

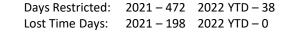
Operations Report

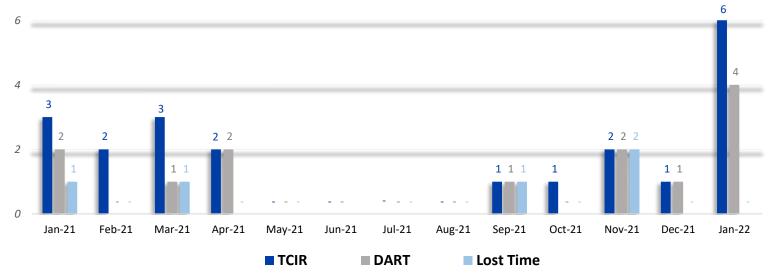
Eddie Dauterive | Chief Operations Officer

Safety & Technical Training

Personal Incidents

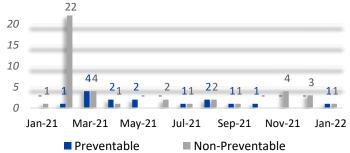
Reportable Injuries, Days Away, and Lost Time Incidents





Vehicle Incidents

Preventable & Non-Preventable 2021 Preventable: 14 2021 Non-Preventable: 41



KPI Progression

2022 Period One



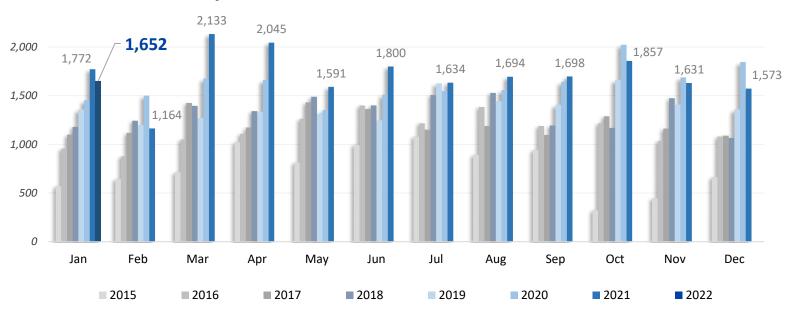




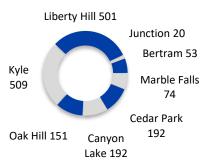
System Growth

Line Extensions Completed

2019: 16,640 2020: 19,458 2021: 20,592 2022 YTD: 1,652



Line Extensions Per District



Miles of Distribution Line:

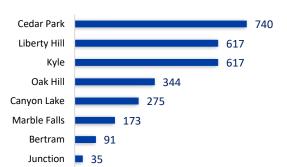
Underground: 6,400 (27%) Overhead: 17,462 (73%)

23,862 Total:

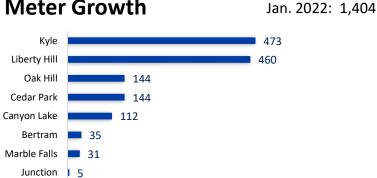


Member Growth

Jan. 2022: 2,892

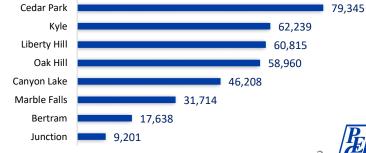






Meter Totals

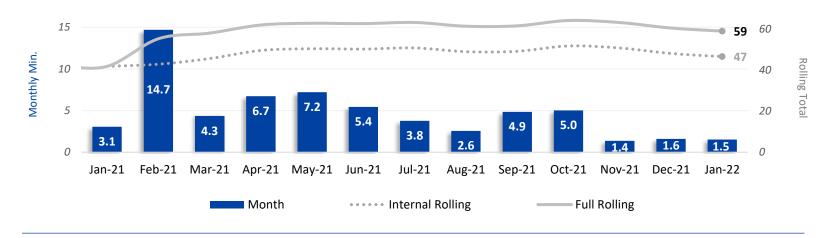
Jan. 2022: 366,120



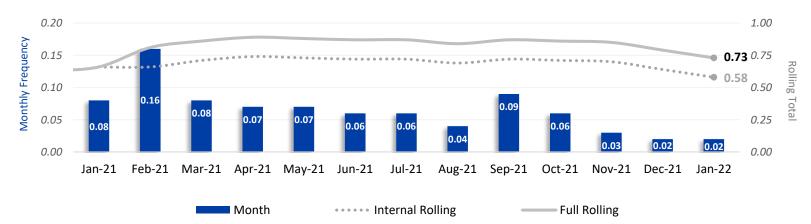


Reliability

System Average Interruption Duration Index (SAIDI)



System Average Interruption Frequency Index (SAIFI)







February Weather Front

Pre-Event Preparation

- All district operations were on standby with continuous shift schedules assigned.
- Districts and vegetation management had contractor crews ready for support.
- Fuel supplies and winter vehicle gear fully stocked in all districts and HQ.
- Transportation, food and lodging preparations made in all districts and HQ.
- Member Relations readied shifts for continuous phone support and escalations.
- EOP activation protocols initiated and Incident Command Team on stand-by.

Reliability Performance

- A few small outages the night of Wed. Feb 2. and were restored within an hour.
- Early morning crews were prepared in the districts to respond to any issues.
- At peak, a 15 min. interval occurred with less than 4K outages.
- As of 3pm, zero outages were pending.
- The EOP was never activated, operated at Alert and Preparedness level only.
- Overall, the staff and system performed very well. The experience from last year and the improvements added since, prepared PEC very well for this event.



February 3rd Weather Forecast:

1"-3" Rainfall:

0.3" Freezing Rain:

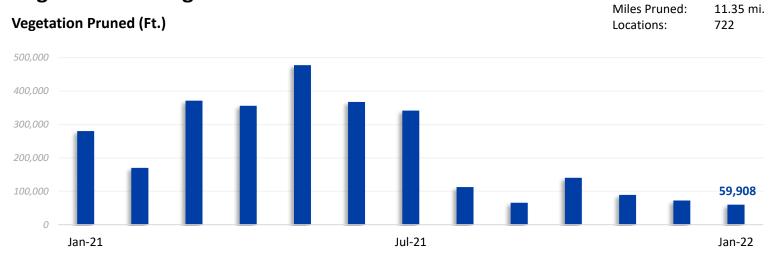
0.2" Sleet:

mid-teens (16°) Temps:

Wind chills: single digits (5°)



Vegetation Management



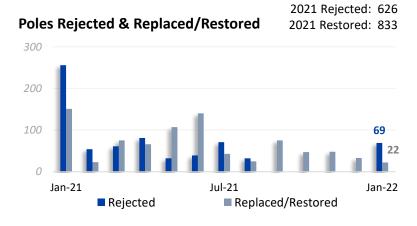


Pole Testing & Treatment (PTT)

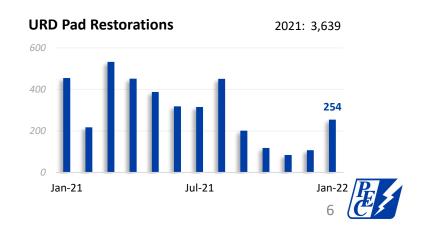
Poles Inspected & Treated 2021 Treated: 30,513

8,000
6,000
4,341
4,000
2,000
Jan-21
Jul-21
Jan-22
Treated

2021 Inspections: 28,523



URD Pad Mounts

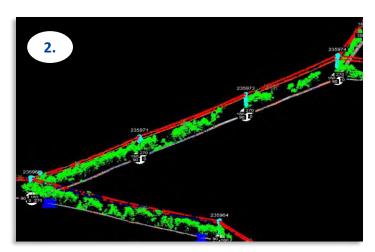


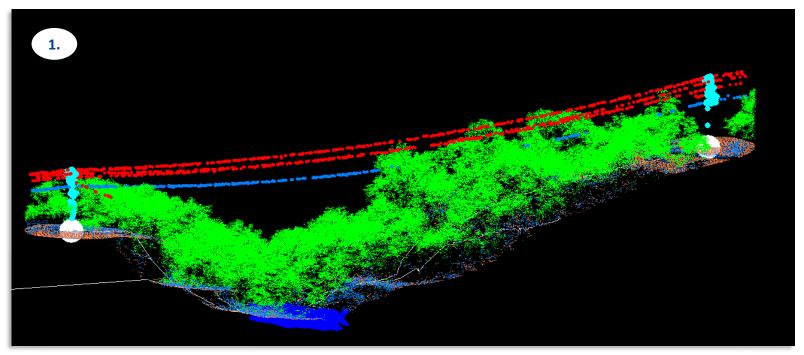
LiDAR Technology

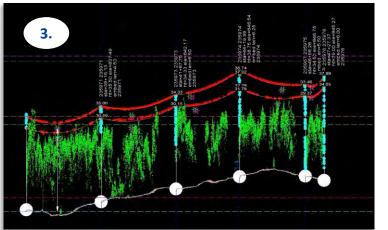
Provides highly accurate snapshots of PEC infrastructure for prioritizing and scheduling maintenance.

Examples of data collected:

- 1. Detailed profile of an elevation change.
- 2. 3D view of a span.
- 3. 2D profile with pole data, conductor, trees.
- 4. IBM's weather forecast technology shares road conditions (pink represents ice observed on roads).





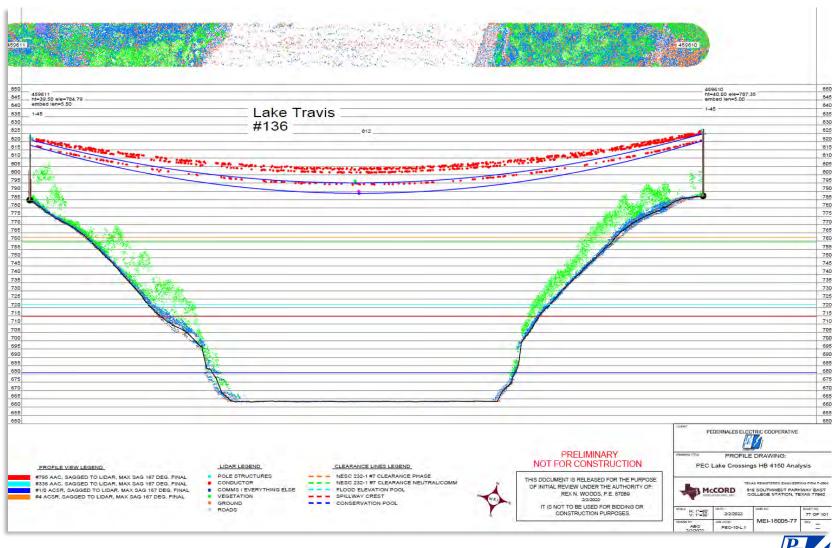




LiDAR - Additional Uses

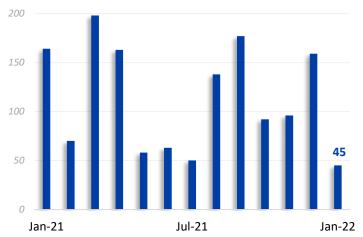
This data also supports other PEC projects. For example, the recent U.S. House Bill 415 requiring electric utilities to identify elevation and sag over water crossings.

Provided here is an example of identified elevation levels of PEC equipment over Lake Travis.

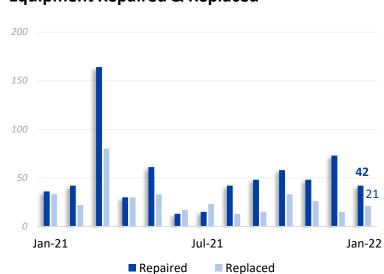


Technical Services

Equipment Inspections 2021: 1,429



Equipment Repaired & Replaced

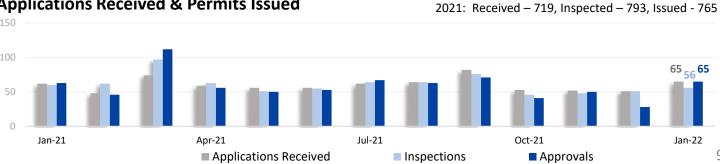






Pole Contacts

Applications Received & Permits Issued



2021: 970

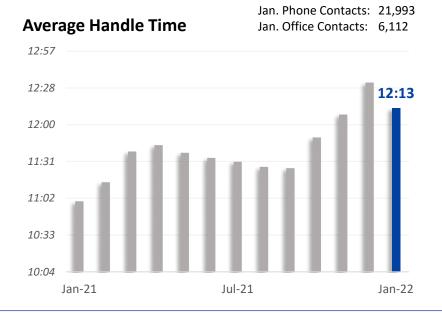


Member Relations

Average Residential Usage



Member Contacts

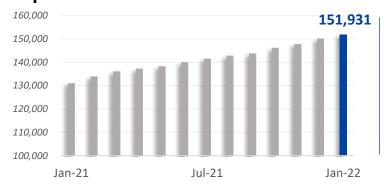


THINK LIKE A MEMBER™

Contact Types	2021: 419,277 Contacts	
Main Contact Types	Jan. Totals	
Service Request	8,365	27%
Payment	6,746	21%
Billing Inquiry	4,266	14%
Payment Arrangement	2,405	8%
Account Update	1,768	6%
Autopay Deposit Waiver	1,499	5%

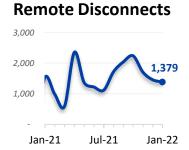
2021 Audits:

Paperless Enrollments



Collections

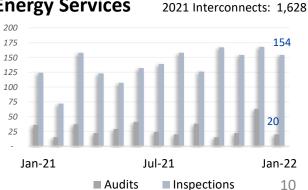
One Holiday with No Collection Activity



Aged Balances



Energy Services





362

Transmission Projects

Projects Completed:

- Andice to Pipeline to Seward Junction Fiber Addition (Liberty Hill):
 - 8.4 miles, replaces Shield Wire with OPGW in coordination with breaker addition at Pipeline.
 - Completed Dec. 2021.
- McCarty Lane to Hunter (Kyle):
 - Conductor upgrade in conjunction with LCRA TSC upgrade of McCarty Lane to RR12.
 - Completed Jan. 2022.

Projects in Construction:

- 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.
 - Construction to continue through Spring 2022.
- Whitestone Blockhouse Leander line upgrade (Cedar Park):
 - 5.25 miles, rebuild existing 138 kV line to 440 MVA capacity.
 - Finalizing supplemental easements. Completion scheduled for Q2 2022. Delays in construction between Leander and Blockhouse have put the planned May completion at risk.



Transmission Projects

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.
 - ERCOT RPG review under way, construction expected to begin in Q3 2022.
- **Dripping Springs to Rutherford Relocation** (Oak Hill):
 - On hold pending direction from developer and resolution of complaint filed at PUCT.
- Lago Vista to Nameless to Leander Transmission Overhaul (Cedar Park and Liberty Hill):
 - Coordinating with Substation Design for cut-in to Hero Way Substation.
- 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 January 2023.
 - Scope and estimate being developed to request budget.
- Miller Creek to Henly (Oak Hill):
 - Respacing between shield wire and conductor to reduce outage vulnerability during extreme weather.
 - Scope and estimate being developed to request budget.



Substation Projects

Projects Completed:

- **138KV Circuit Switcher Upgrades** (Various districts):
 - Construction at each location (7) to replace end-of-life transformer circuit switchers.
 - Completed Dec. 2021.
- **Andice to Pipeline to Seward Junction Remote Ends** (Liberty Hill):
 - Supporting transmission line upgrade project by upgrading and adding line relay panels.
 - Completed Dec. 2021.
- **Graphite Mine** (Bertram):
 - LCRA project to install new switch yard at to PEC substation with new 138KV ring bus and breakers.
 - During LCRA's project PEC replaced T1 circuit switcher.
 - PEC mobile supported load during the project.
 - Completed PEC's portion Dec. 2021.
- **Blockhouse & Leander Remote Ends** (Leander):
 - Supporting line upgrade of T326 with switch replacements and line relay panel upgrades.
 - Completed Jan. 2022.



Substation Projects

Projects in Construction:

- Whitestone Bus Upgrade & T469 Remote Ends (Cedar Park):
 - Upgrade 138KV Bus to 2000 Amp and terminal upgrades to support T469 line upgrade.
 - Whitestone 138KV Bus upgrade to 4" pipe, switch and line relay panel replacements.
 - Blockhouse 138KV switch replacements and line relay panel upgrades.
 - Scheduled completion in May 2022.
- Wirtz to Flatrock to Paleface (Marble Falls):
 - Supporting transmission line upgrade project.
 - Wirtz 138KV breaker replacements, line relay, and breaker failure panel replacements.
 - Flatrock 138KV breaker and line relay panel additions.
 - Paleface 138KV Bus reconfiguration, 138KV switch replacements, and new line relay panels.
 - Completion in Apr. 2022.
- **Substation Satellite Clock Installations** (Various Locations):
 - Time synchronization for digital relays.



Substation Projects

Projects in Engineering:

Mobile Substation Upgrades:

- Mobile #1: Upgrade circuit switcher to 40KA and 25 KV breaker and relaying to SEL digital protection relays.

- Mobile #2: Upgrade circuit switcher to 40KA and SEL digital protection relays.

- Mobile #3: Upgrade circuit switcher to 40KA.

• 138KV Breaker Upgrades:

Sattler: Upgrade OCBs 5580 & 5590 to SF6 Gas Breakers.
 Cranes Mill: Upgrade OCBs 8580 & 8590 to SF6 Gas Breakers.

- Buttercup: Upgrade 138KV Operating Bus to Double Breaker/Double Bus configuration.

- Marshall Ford: CBs 8020, 9170, & 9180. Replace control cables.

Copperas Cove Addition:

- Addition of T1 25KV Total Main Breaker.

Hero Way: New Substation.

Seward Junction: T3 Addition.

Kyle: T1 Upgrade to 46.7 MVA.



AMI Distribution

- The Project is 30% complete overall.
- Exchanges have been paused in the Eastern territory due supply shortages:
 - Will re-evaluate meter supply in early 2022 and adjust deployment, as necessary.
 - Project has transitioned to the Junction District to upgrade TWACS meters.

Eastern Territory Exchanges

• Large Power Members: 100%

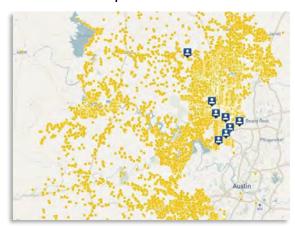
• Liberty Hill District: 100%

• Cedar Park: 38%

• Meters Exchanged: 105,000

• Letters & Emails: 166,000

Member Opt-Outs: 51



Western Territory Exchanges

Junction Exchanges: 57%

• Meters exchanged: 4,000

• Letters & Emails: 6,200

Member Complaints: 6







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.

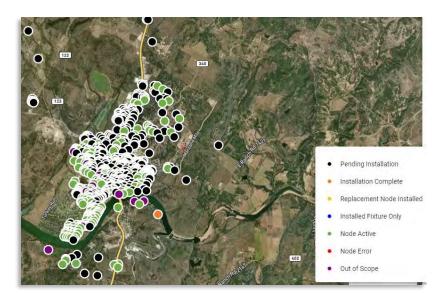
The lighting services project additionally includes:

- 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 as of Feb. 1:

• Lights Audited: 11,221

Lights Replaced: 2,589





Facilities

Cedar Park Access	The general contractor has mobilized and begun construction.	
Dripping Springs Renovation	Renovations as are complete from a water leak in the slab around the kitchen and bathroom areas, existing finishes were replaced.	
Johnson City Service Center Security Gate	Driveway widening and security gate upgrade at the Haley Rd site is complete. This project aligned the driveway with the city street for improved sight-lines and safety; add a second gate for improved ingress and egress; and improved security equipment to allow the gates to remained closed.	
Kyle Fleet Building & Warehouse	The project has been completed and turned over to the district for use.	
Leander Development	Building construction is in progress and on schedule.	
Marble Falls Training Center	Completed construction for additional restrooms.	



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