



# Operations Report

Eddie Dauterive | Chief Operations Officer

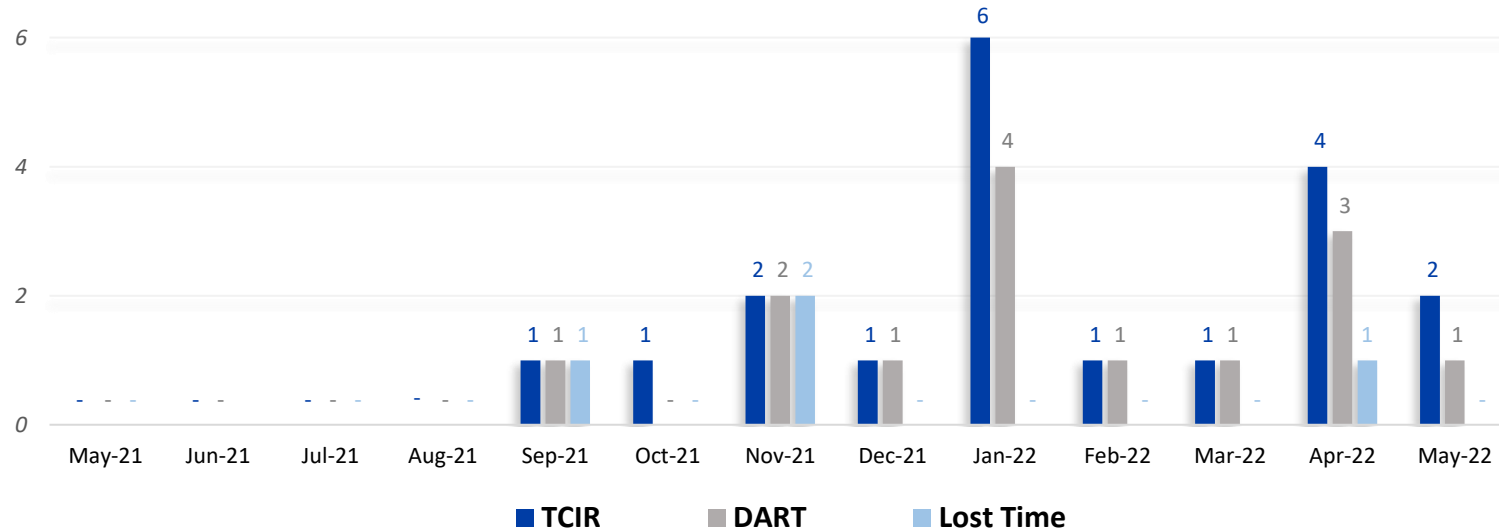
June 17, 2022

# Safety & Technical Training

## Personal Incidents

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

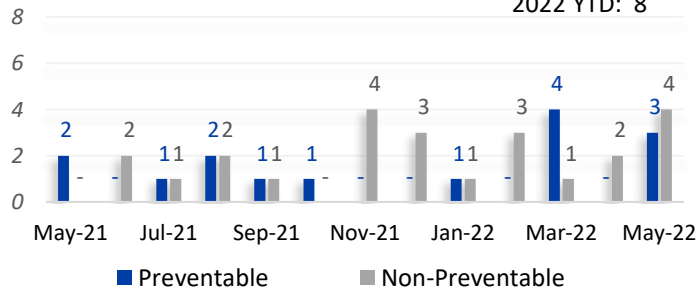
2021 YTD: DART Days - 156, Lost Time Days - 70  
 2022 YTD: DART Days - 114, Lost Time Days - 7



## Vehicle Incidents

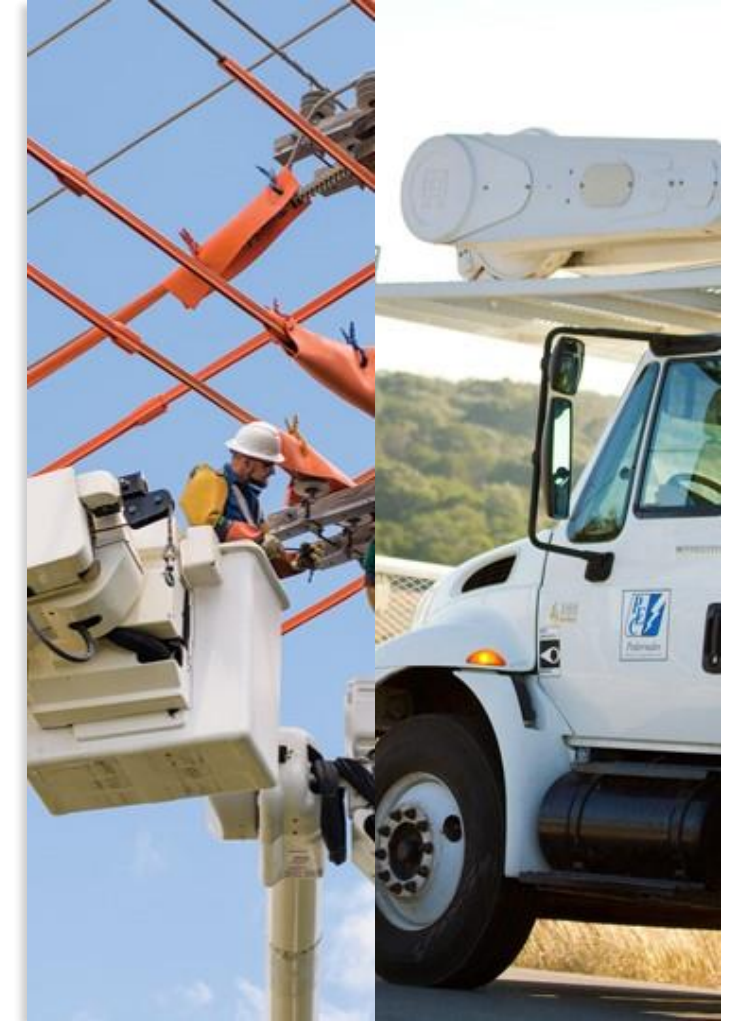
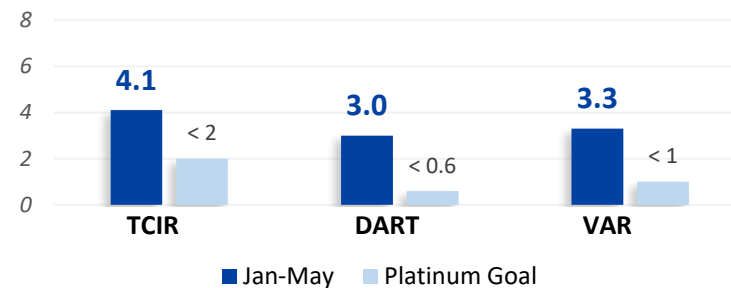
### Preventable & Non-Preventable

Preventable:  
 2021 YTD: 9  
 2022 YTD: 8



## KPI Progression

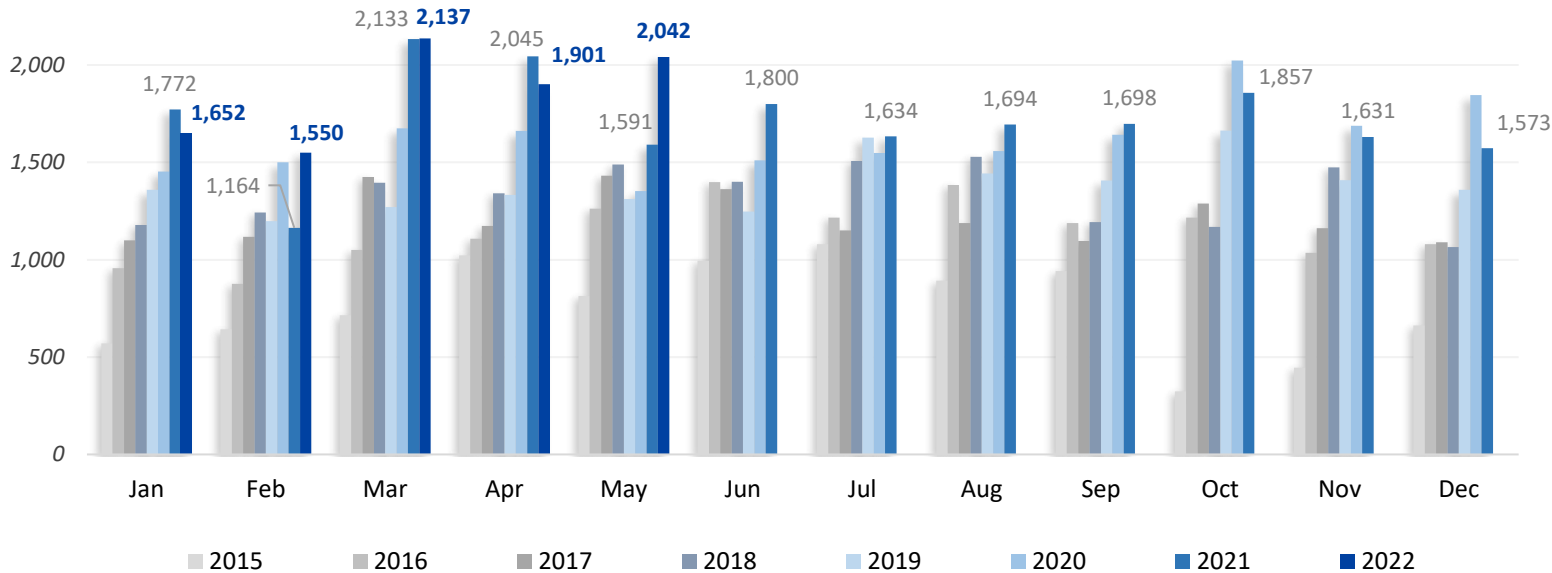
### 2022 Period One



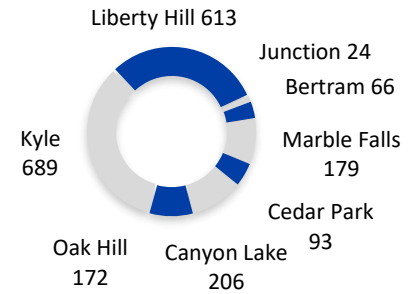
# System Growth

## Line Extensions Completed

2019: 16,640    2020: 19,458    2021: 20,592    2022 YTD: 9,282



## Line Extensions Per District (2,042)

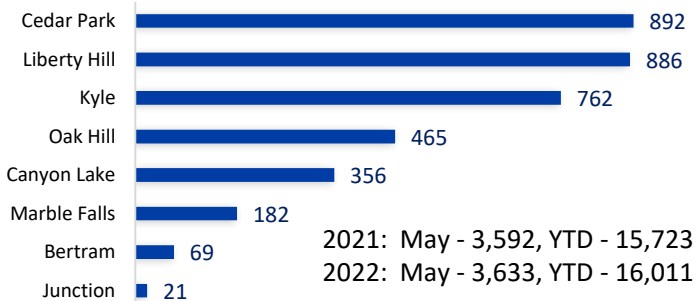


## Miles of Distribution Line:

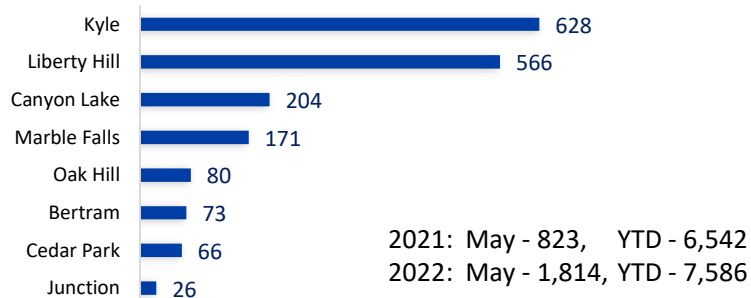
Underground: 6,534 (27%)  
 Overhead: 17,517 (73%)  
 Total: 24,051



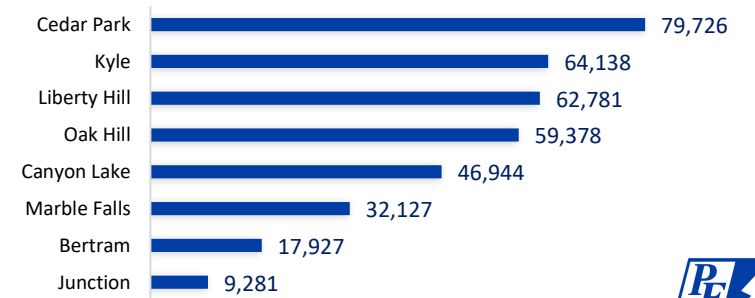
## Member Applications (3,633)



## Meter Growth (1,814)

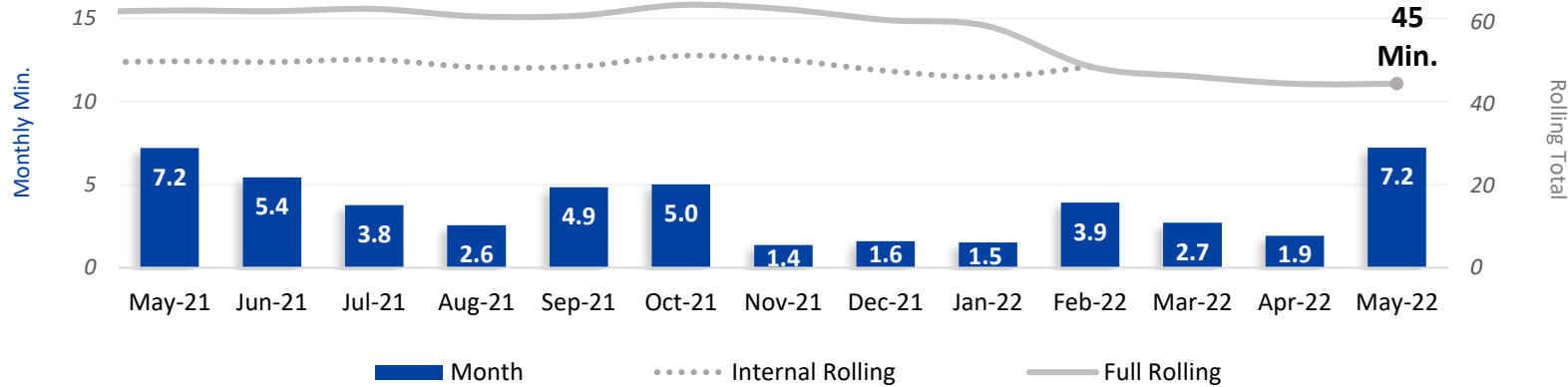


## Meter Totals (372,302)

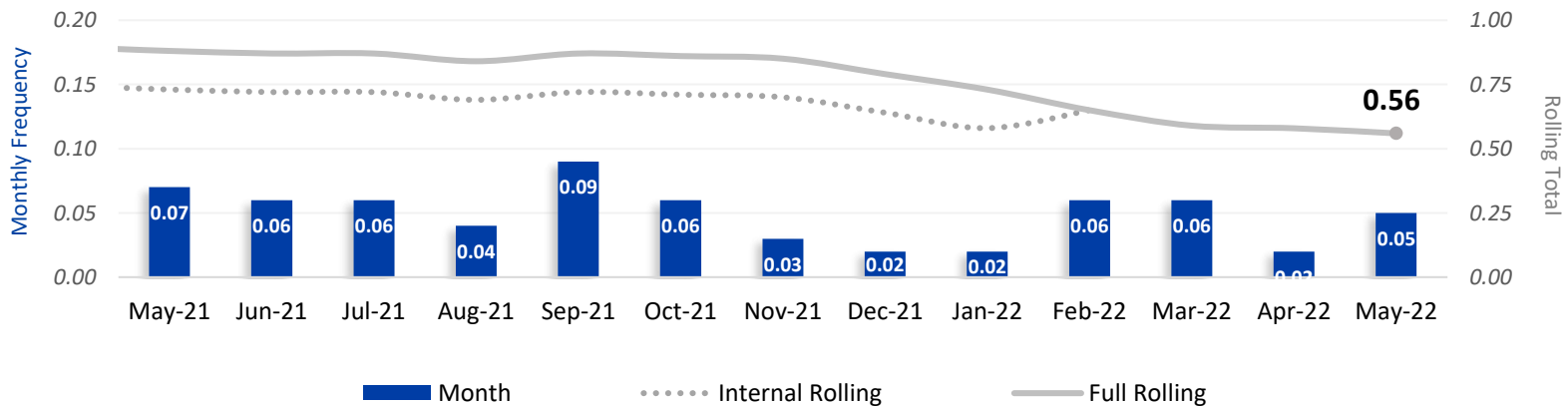


# Reliability

## System Average Interruption Duration Index (SAIDI)



## System Average Interruption Frequency Index (SAIFI)

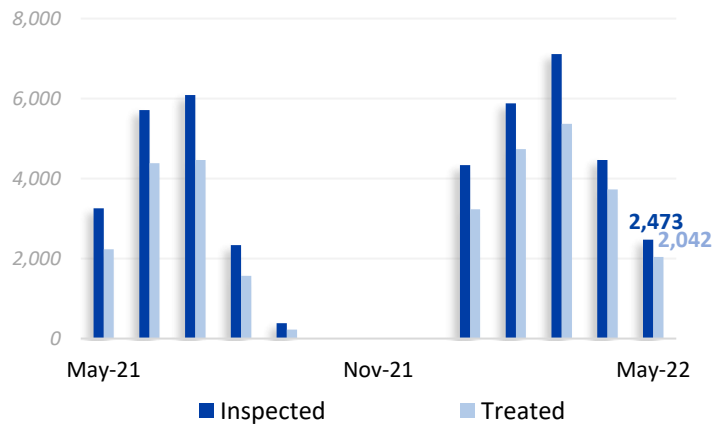


# System Maintenance

## Pole Testing & Treatment (PTT)

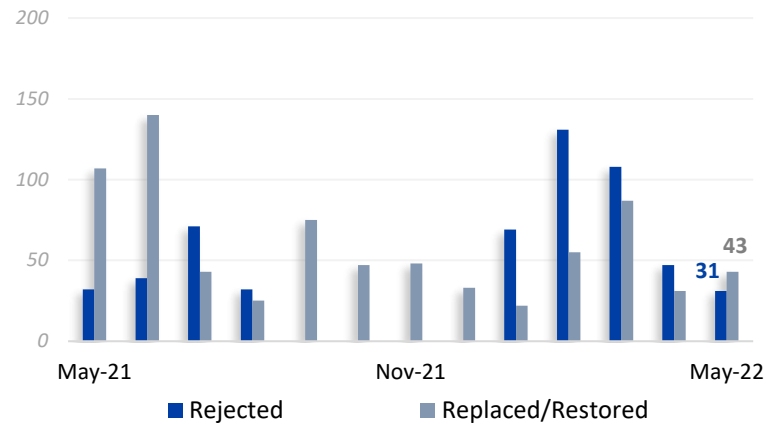
### Poles Inspected & Treated

2021 YTD: Inspections - 24,960, Treated - 19,866  
 2022 YTD: Inspections - 24,263, Treated - 19,116



### Poles Rejected & Replaced/Restored

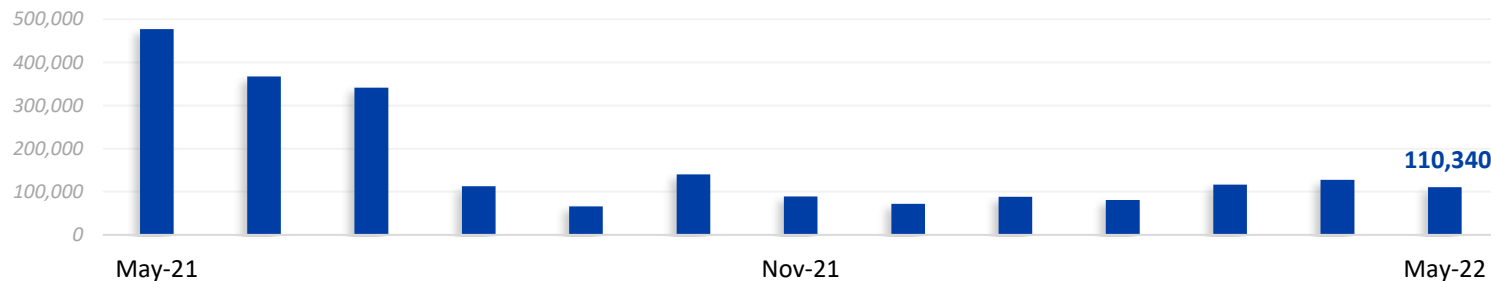
2021 YTD: Rejected - 484, Restored - 422  
 2022 YTD: Rejected - 386, Restored - 238



## Vegetation Management

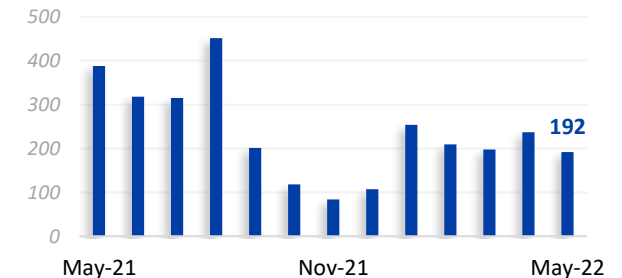
### Vegetation Pruned (Ft.)

2021 YTD: 1,654,707 ft. May URD Clearings: 297  
 2022 YTD: 523,772 ft. May Locations Worked: 1,236



## URD Pad Restorations

2021 YTD: 2,045  
 2022 YTD: 1,090

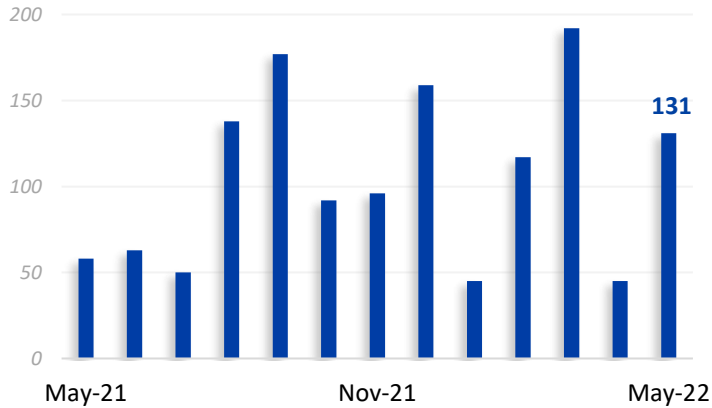


# System Maintenance

## Technical Services

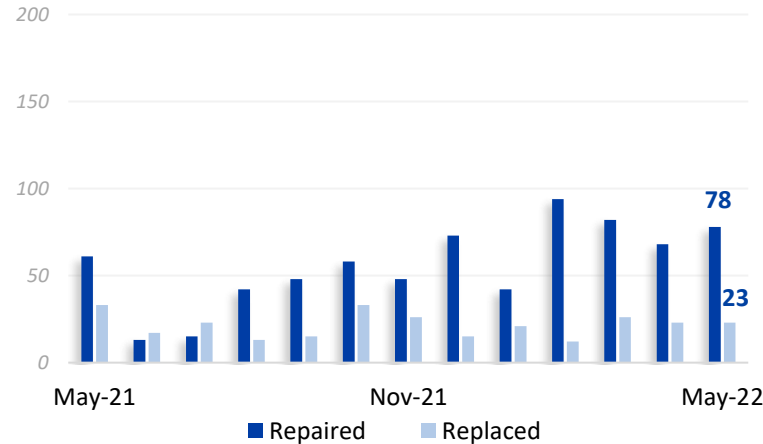
### Equipment Inspections

2021 YTD: 653  
2022 YTD: 530



### Equipment Repaired & Replaced

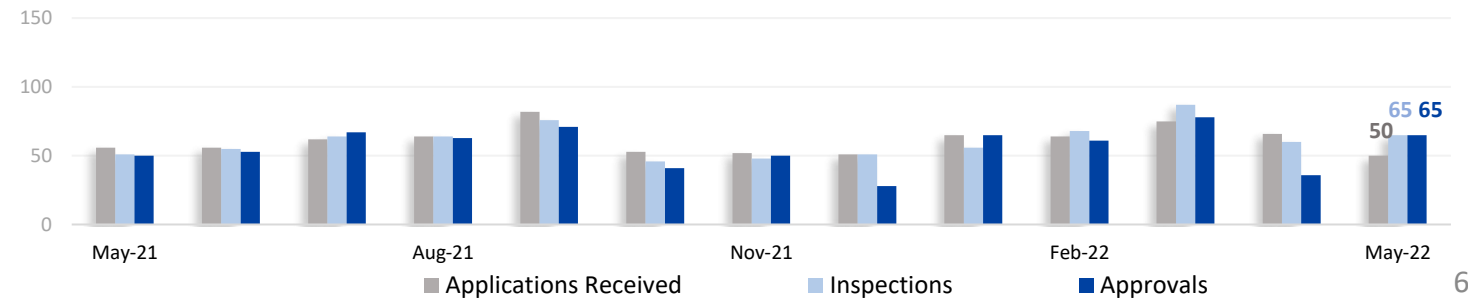
2021 YTD: Repaired - 333, Replaced - 198  
2022 YTD: Repaired - 322, Replaced - 105



## Pole Contacts

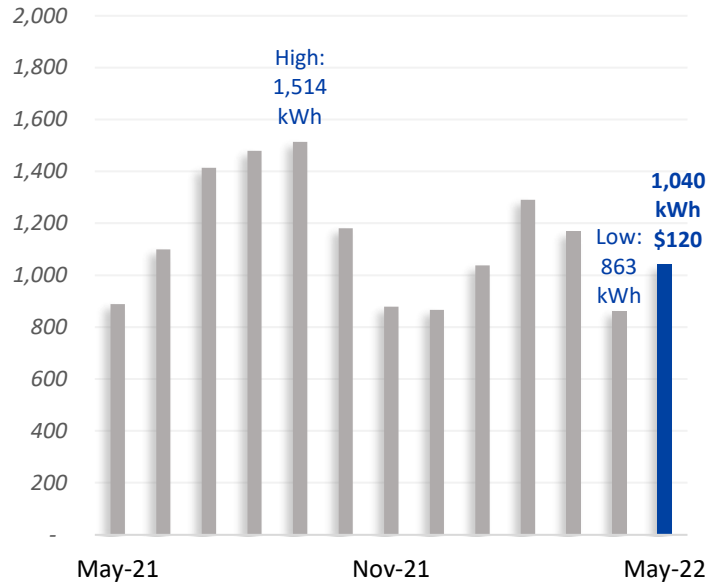
### Applications Received & Permits Issued

2021 YTD: Received - 299, Inspected - 333, Approved - 327  
2022 YTD: Received - 320, Inspected - 336, Approved - 305



# Member Relations

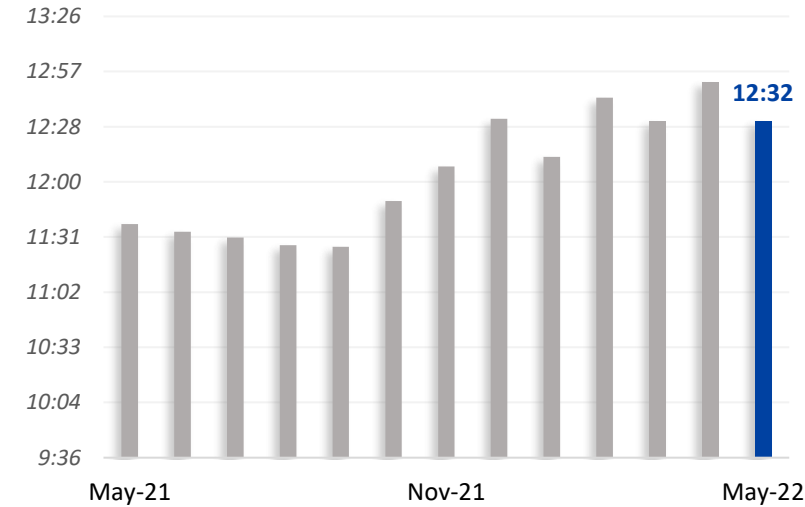
## Average Residential Usage



## Member Contacts

### Average Handle Time

May Phone Contacts: 25,545  
May Office Contacts: 5,713

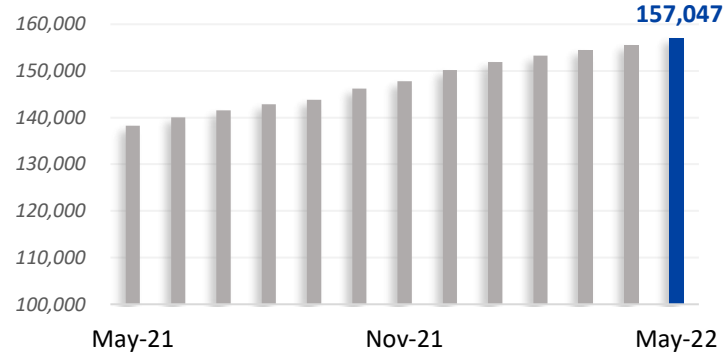


### Contact Types

2021: 419,277 Contacts

Main Contact Types	May. Totals	
Service Request	10,673	32%
Payment	6,524	20%
Billing Inquiry	4,409	13%
Account Update	1,833	5%
Payment Arrangement	1,796	5%
Autopay Deposit Waiver	1,379	4%

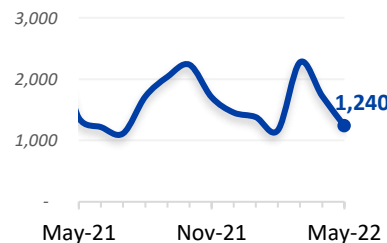
## Paperless Enrollments



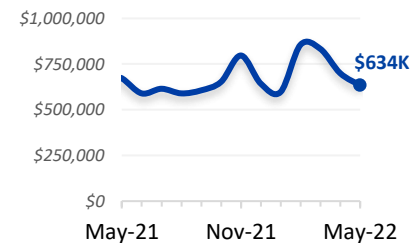
## Collections

7 days with no collection activity due to holiday and high temp.

### Remote Disconnects



### Aged Balances



## Energy Services

2021 YTD: Audits - 139, Insp. - 584  
2022 YTD: Audits - 97, Insp. - 815



# Substation Projects

## Projects in Construction:

- **T469 Whitestone to Blockhouse Remote Ends** (*Cedar Park*):
  - Whitestone and Blockhouse: Line protection relay panel end-to-end testing and commissioning after T-line upgrades are complete.
  - Completion extended to June 30.
- **Substation Satellite Clock Installations** (*Various Locations*):
  - UTC time synchronization for digital relays for NERC compliance.

## Projects Completed:

- **Wirtz to Flatrock to Paleface** (*Marble Falls*):
  - Supporting transmission line upgrade project.
  - Wirtz: 138 kV breaker replacements, line relay, and breaker failure panel replacements.
  - Flatrock: 138 kV breaker and line relay panel additions.
  - Paleface: 138 kV Bus reconfiguration, 138 kV switch replacements, and new line protection relay panels.
  - Completion May 15.
- **Gabriel T4 Transformer Relay Panel Replacement:**
  - Upgrade to digital relays due to an LCRA 138kV Bus upgrade that triggered PEC's upgrade.
  - Completion May 27.





# Substation Projects

## Projects in Engineering:

- **Mobile Substation Upgrades:**
  - Mobile #1: Upgrade circuit switcher to 40KA, replace 25 KV breaker, upgrade protection relays to SEL digital relays, and add SCADA RTU. May 2023 - Jul. 28, 2023
  - Mobile #2: Upgrade circuit switcher to 40KA, upgrade protection relays to SEL digital relays, and add SCADA RTU. Oct. - Dec. 02, 2022
  - Mobile #3: Upgrade circuit switcher to 40KA and add SCADA RTU. Aug - Sep. 30, 2022
- **138KV Breaker Upgrades:**
  - Sattler: Upgrade OCBs 5580 & 5590 to SF6 gas breakers. Sep. - Oct. 2022
  - Cranes Mill: Upgrade OCBs 8580 & 8590 to SF6 gas breakers. Oct. - Dec. 2022
  - Buttercup: Upgrade 138KV operating bus to Double breaker/bus configuration. Oct. - Apr. 2023
  - Marshall Ford: CBs 8020, 9170, & 9180. Replace control cables. Sep. - May 2023
- **Copperas Cove:** Addition of T1 25KV Total Main Breaker.
- **Hero Way:** New substation.
- **Seward Junction:** T3 addition.
- **Kyle:** T1 upgrade to 46.7 MVA.
- **Junction:** Substation rebuild & relocation.



# Transmission Projects

## Projects Completed:

- **Wirtz to Flatrock to Paleface** (*Marble Falls*):
  - 17 miles, increases clearance over Lake Marble Falls, completes the overhaul begun in 2018, and increases capacity of transmission line to 440 MVA as part of Wirtz RAS exit strategy.
  - Energized on May 16, 2022
  - Right-of-way restoration ongoing.

## Projects in Construction:

- **Whitestone - Blockhouse – Leander** line upgrade (*Cedar Park*):
  - 5.25 miles, rebuild existing 138 kV line to 440 MVA capacity.
  - Contractor and CAP Metro permit related delays will push energization to mid-Jun. 2022.

## 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 bids received, to being Sep. 2022.
- **Dripping Springs to Rutherford Relocation** (*Oak Hill*):
  - On hold pending direction from developer and resolution of complaint filed at PUCT.



# Transmission Projects

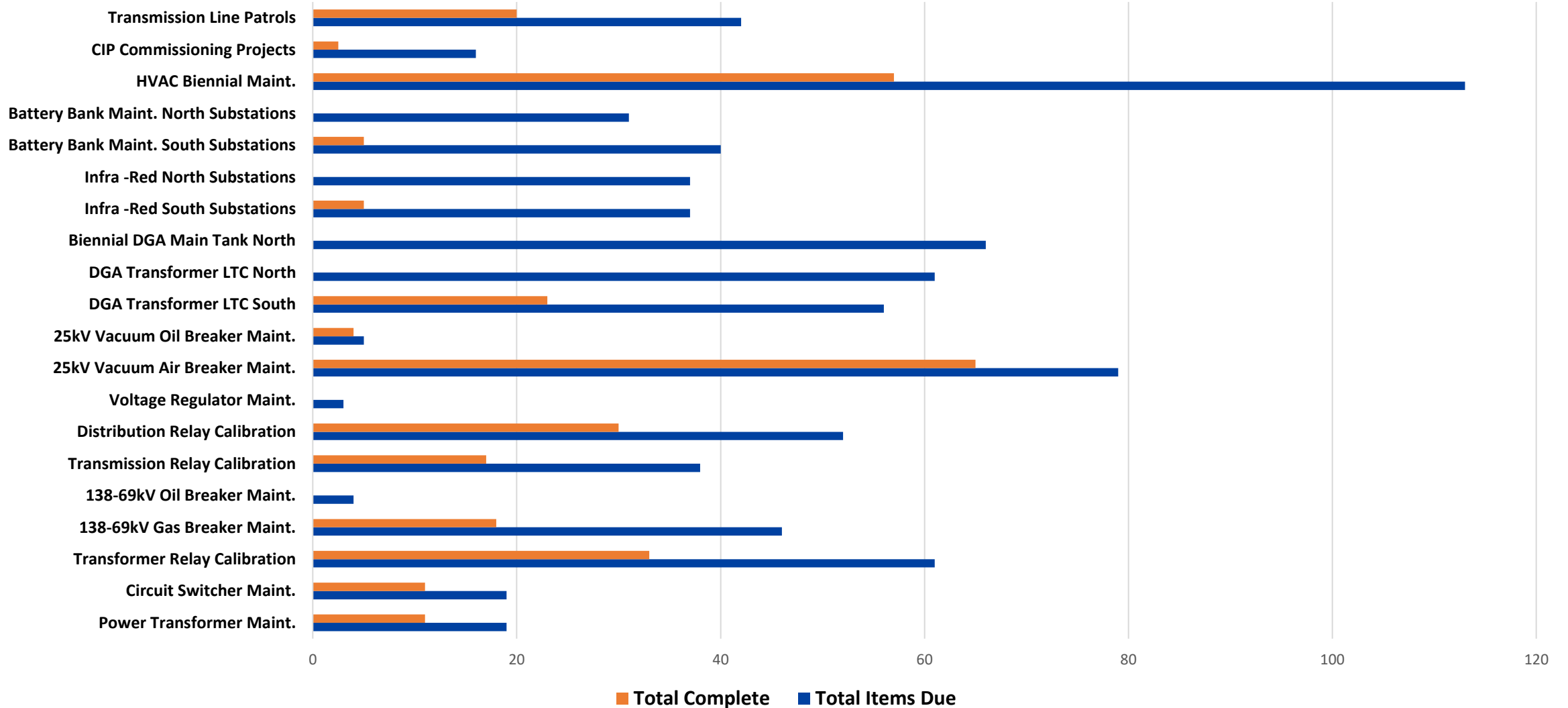
## Projects in Engineering (continued):

- **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 between 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 ordered, pole bids received



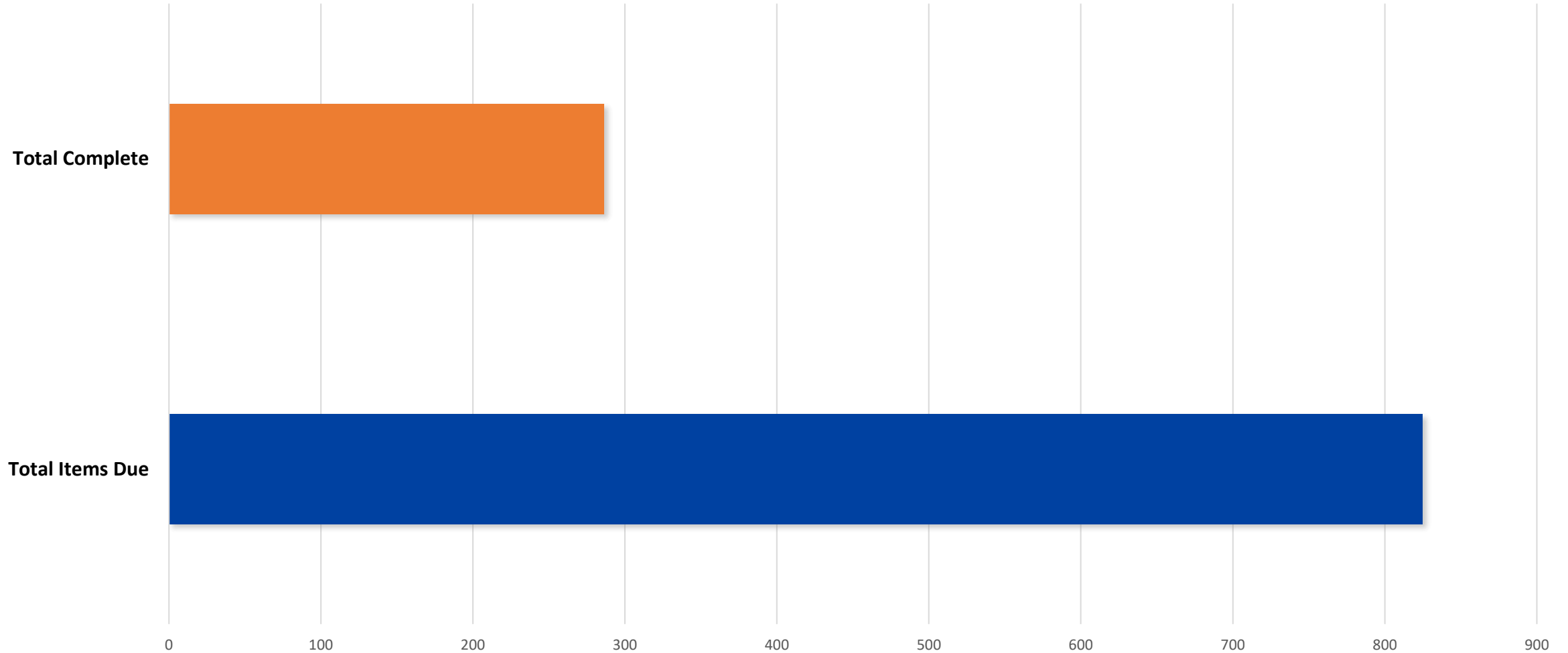
# Substation & Transmission Maintenance

## 2022 Itemized Maintenance By Equipment



# 2022 Substation & Transmission Maintenance

Overall Status Year-to-Date



# 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: 628
- Bertram: 159
- Canyon Lake: 805
- Cedar Park: 259

# Cooperative Lighting Services

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

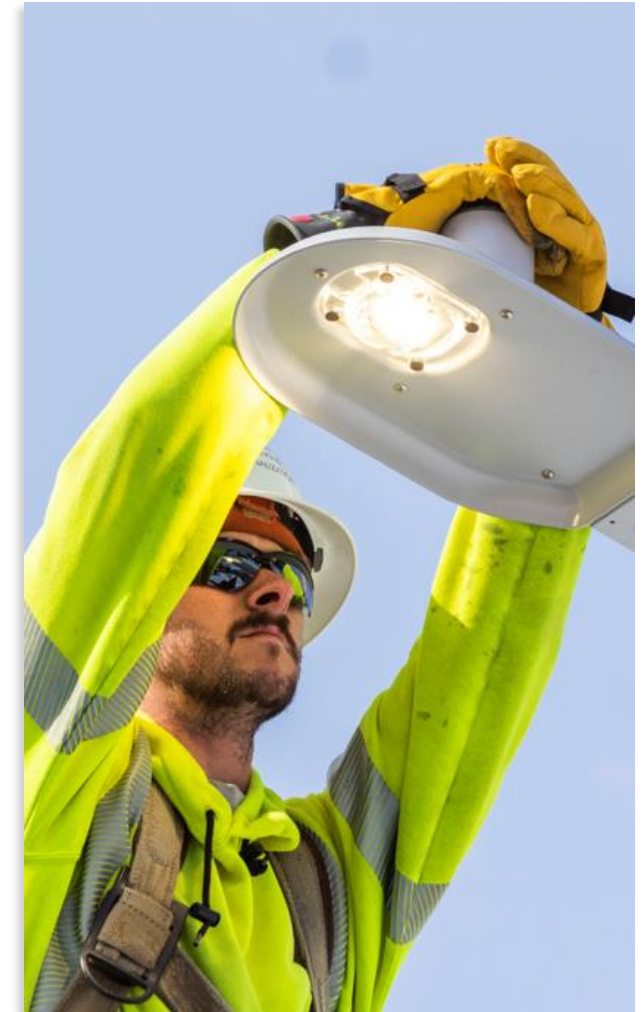
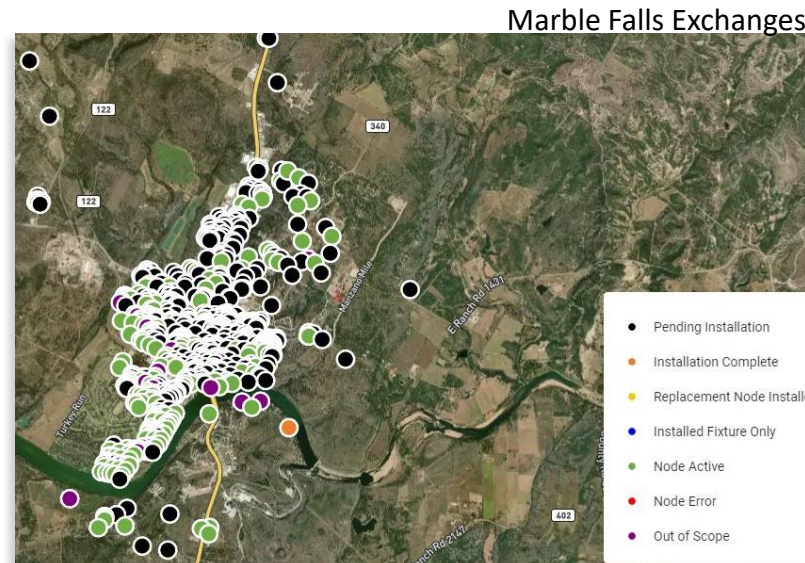
Approximately 30,000 cooperative-owned street and roadway lights in the Eastern territory will be replaced to new, energy-efficient, LED lighting.

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 May:

- Lights Audited : 22,288
- Lights Replaced: 8,791



# Facilities

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## **Cedar Park Access**

The concrete driveway has been poured. IT and utilities are 75% complete. The fence, electrical, and security installations have begun.

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## **Dripping Springs Storage Yard**

The RFP for yard renovations has been completed and the project is pending permits from the city.

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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 are scheduled to move in on June 20th.

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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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