

# **Operations Report**

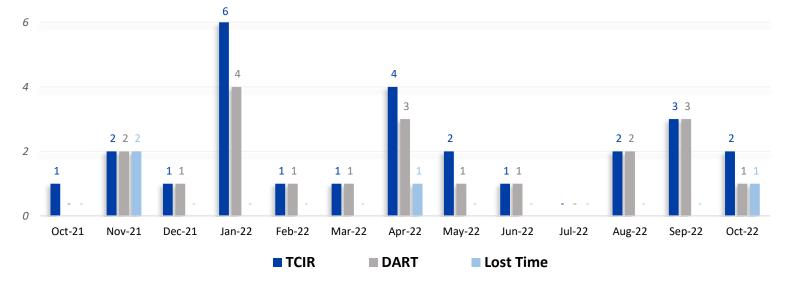
Eddie Dauterive I Chief Operations Officer

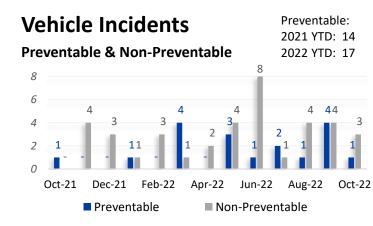
# Safety & Technical Training

### **Personal Incidents**

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

2021 YTD: DART Days - 402, Lost Time Days - 159 2022 YTD: DART Days - 171, Lost Time Days - 8





## KPI Progression 2022 Period Two



Jul - Dec Platinum Goal

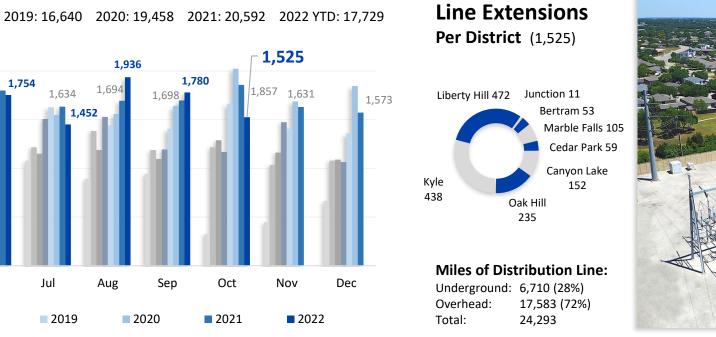




## System Growth

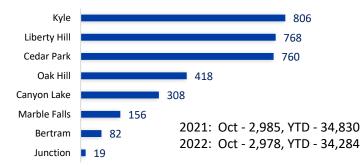
### **Line Extensions Completed**

2,133 2,137 2,042 1,525 2,045 1.936 1,901 2,000 1,772 1,800 **1,754** 1,780 1,694 1,634 ,857 1,631 1,698 1,652 1,573 1,591 1,550 1,500 1.164 1,000 500 0 Feb Sep Jan Mar Apr May Jul Aug Oct Nov Dec Jun 2020 2022 2015 2016 2017 2018 2019 2021

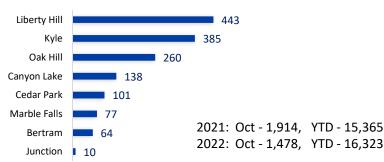




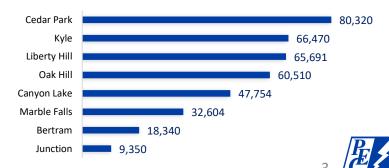
### Member Applications (2,978)



### Meter Growth (1,478)

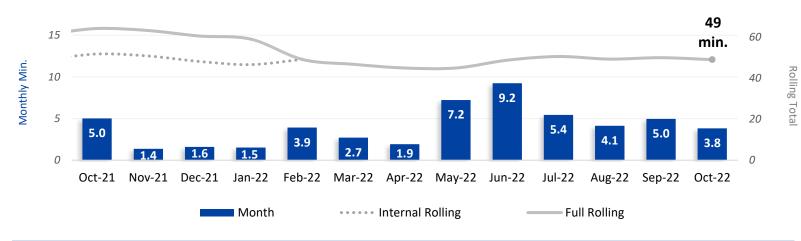


### Meter Totals (381,039)



## Reliability





### System Average Interruption Frequency Index (SAIFI)

Month



•••••• Internal Rolling

- Full Rolling





# SMS Outage Messaging

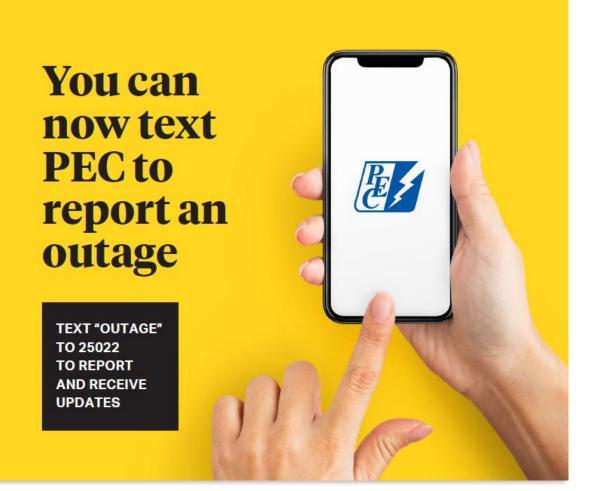
Members can now text PEC to report outages by simply texting the word "outage" to 25022.

To utilize this feature, the mobile number of the text must be associated with an account. Members can add a mobile number in SmartHub, in the My Profile section, to receive outage alerts via text.

### Member Announcements:

- PEC website and outage center
- Social media
- Member emails
- A text to all members enrolled in emergency text alerts:

"PEC member, report power loss by texting OUTAGE to 25022. The mobile# must be associated with your account. Learn more at pec.coop/outage. Text STOP to OptOut."



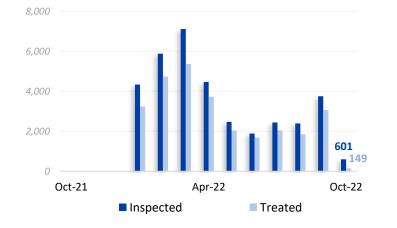


## **Distribution Maintenance**

### Pole Testing & Treatment (PTT)

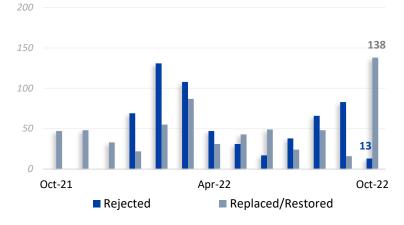
#### **Poles Inspected & Treated**

2021 YTD: Inspections - 39,492, Treated - 30,513 2022 YTD: Inspections - 35,341, Treated - 27,934



#### Poles Rejected & Replaced/Restored

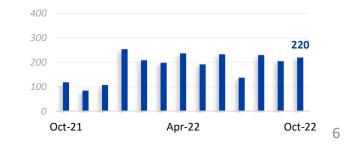
2021 YTD: Rejected - 626, Restored - 752 2022 YTD: Rejected - 603, Restored - 513



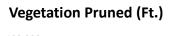


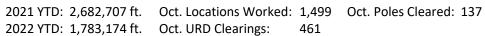
## URD Pad Restorations

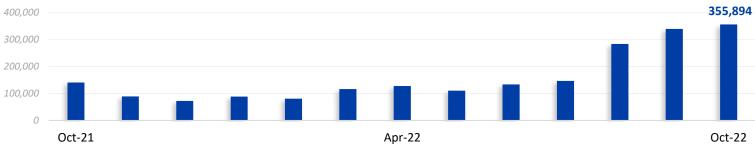
2021 YTD: 3,448 2022 YTD: 2,115



### **Vegetation Management**



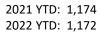


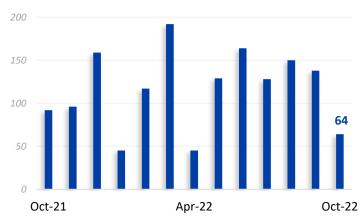


## **Distribution Maintenance**

### **Technical Services**

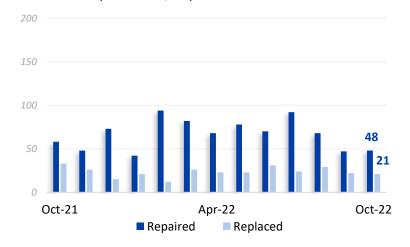
#### **Equipment Inspections**





#### **Equipment Repaired & Replaced**

2021 YTD: Repaired - 509, Replaced - 299 2022 YTD: Repaired - 588, Replaced - 232



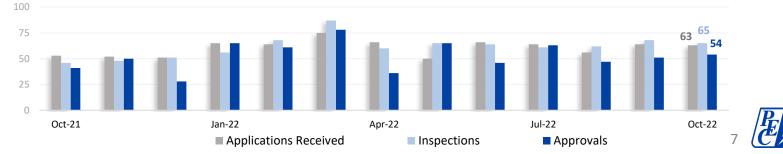




### **Pole Contacts**

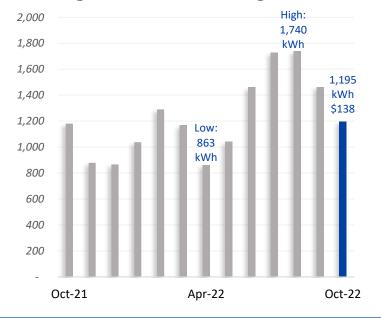
Applications Received & Permits Issued

2021 YTD: Received - 616, Inspected - 638, Approved - 622 2022 YTD: Received - 633, Inspected - 656, Approved - 566

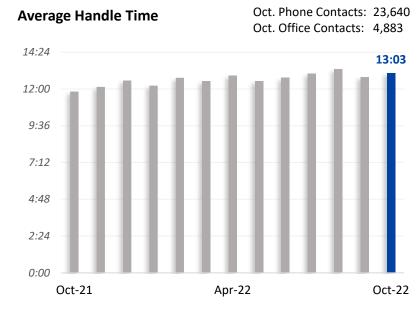


## **Member Relations**

### Average Residential Usage



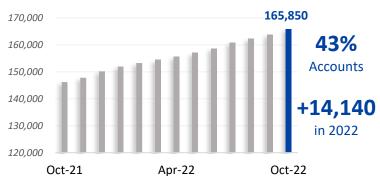
### **Member Contacts**





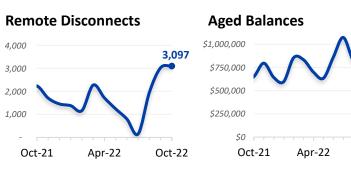
Contact Types	2021: 419,277 Contacts		
Main Contact Types	Oct. To	Oct. Totals	
Service Request	8,089	27%	
Payment	5,349	18%	
Billing Inquiry	4,886	16%	
Payment Arrangement	2,225	7%	
Account Update	1,470	5%	
Autopay Inquiry	1,050	4%	

### **Paperless Enrollments**



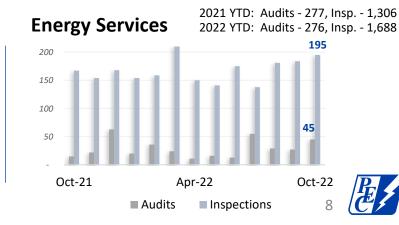
### Collections

Only 1 day with no collection activity.



\$681K

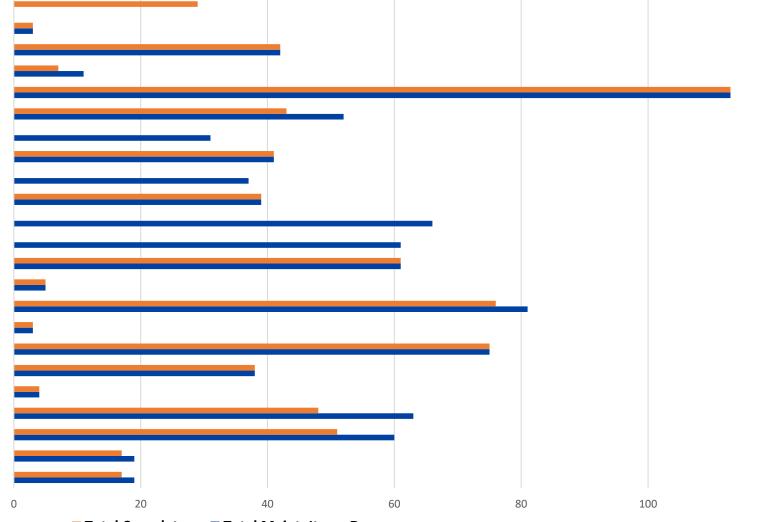
Oct-22



# Substation & Transmission Maintenance

2022 Itemized Maintenance By Equipment

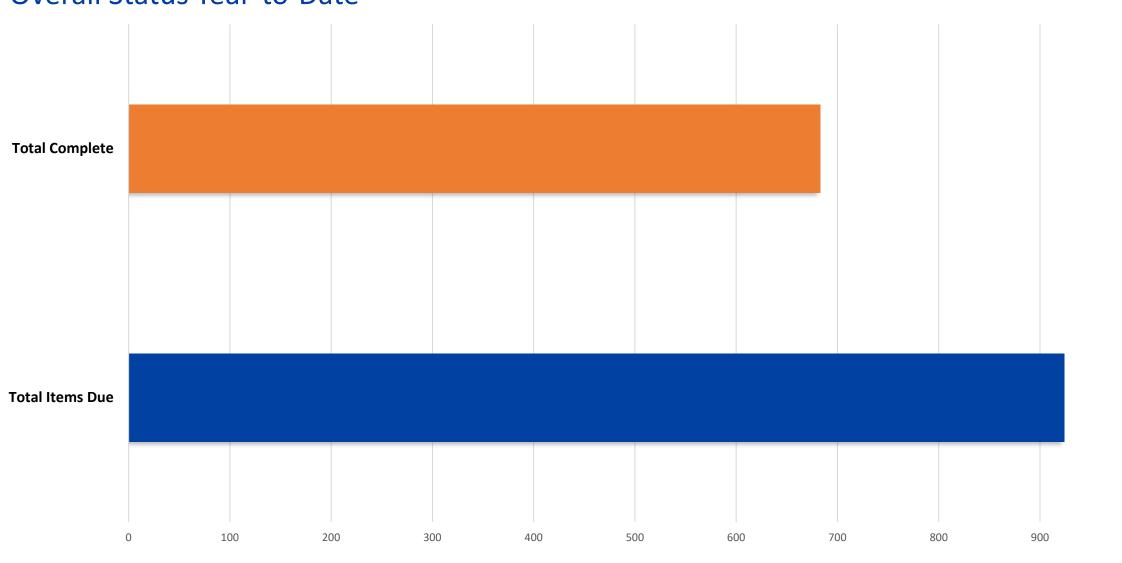
**Unexpected Repairs 125 VDC Battery Bank Replacements Transmission Line Patrols Capital Improvement Projects - Commissioning** Substation Control House HVAC Biennial Maint. Substation Equipment Cycling/SCADA Check **Battery Bank Maint. North Substations Battery Bank Maint. South Substations Infra-Red North Substations** Infra-Red South Substations **Biennial Dissolved Gas Oil Analysis Main Tank North Dissolved Gas Oil Analysis Transformer LTC North Dissolved Gas Oil Analysis Transformer LTC South** 25kV Vacuum Oil Breaker Maint. 25kV Vacuum Air Breaker Maint. Voltage Regulator Maint. **Distribution Relay Calibration Transmission Relay Calibration** 138-69kV Oil Breaker Maint. 138-69kV Gas Breaker Maint. **Transformer Relay Calibration Circuit Switcher Maint. Power Transformer Maint.** 



120



## 2022 Substation & Transmission Maintenance Overall Status Year-to-Date



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# Substation Engineering Projects

## **Overall Status**

	Project		Completion	
Project	Phase	Description	Date	Percent Complete
WS - BH Remote Ends	Completed	Upgrade line protection relay panels	May 2022	100%
GB T4 Transformer Relay Panel Replacement	Completed	Upgrade T4 transformer panel from electromechanical to digital relays	May 2022	100%
CC T1 Total Breaker Addition	Completed	Add total breaker to T1 transformer for reliability	Oct 2022	100%
Substation Satellite Clock Installations	Completed	Install satellite clocks at substation for time synchronization to relays	Oct 2022	100%
KY T1 Upgrade	Construction	Upgrade T1 transformer	Dec 2022	93%
138 kV Breaker Replacements	Construction	Replace four end-of-life oil circuit breakers with SF6 breakers	Dec 2022	87%
BR Bus Upgrade	Construction	Upgrade bus to double-bus double-breaker	Apr 2023	77%
Balcones Ground Grid	Engineering	Make improvements to ground grid for reliability	Apr 2023	37%
SJ T3 Addition	Engineering	Add third power transformer	Jun 2023	48%
LH T4 Addition	Engineering	Add third power transformer	Jun 2023	47%
Mobile Substation Upgrades	Engineering	Upgrade circuit switchers and relay protection on three mobile substations	Jun 2023	59%
BU T1 Upgrade	Engineering	Upgrade T1 transformer	Sep 2023	33%
JN Substation Upgrade	Engineering	Upgrade T1 transformer and add line breakers (AEP)	Oct 2023	61%
HE Substation	Engineering	Construct new substation	Dec 2023	43%
MF - TP - CV Remote Ends	Construction	Upgrade line protection relay panels	May 2024	51%

## 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	98%
Capacitor Settings	Jul 2022	90%
Antler Battery Study	Aug 2022	100%
CIP Study	Sep 2022	99%
Mock UFLS Study	Dec 2022	0%
Winter Contingency	Dec 2022	40%
20 Year Plan	Dec 2022	60%
2 Year System Protection Coordination Review	Dec 2023	60%

# **Transmission Projects**

## **Overall Status**

	Project		Completion		
Project	Phase	Description	Date	Perc	ent Complet
319 SA to FC	Procurement	Increase clearance to meet USACE requirements	Dec 2022	50%	
115 MK to HN	Procurement	Respacing shield wire and conductor to reduce outage vulnerability during extreme weather	Jan 2023	45%	
022 Transmission Assessment	Planning	NERC required annual planning assessment	Feb 2023	10%	
24 ML to HT	Engineering	Harden transmission line to meet severe weather requirements	Apr 2023	45%	
15 MF to TP	Construction	Harden transmission line to meet severe weather requirements	May 2023	65%	
16 DS to RF	Engineering	Developer funded transmission line relocation	Dec 2023	15%	
53 LA to SJ	Engineering	Add Fiber to existing transmission line	Dec 2023	5%	
760 NL to HE	Engineering	Harden transmission line to meet severe weather requirements	Dec 2023	20%	
27 HE to LA	Engineering	Harden transmission line to meet severe weather requirements	May 2024	20%	
23 TP to CV	Engineering	Harden transmission line to meet severe weather requirements	May 2024	20%	
23 PF to MF	Construction	Reconductor (Phase 1)	Dec 2024	60%	
58 CV to FS	Engineering	Harden transmission line to meet severe weather requirements	Dec 2024	0%	
333 LV to NL	Engineering	Harden transmission line to meet severe weather requirements	May 2025	10%	
60 FS to RF	Engineering	Harden transmission line to meet severe weather requirements	Dec 2025	0%	
23 PF to MF	Engineering	Overhaul (Phase 2)	NA	<b>5%</b>	

## **Cooperative Lighting Services**

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

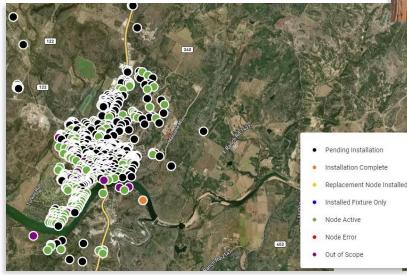
Approximately 30,000 cooperative-owned street and roadway lights in the Eastern territory will be replaced to new, energy-efficient, LED lighting.

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.

## **Progress - Exchanges in Oct:**

- Lights Audited : 30,061
- Lights Replaced: 20,056







## **AMI Distribution**

- Junction exchanges for TWACs meter upgrades are complete and now implementing Fault Detection and Localization (FD&L) technology:
  - FD&L allows more proactive identification of outages on TWACs meters.
  - Target completion by 1<sup>st</sup> quarter, 2023.
- Mass exchanges of RF meters in the Eastern territory remain on hold due supply shortages:
  - Currently 134,276 active RF meters installed.
  - PEC procured an additional 10,000 refurbished TWACs residential meters to support metering requirements through 2023, in the event of prolonged supply chain issues.
- PEC's RF meter provider, Aclara, has developed and is testing a new, more available, processor for RF meters:
  - PEC will be field testing the new RF meter in November 2022.
  - The new technology will have a full ramp up schedule of production in February 2023.
- PEC and Aclara are exploring all options to resume the production and deployment schedule for RF metering.



## **Facilities**

Cedar Park	New fuel tanks are being installed for better emergency preparedness, the project is 90% complete.
Dripping Springs Storage Yard	The new fence has been installed and a new top-coat on the existing base material has been installed. Other improvements pending city permit.
Johnson City	We have begun development of a master plan for the Haley Rd site, which includes the newly acquired property adjacent to the site.
Junction	Finalizing design and obtaining bids for yard renovations, pending substation design.
Leander Development	Building construction is in-progress and on schedule.
Marble Falls	Finalizing design, resolving encroachments, gathering bids and obtaining city approval for yard renovations.





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