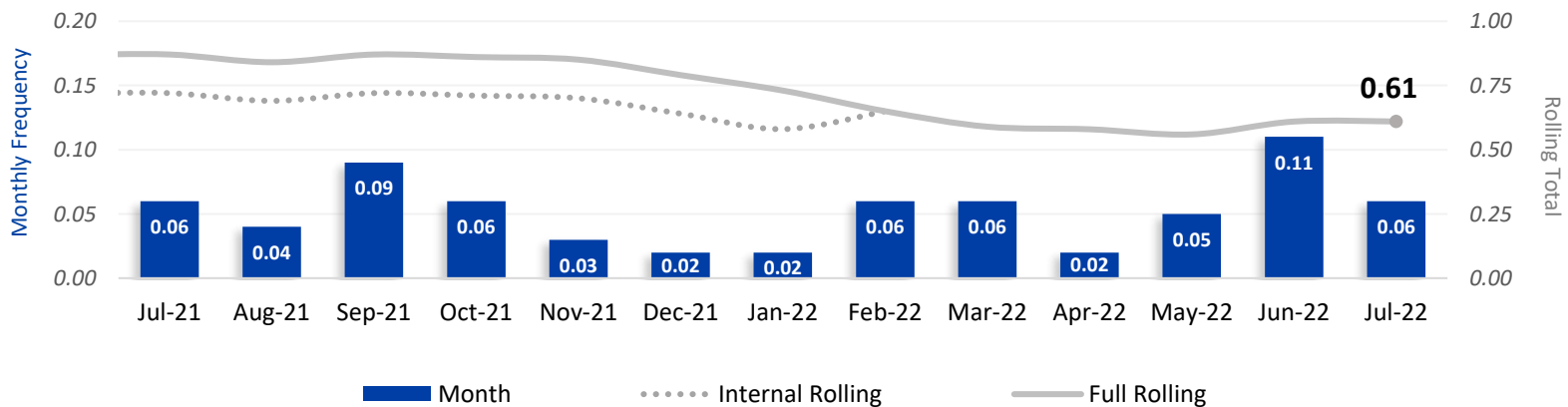


# Reliability

## System Average Interruption Duration Index (SAIDI)



## System Average Interruption Frequency Index (SAIFI)

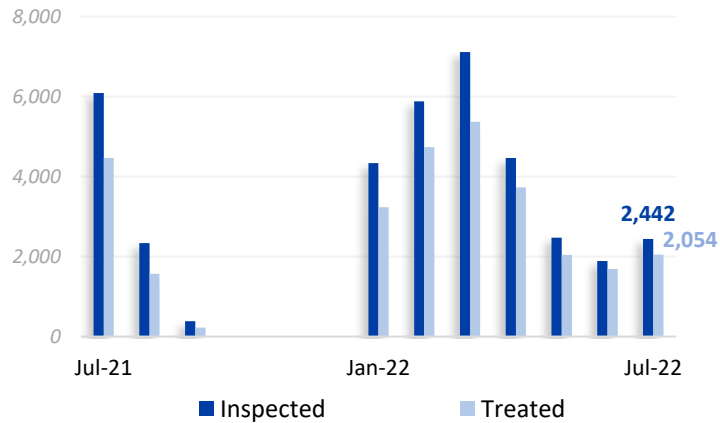


# Distribution Maintenance

## Pole Testing & Treatment (PTT)

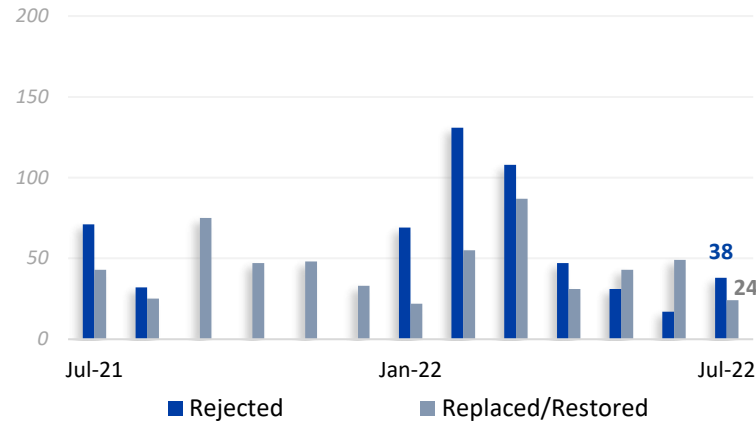
### Poles Inspected & Treated

2021 YTD: Inspections - 36,764, Treated - 28,717  
 2022 YTD: Inspections - 28,594, Treated - 22,859



### Poles Rejected & Replaced/Restored

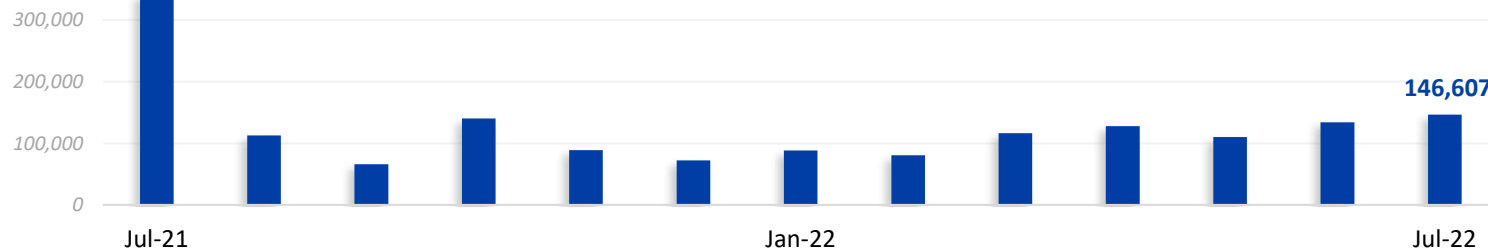
2021 YTD: Rejected - 594, Restored - 605  
 2022 YTD: Rejected - 441, Restored - 311



## Vegetation Management

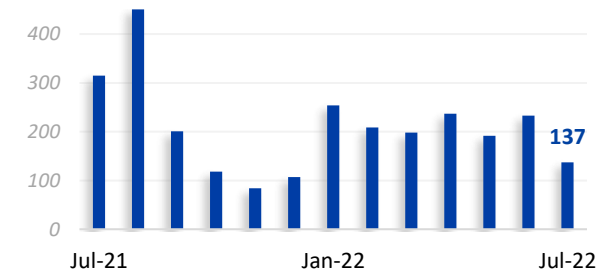
### Vegetation Pruned (Ft.)

2021 YTD: 2,363,557 ft. Jul. Locations Worked: 1,114 Jul. Poles Cleared: 475  
 2022 YTD: 804,246 ft. Jul. URD Clearings: 345



## URD Pad Restorations

2021 YTD: 605  
 2022 YTD: 311

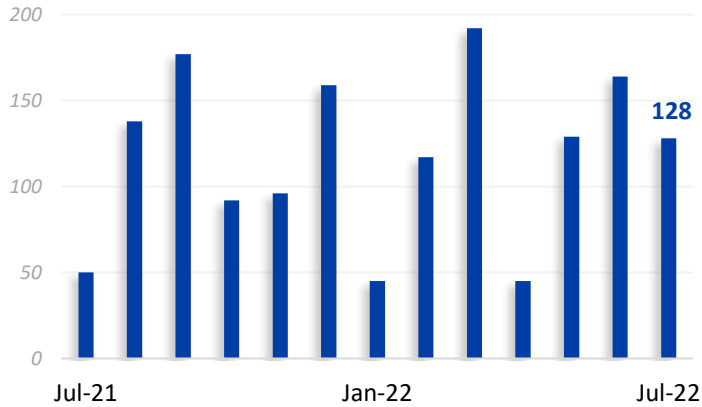


# Distribution Maintenance

## Technical Services

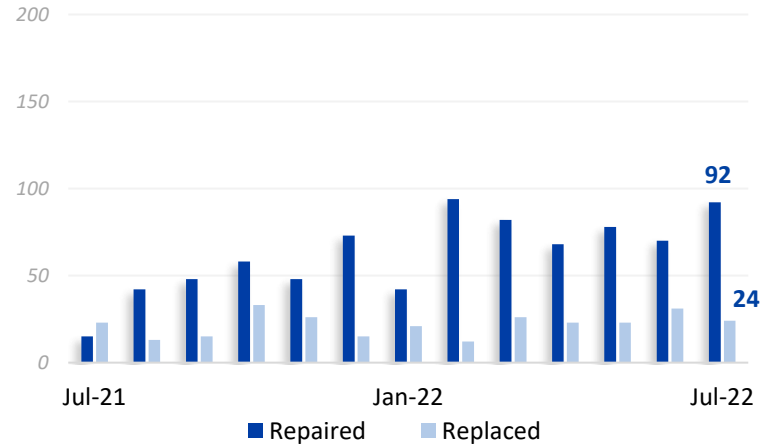
### Equipment Inspections

2021 YTD: 766  
2022 YTD: 820



### Equipment Repaired & Replaced

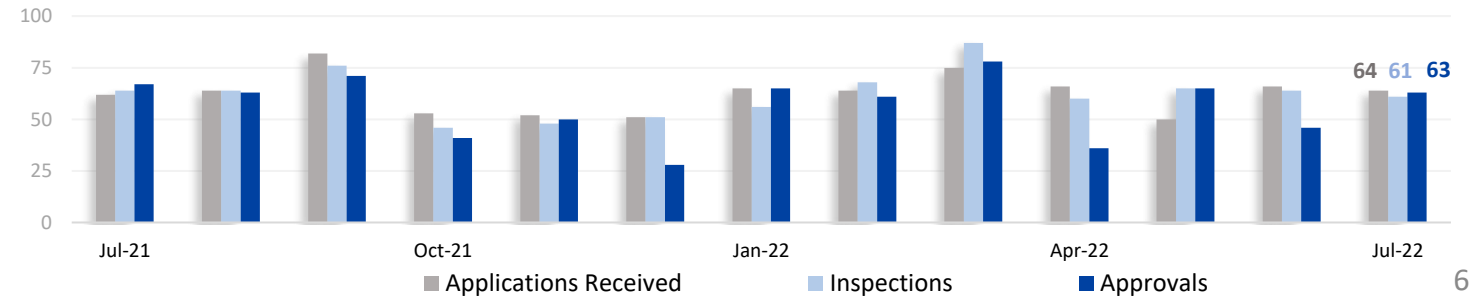
2021 YTD: Repaired - 361, Replaced - 238  
2022 YTD: Repaired - 462, Replaced - 160



## Pole Contacts

### Applications Received & Permits Issued

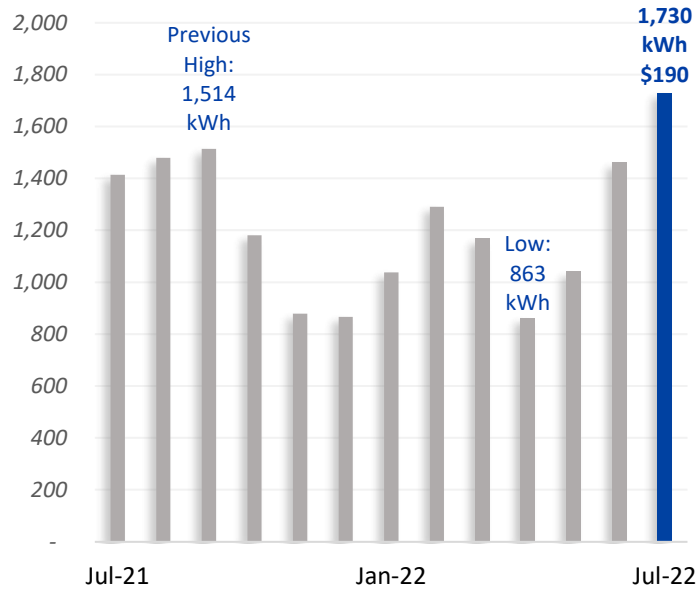
2021 YTD: Received - 417, Inspected - 452, Approved - 447  
2022 YTD: Received - 450, Inspected - 461, Approved - 414





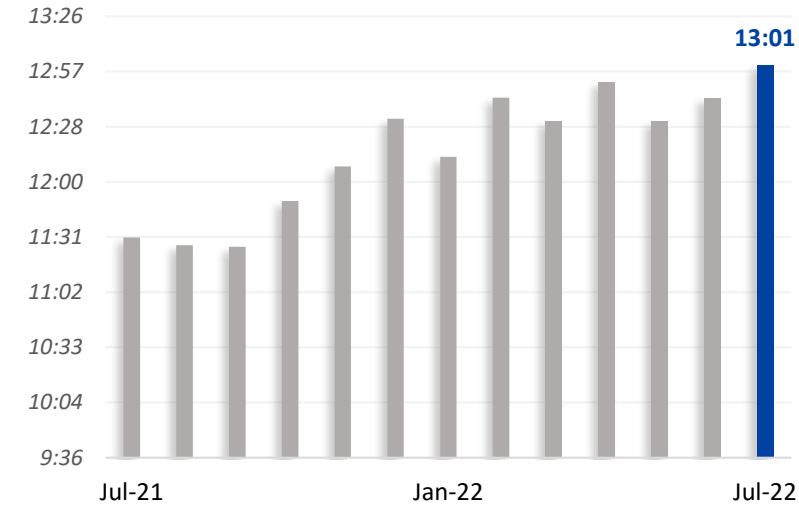
# Member Relations

## Average Residential Usage



## Member Contacts

### Average Handle Time

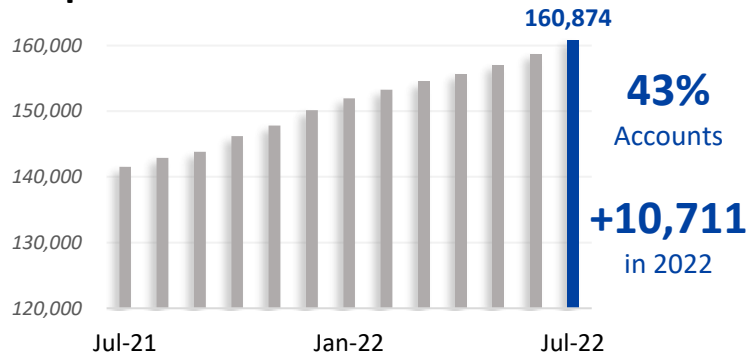


## Contact Types

2021: 419,277 Contacts

Main Contact Types	Jul. Totals	
Service Request	10,368	32%
Payment	6,623	20%
Billing Inquiry	4,927	15%
Payment Arrangement	2,222	7%
Account Update	1,660	5%
Autopay Deposit Waiver	967	3%

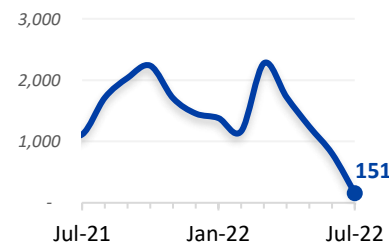
## Paperless Enrollments



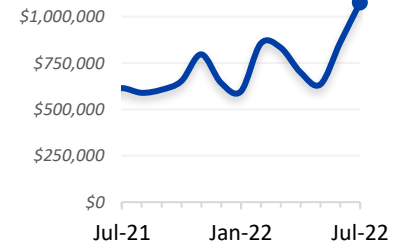
## Collections

20 days with no collection activity due to high temp.

### Remote Disconnects



### Aged Balances



## Energy Services

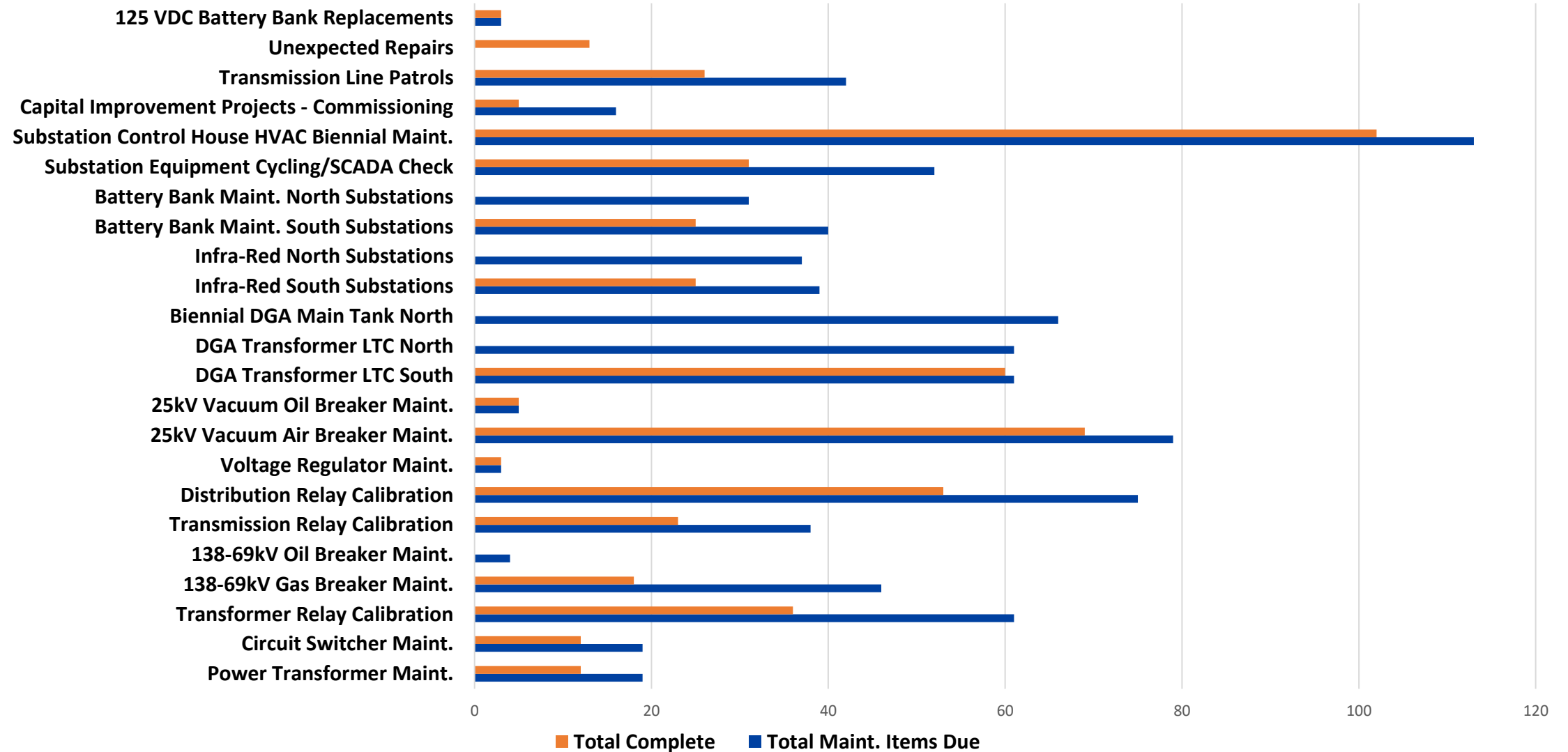
2021 YTD: Audits - 204, Insp. - 855  
2022 YTD: Audits - 175, Insp. - 1,128





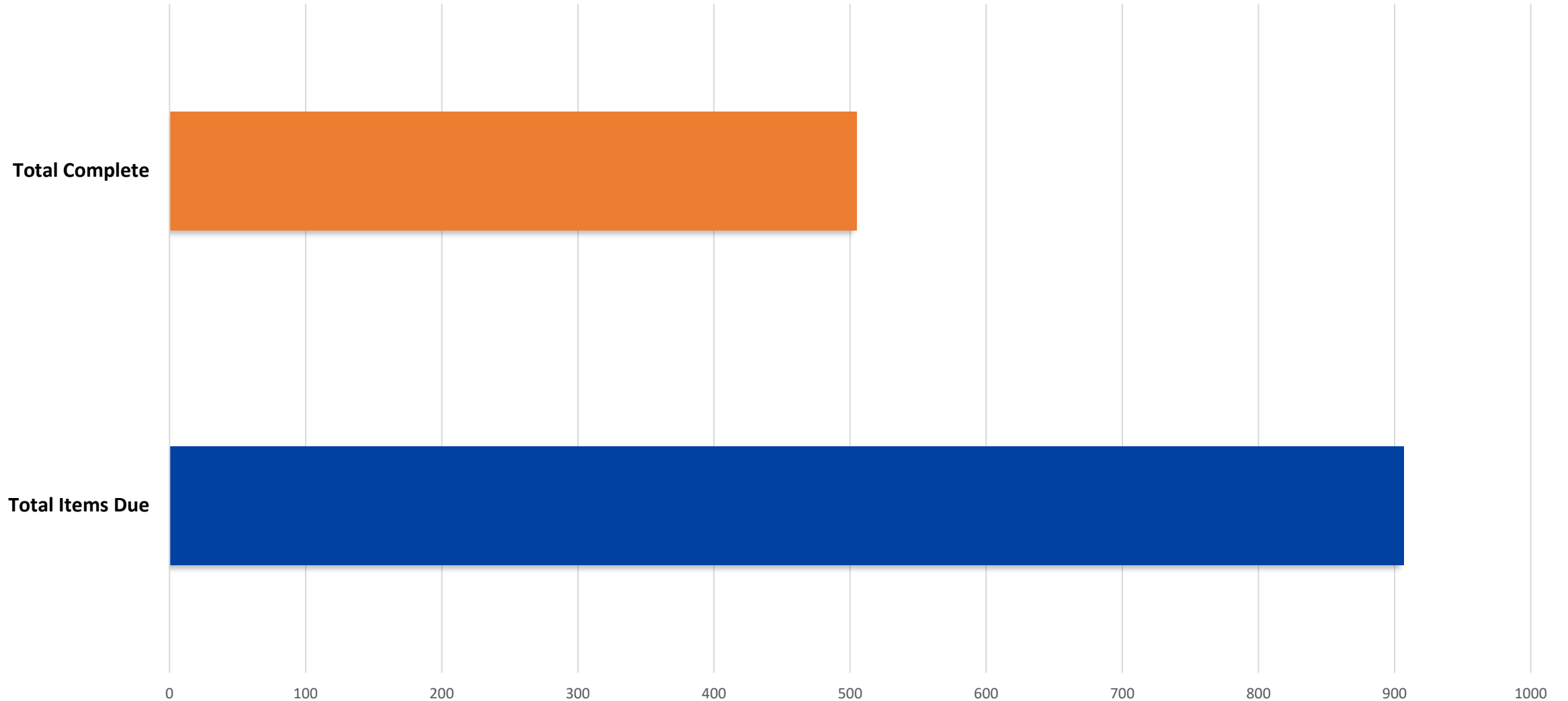
# Substation & Transmission Maintenance

## 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
WS - BH Remote Ends	Construction	Upgrade line protection relay panels	May 2022	100%
GB T4 Transformer Relay Panel Replacement	Construction	Upgrade T4 transformer panel from electromechanical to digital relays	May 2022	79%
CC T1 Total Breaker Addition	Engineering	Add total breaker to T1 transformer for reliability	Oct 2022	65%
KY T1 Upgrade	Engineering	Upgrade T1 transformer	Nov 2022	43%
138 kV Breaker Replacements	Engineering	Replace four end-of-life oil circuit breakers with SF6 breakers	Dec 2022	51%
Substation Satellite Clock Installations	Construction	Install satellite clocks at substation for time synchronization to relays	Jan 2023	69%
BR Bus Upgrade	Engineering	Upgrade bus to double-bus double-breaker	Apr 2023	38%
SJ T3 Addition	Engineering	Add third power transformer	Jun 2023	37%
LH T4 Addition	Engineering	Add third power transformer	Jun 2023	72%
BU T1 Upgrade	Engineering	Upgrade T1 transformer	Aug 2023	60%
HE Substation	Engineering	Construct new substation	Sep 2023	100%
Mobile Substation Upgrades	Engineering	Upgrade circuit switchers and relay protection on three mobile substations	Oct 2023	29%
JN Substation Upgrade	Engineering	Upgrade T1 transformer and add line breakers (AEP)	Oct 2023	23%
MF - TP - CV Remote Ends	Engineering	Upgrade line protection relay panels	May 2024	13%

# 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	100%
Regulator Settings	Jun 2022	95%
Capacitor Settings	Jul 2022	85%
Antler Battery Study	Aug 2022	98%
CIP Study	Aug 2022	60%
Mock UFLS Study	Nov 2022	0%
Winter Contingency	De 2022	0%
20 Year Plan	Jan 2023	10%
2 Year System Protection Coordination Review	Jan 2024	60%

# Transmission Projects

## Projects Completed:

- **WS – BH – LA** 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 Engineering:

- **MF – TP – CV – FS – RU** (*Oak Hill*):
  - 15.41 mi., construction contract awarded, to begin Sep. 2022.
- **DS – RU Relocation** (*Oak Hill*):
  - On hold pending direction from developer and resolution of complaint filed at PUCT.
- **LV – NL – LA Transmission Overhaul** (*Cedar Park and Liberty Hill*):
  - Coordinating with Substation Design for cut-in to HE Substation.
  - Structural analysis confirmed need to upgrade to meet NESC District loads.
- **SA – FC** (*Canyon Lake*):
  - Raise crossing over Canyon Dam discharge channel, material and poles ordered.
  - U.S. Corp of Engineers granted extension of permit for existing facilities through Jan. 2023.
- **MK – HN** (*Oak Hill*):
  - Respacing shield wire and conductor to reduce outage vulnerability during extreme weather, material and poles ordered.
- **ML – HT** (*Kyle*):
  - Rebuild of single circuit section, material and poles ordered.
  - Railroad signal mitigation study – ongoing.



# 19-Ton Pole Project

**Oak Hill District raised a large, 70 ft. concrete pole:**

- 2 months to design and approve construction.
- 6 weeks to manufacture.
- 5 weeks to prep site and complete construction.
- Crews worked overnight and coordinated traffic stoppage to place and set the pole.



# BCRUA Line Project

PEC was asked to provide power for a deep-water intake project for the Cities of Leander and Cedar Park involving:

- 155 wood poles
- 37 steel poles
- 25 miles of double circuit 795 conductor

To meet critical dates and to address potential water supply concerns, PEC was asked to reduce a 12-mo. construction schedule into 8 mo.:

- 3 PEC crews and 2 contract crews were able to safely and successfully complete the project in 8 mo.
- Project was recognized by NRECA for National Linework Appreciation Day in April.

NEWS

## Photo Gallery: Celebrating Lineworkers

Published  
April 11, 2022

Author  
NRECA

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*Pedernales Electric Cooperative's Ronnie Taylor was tasked with leading and completing a critical construction job consisting of setting 192 poles and installing 25 miles of double-circuit 795 conductors. The project will help provide water to some of the fastest-growing areas in Texas. Ronnie's team was asked to take a 12-month project and condense it into eight months, which they accomplished—and accomplished safely. (Submission By: Jason Murray; Photo By: Evan Bradfield)*

Throughout April, NRECA is celebrating lineworkers by highlighting the men and women who help keep the lights on in homes across America.

# 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 1<sup>st</sup> quarter, 2023.
  - Closely monitoring the current inventory combined supply of AMI and TWACs available through June 2023 to cover new growth and service repairs.
- Specialty meter exchanges (polyphase AMI) are substantially complete:
  - Polyphase meters are for commercial and industrial locations, 2S AMI meters are for residential locations.
  - All large power meter exchanges are complete.
  - Other meters in targeted areas exchanged across the Eastern territory.
  - Remaining polyphase meters will be exchanged with future residential meter exchanges.

## 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: 2,144
- Junction: 68
- Kyle: 1,963
- Oak Hill: 1,748
- Marble Falls: 509
- Canyon Lake: 217
- Bertram: 159
- Cedar Park: 259



# Facilities

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## **Cedar Park Access**

The Cedar Park access road to Anderson Mill has been completed.

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## **Dripping Springs Storage Yard**

The new fence has been installed and a portion of the base material has been installed.

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## **Johnson City**

Installed generators at the Mailroom, the Haley Rd gate, and at fuel pumps.

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## **Junction**

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

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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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