



Evergy & City of Prairie Village

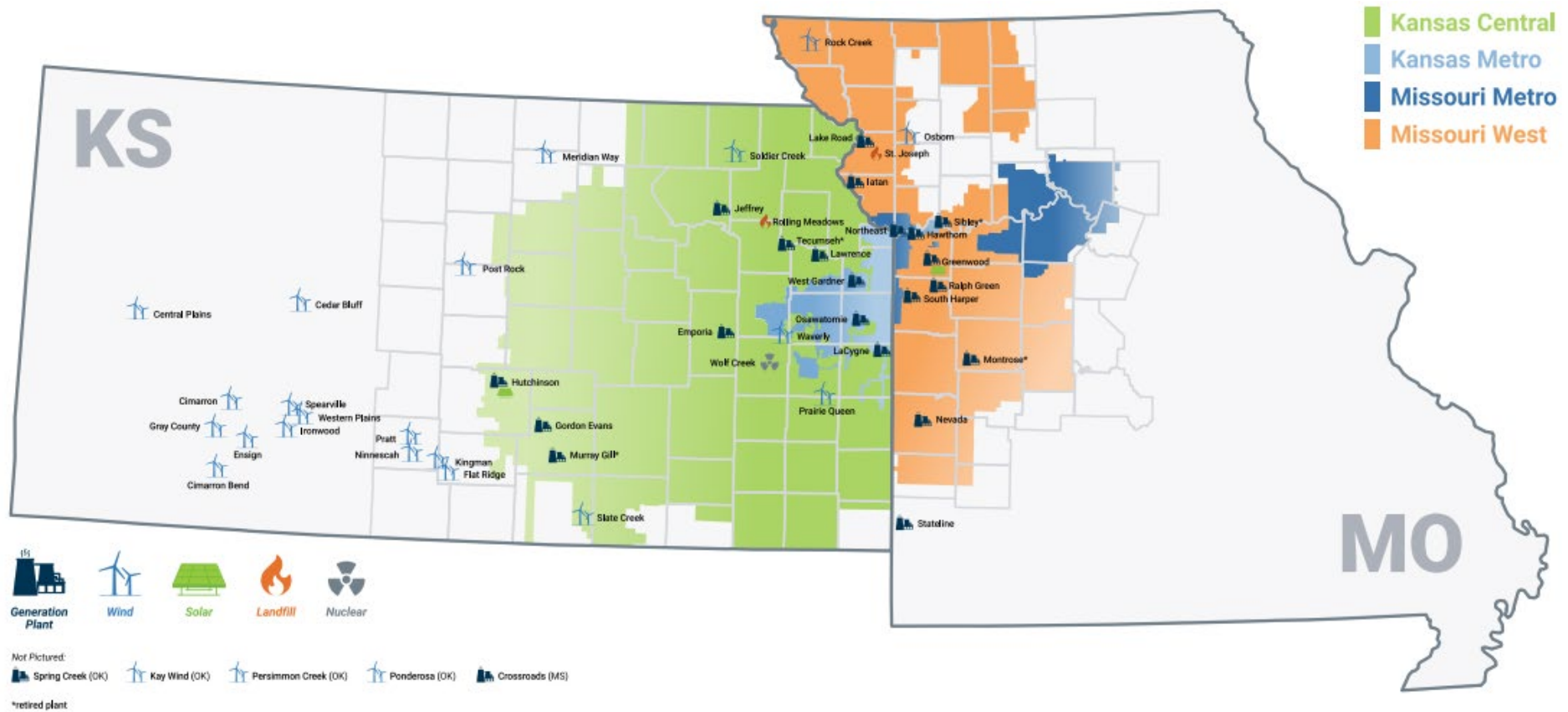
October 2024



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Evergy's Service Territory



Evergy Customer Profile

~1,500,000

RESIDENTIAL CUSTOMERS



~200,000

COMMERCIAL CUSTOMERS



~7,800

INDUSTRIAL CUSTOMERS



Rate Base **Kansas**  53%

Rate Base **Missouri**  32%

Rate Base **FERC**  15%

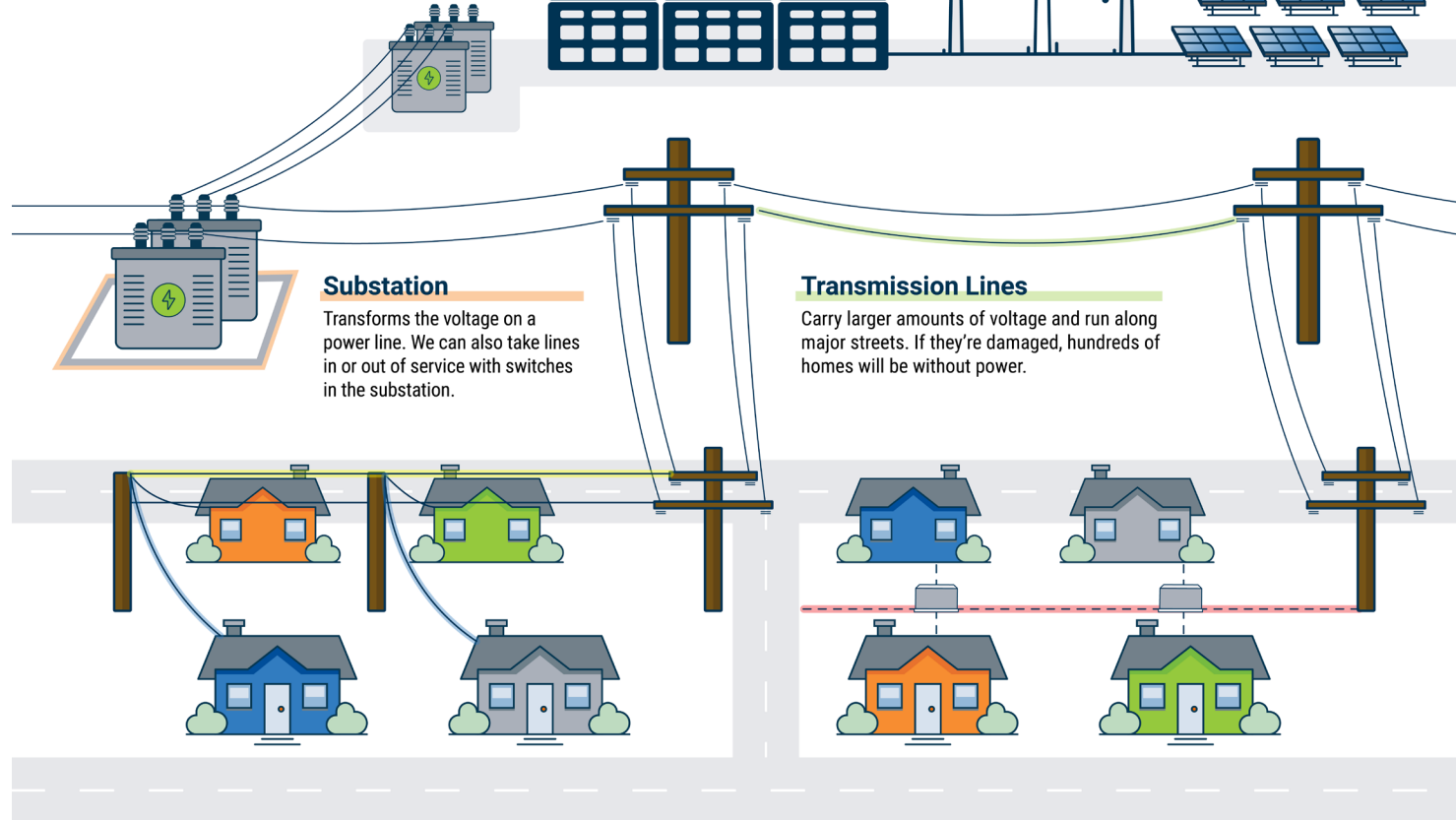
Statistics as of Q4 2023.



From Power Plant to Plug

Generation

Electricity is generated using fossil fuels (coal, natural gas, and petroleum), nuclear energy, and renewable energy sources.



Substation

Transforms the voltage on a power line. We can also take lines in or out of service with switches in the substation.

Transmission Lines

Carry larger amounts of voltage and run along major streets. If they're damaged, hundreds of homes will be without power.

Distribution Lines

Carry lesser amounts of voltage into neighborhoods, many times running behind groups of homes. Damage on these lines can cause transformers and fuses to trip or blow, causing anywhere from dozens or homes to a handful of homes to be darkened, depending on the device affected.

Service Line

Carries voltage at a level required to serve homes, and runs from primary or secondary line to the home. If damaged, only that home is affected.

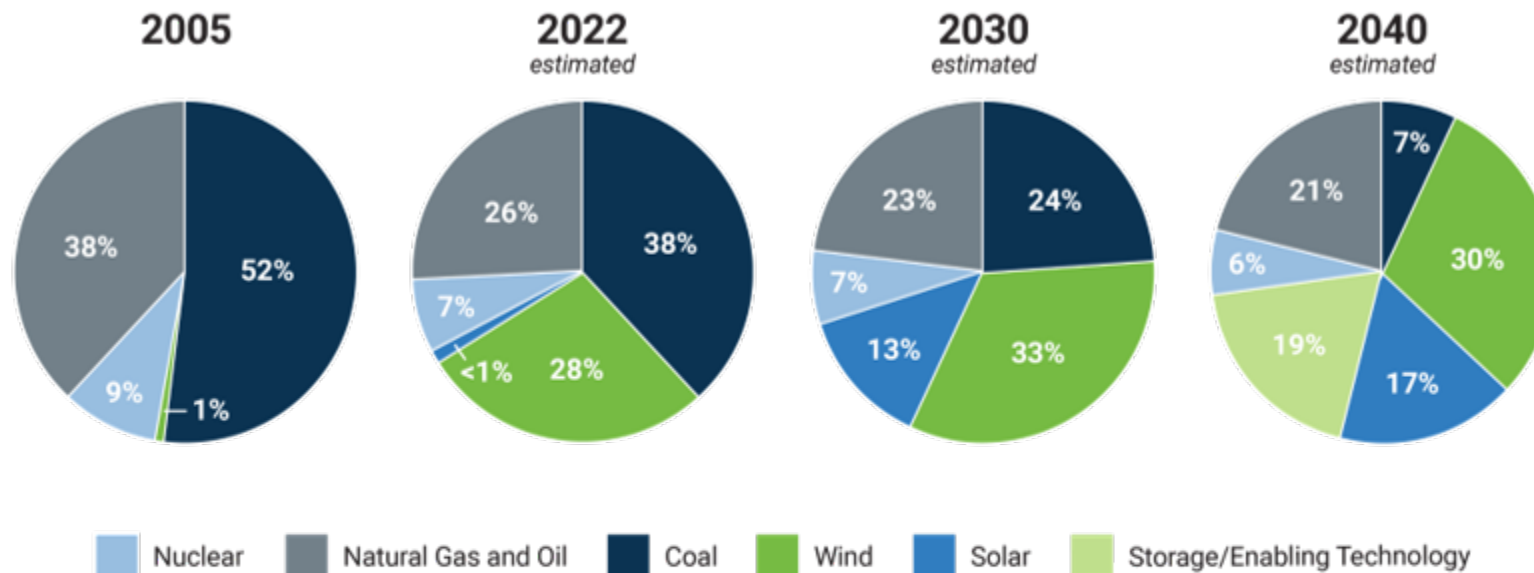
Underground Lines

Usually only affected when damage occurs at a substation or major feeder line. However, when outages occur, it may take longer to locate and make repairs.

Evergy's Energy Mix

With about 50% of our energy mix coming from emission-free sources, Evergy has a diverse energy mix that includes: wind, solar, natural gas, nuclear, biogas, hydro, and coal.

Generation Capacity by Fuel Type



Our goal is to achieve net-zero carbon emissions by 2045.

Generation Transition

2024 Preferred Plan



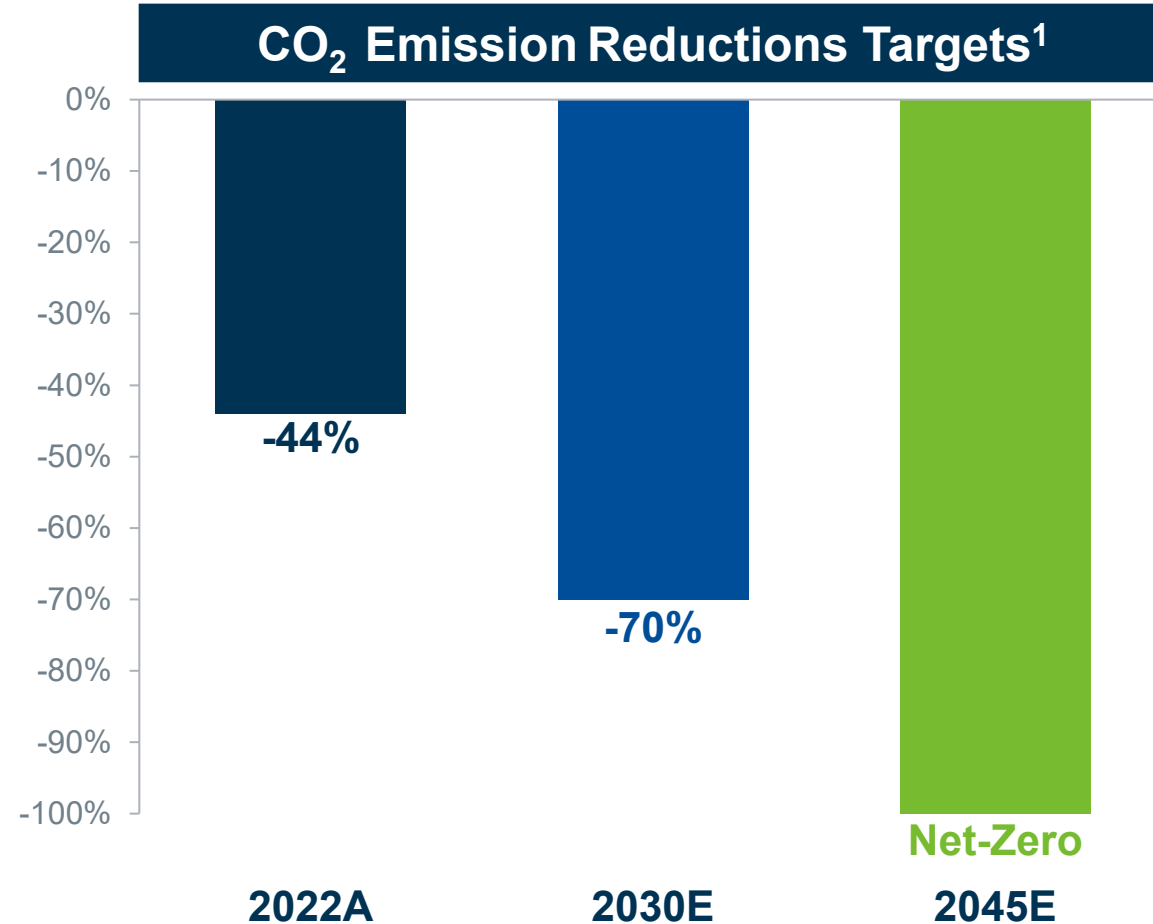
Legend



*Lawrence Energy Center 4 (107MW) retires and Unit 5 (373MW) transitions to natural gas only (338MW).
 **Preferred Plan includes a placeholder for an additional coal retirement in 2030 assumed to be Jeffrey Unit 2 (733 MW).



Future Carbon Reduction Goals



Note:

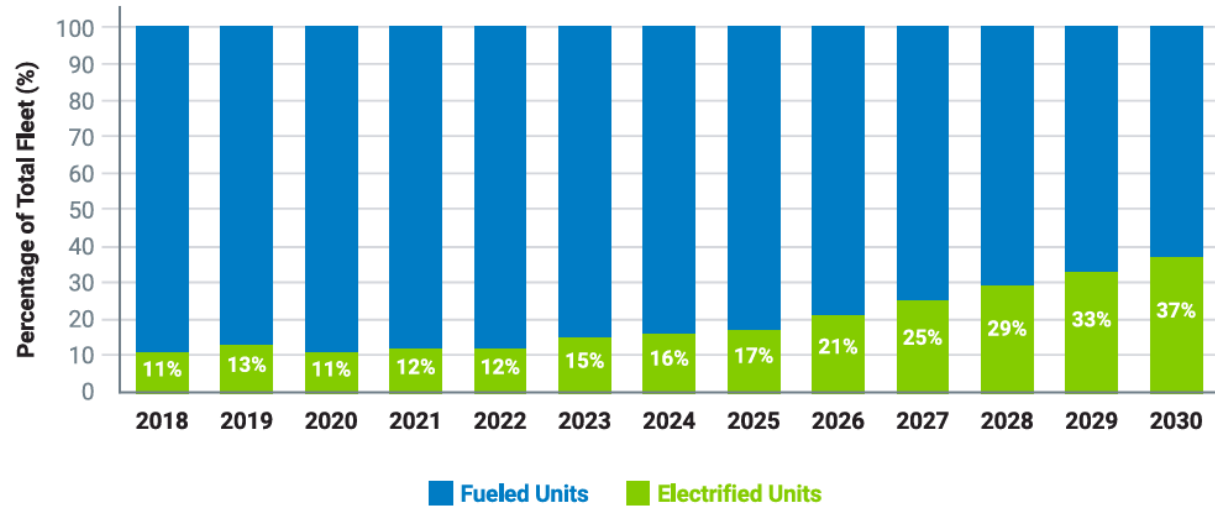
1. Targets vs. 2005 levels; the trajectory and timing of reaching Evergy's net-zero carbon emissions goal are dependent on enabling technology developments and supportive energy policies and regulations.



Sustainability Focus: Evergy Facilities and Fleet

Electric Vehicle Percentages of Total Fleet

Electrification projected to achieve 35% by 2030



2023-2030 percentages are estimates.

Manhattan Service Center	40 kW
Lawrence Service Center	39 kW
Shawnee Service Center	74 kW
Parsons Service Center	19 kW
Wichita Service Center	21 kW
Topeka General Office	10 kW
Evergy Connect	25 kW
Nevada Service Center	90 kW
Total: More than 315 kW of solar power installed on Evergy facilities	

Evergy is incorporating fleet electrification, sustainable building practices, and renewable energy systems in our facilities.

Affordability



**Cumulative rate change from 2017 through November 2023, the most recent reference point for comparisons based on EIA data.*

Reflecting focus on affordability, rate increases well below inflation and improving regional rate competitiveness



What can cause an outage

- Weather
 - More than 70% of power outages are weather-related
 - Storms
 - High winds
 - Lightning
 - Ice
- Animals
- Vehicle accidents
- Human error
- Equipment Failure
- Vegetation
 - Damage from weakened trees can result in a loss of power weeks after a severe-weather event
- Planned interruptions
 - Shorter outage periods are necessary to perform work on the lines

Tree Trimming Process

Evergy works year-round to manage the impact of trees on power lines. Our tree trimming program helps reduce the impact of vegetation on lines.

- Our specially-trained team of utility foresters, supervisors and contractors maintain a system-wide mileage of just **over 37,000 miles, with over 25,000 of those miles in Kansas**, which we inspect and address to eliminate potential issues.
- We let you know if maintenance is needed at your property with a door notice that provides more detail and contact information.
- Tree trimming guidelines consider the tree's proximity to power lines, size, species, health and growth rate. Based on regulations, we trim vegetation to create clearance between power lines and the canopy of a tree. We also consider trees or limbs that could blow or fall into lines.
- Crews generally visit circuits once every four to five years.

Requesting a Line Clearance

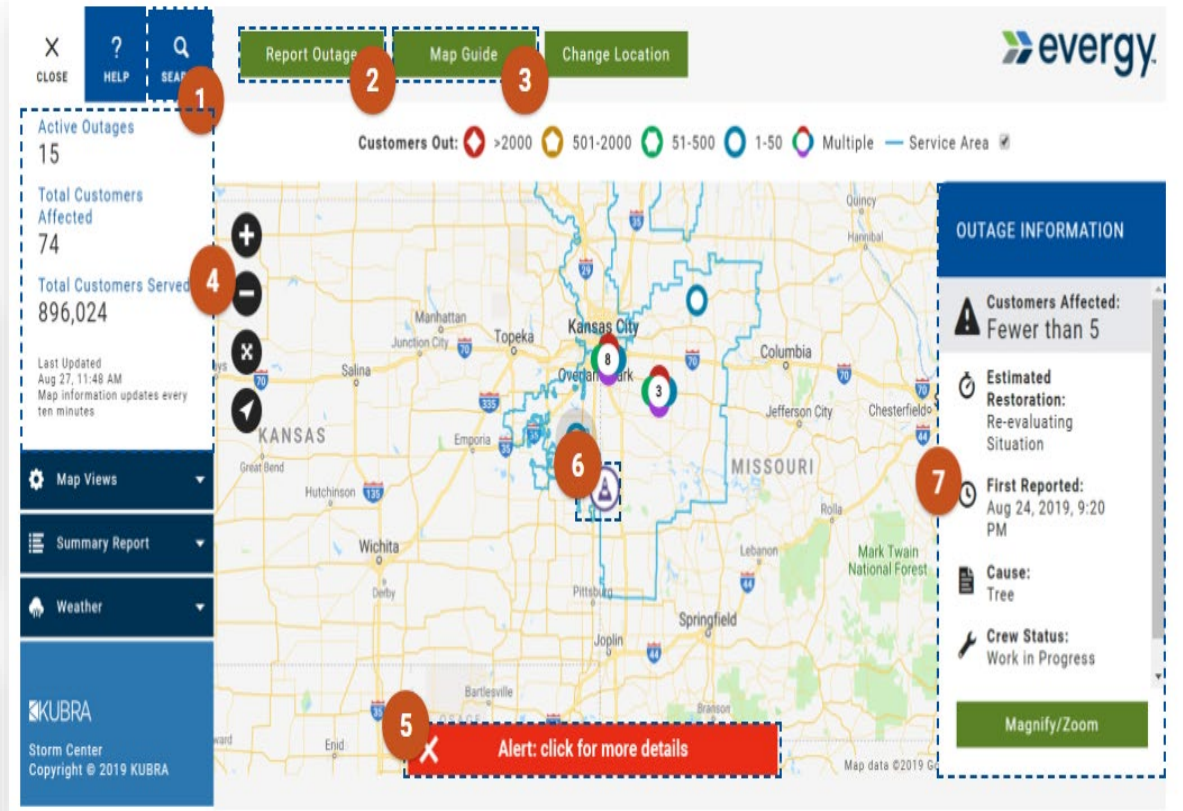
If you see a potential issue with vegetation on the lines that run from pole to pole near your house, please let us know with a line clearance request available at [evergy.com](https://www.evergy.com).

Restoration Process

- Restoring power is complex. How Evergy brings the community back online.
- Power sometimes returns in a different order than you'd expect. We have a process in place to address critical needs first then the largest number of customers as quickly and safely as possible.
 - ✓ As outage reports come in, troubleshooters and sometimes damage assessment crews are sent to investigate the outage cause. This is why you may see an Evergy vehicle come and leave your neighborhood without power being restored.
 - ✓ Crews then repair or replace equipment as needed, removing all hazards.
 - ✓ Many times, tree trimming crews must remove trees or tree limbs before power can be restored.
 - ✓ Following a major storm, sometimes it's a matter of completely rebuilding parts of the electrical system to restore services, which can take lots of coordination and many hours to complete.
- Our goal is to restore power to the largest number of customers as quickly and safely as possible.



Outage Map Features



1 Search

Search allows you to type in your address or general location. After typing in your information, click the location you want to view and the outage map will shift to your location and place a blue flag there.

2 Report Outage

The orange Report Outage button allows you to immediately report your outage online.

3 Map Guide

Map Guide takes you to a walk through of the outage map and its features, so you can use it with ease.

4 Tools

The Tools section shows you active outages, customers affected and total customers served. It also allows you to switch Map Views from locations to city, county or zip code. The Summary Report gives a table-like breakdown of customers affected and served by state, which you can change to city, county or zip code view. Lastly, the Weather tool let's you view or loop the radar to see what's currently going on in your area.



Outage Map Features

5 Alert Banner

The Alert Banner appears in a situation where you may need to know widespread outage information or updates. You can click on the banner to read more information.

6 Icon

An Icon may appear on the map for things like a hazard, dry ice truck (in summer outage situations), warming centers (in winter outage situations) or relevant photos of crews and outages.

7 Outage Info

When you click on an outage within the map, you'll be presented with Outage Info that shows your estimated restoration time (as long as there's not a severe storm or outage situation preventing us from knowing a restoration time). We'll also show you when your outage was reported, a cause (if it's been identified) and if a crew is on their way or working on your outage.

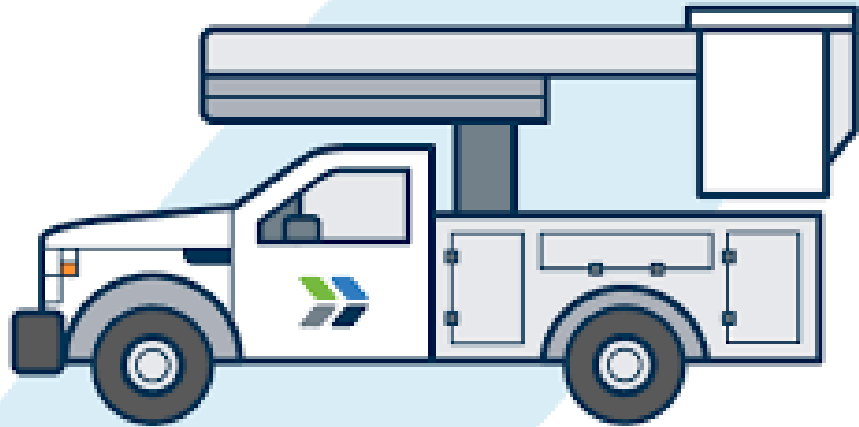
The screenshot displays the Evergy Outage Map interface. At the top, there are navigation buttons: 'CLOSE', 'HELP', and 'SEARCH'. Below these are three main action buttons: 'Report Outage', 'Map Guide', and 'Change Location'. A legend indicates 'Customers Out' with color-coded circles: red for '>2000', yellow for '501-2000', green for '51-500', blue for '1-50', and purple for 'Multiple'. A 'Service Area' checkbox is also present. The map shows a region including Kansas and Missouri, with various cities and service areas marked. On the left, a sidebar provides summary statistics: 'Active Outages: 15', 'Total Customers Affected: 74', and 'Total Customers Served: 896,024'. It also shows the last update time and frequency. Below the map, there are sections for 'Map Views', 'Summary Report', and 'Weather'. At the bottom left, the 'KUBRA Storm Center' logo and copyright information are visible. On the right, an 'OUTAGE INFORMATION' panel is open, displaying details for a selected outage: 'Customers Affected: Fewer than 5', 'Estimated Restoration: Re-evaluating Situation', 'First Reported: Aug 24, 2019, 9:20 PM', 'Cause: Tree', and 'Crew Status: Work in Progress'. A 'Magnify/Zoom' button is at the bottom of this panel. A red alert banner at the bottom of the map reads 'Alert: click for more details'. Numbered callouts (1-8) point to specific UI elements: 1 (Close), 2 (Report Outage), 3 (Map Guide), 4 (Map Views), 5 (Alert Banner), 6 (Hazard Icon), 7 (Outage Info Panel), and 8 (Search).

Frequent Outage Investigation Process



- Contact Customer Care Center and request a frequent outage check for your address
- The Customer Care Center forwards the complaint to the local office
- A team will review the outage causes looking for a common cause
- Personalized phone call to the customer
- Teams will cross-reference with previously identified projects
- We will patrol if necessary and this can be broken into multiple work groups
- If an issue is found, we will design & sponsor system improvement jobs through the construction process
- Finally, we will follow up with the customer on our plans

Outage Alerts



- Stay connected and informed with text and email alerts.
- If you want to receive information or proactive alerts about your outage status, turn on text and/or email alerts in your preferences. Here's how:
 - Make sure you have an online account (register for an account if needed)
 - Toggle text and/or email alerts on in your preference 'Alerts'
 - For text alerts, you can text HELP at anytime for general help. And to unsubscribe, head back to preferences and toggle text or email outage alerts off.
- You can also toggle on bill reminders (text or email) in the same spot, using the same steps.

Contacting Evergy

Emergency and Outage Reporting

1-888-LIGHTKC
(1-888-544-4852)

Online at www.evergy.com

Service-related or billing questions

816-471-5275
888-471-5275

Discover self-serve
options and
information online at
www.evergy.com



Report Outage Online

Report your outage online with
ease.

Report Online



Report Outage by Phone

Click "Call Now" below to directly
call our outage number by phone.

Call Now



Prairie Village Recent Outages

Johnson County



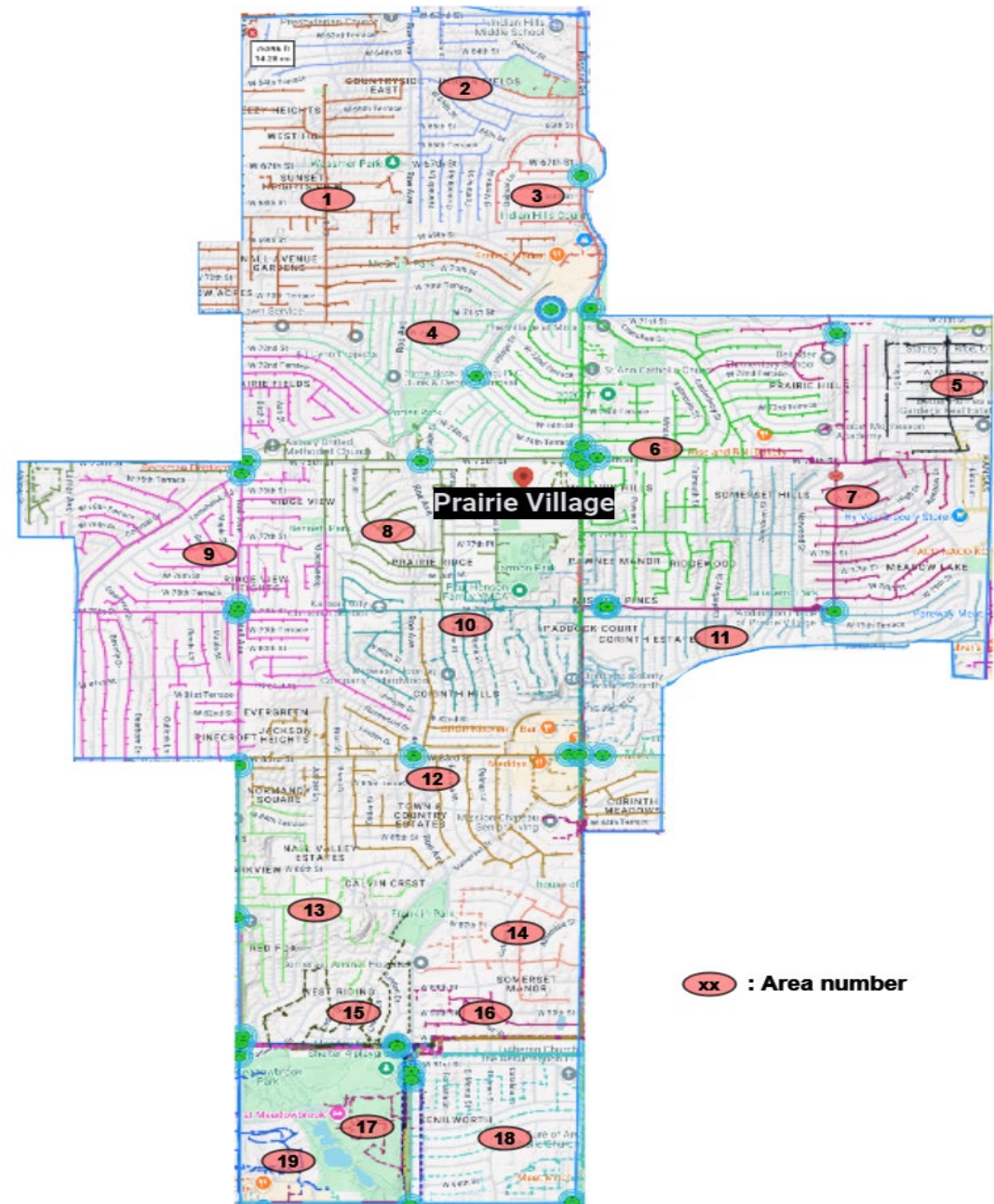


Outline

- Tree trimming cycle
- Large recent outages
- Q&A

Tree trimming cycles

Area #	Previous trim	Next trim
5	2022	2025
10	2019	2025
4	2020	2025
6	2019	2025
7	2020	2024
8	2017	2024
3	2018	2027
18	2023	2028
1	2020	2025
2	2020	2025



Note: This trimming cycle is subject to change based on the outage history of 2024. A revised schedule of circuits by is expected to be ready by November 1.



Large recent outages

1. Outage on 08/31/2024

Map of the outage:

Date/time of outage:

-08/31/2024, 14:16:00 – 15:09:00

Number of customers out

-1002 customer

Duration of outage

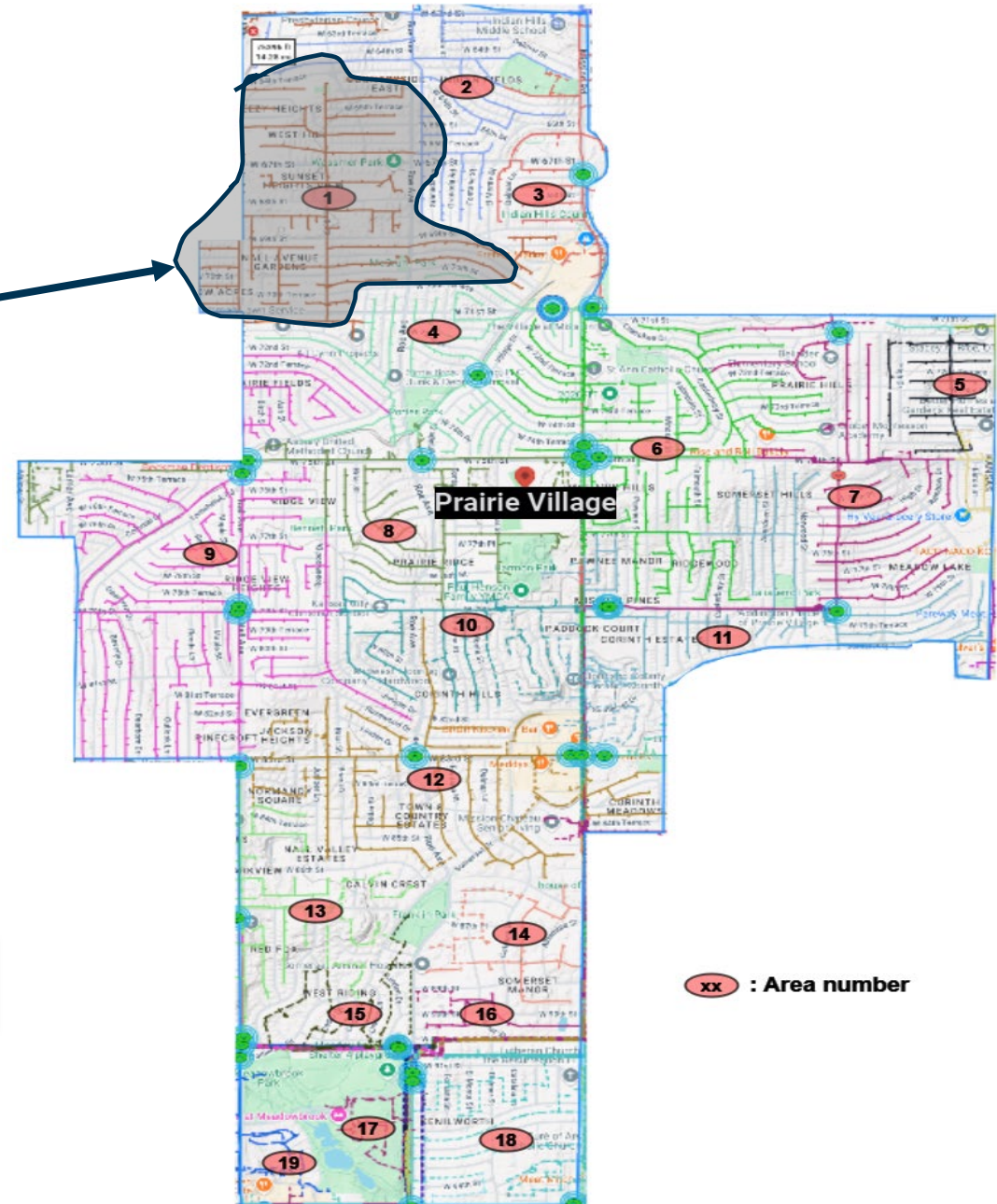
-53 Min

Cause of outage

-Equipment failure, upstream switch

Other outages in 2024:

Year	Off time	Restore time	Cause	Duration (Min)	Customers out
2024	05/19/2024 22:43:38	05/20/2024 02:30:00	STORM	226	1201
2024	01/05/2024 09:17:29	01/05/2024 10:09:56	EQUIPMENT FAILURE	52	1261





Large recent outages

2. Outage on 05/21/2024

Map of the outage:

Date/time of outage:

-05/21/2024, 12:32:00 – 15:18:00

Number of customers out

-78 customer

Duration of outage

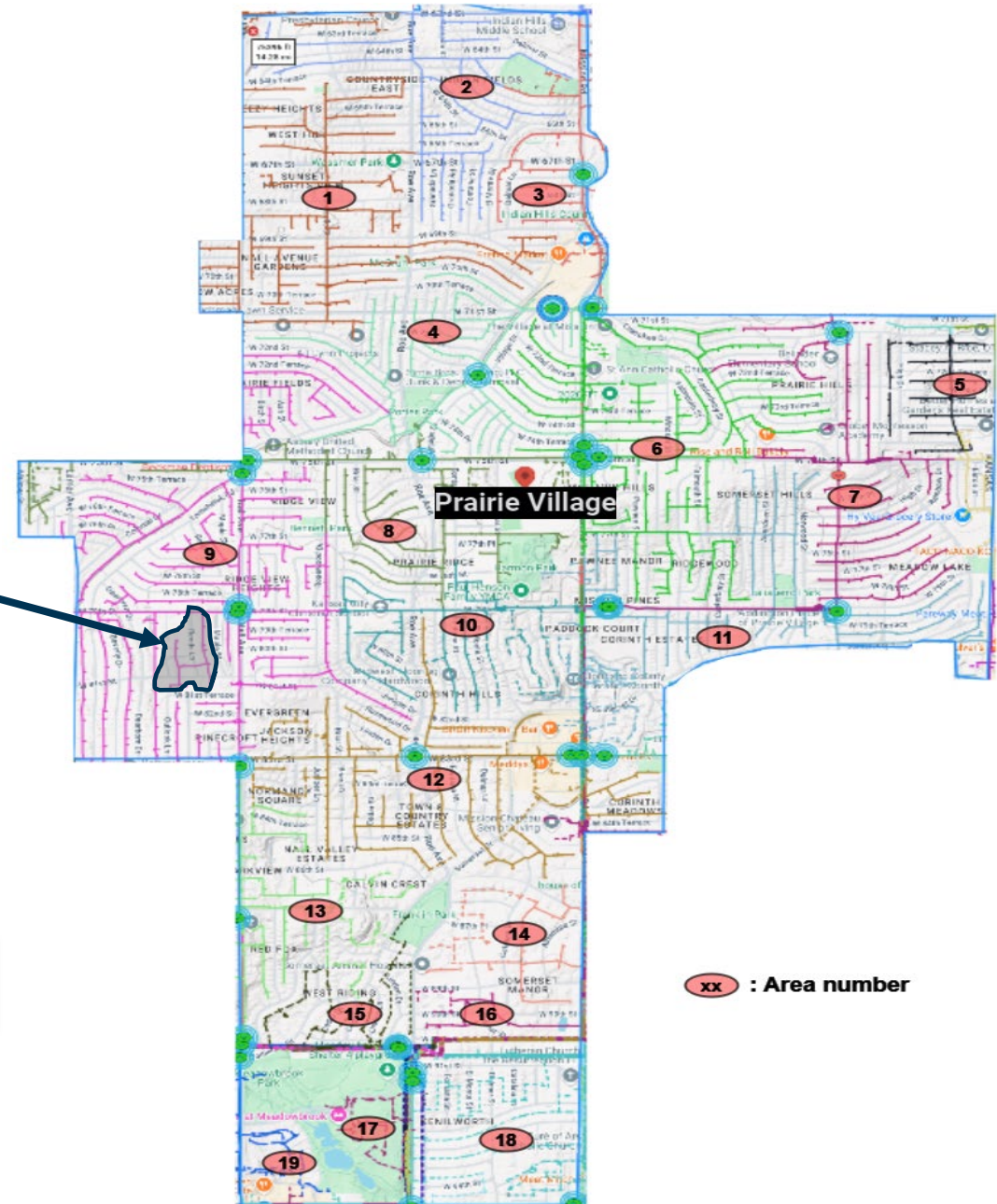
-166 Min

Cause of outage

-Storm, upstream switch

Other outages in 2024:

Year	Off time	Restore time	Cause	Duration (Min)	Customers out
2024	07/31/2024 22:47:00	08/01/2024 20:43:02	STORM	1316	29
2024	07/31/2024 22:44:40	08/01/2024 12:30:33	Vegetation	826	9





Large recent outages

3. Outage on 06/11/2024

Map of the outage:

Date/time of outage:

-06/11/2024, 03:46:38 – 04:26:12

Number of customers out

-1267 customer

Duration of outage

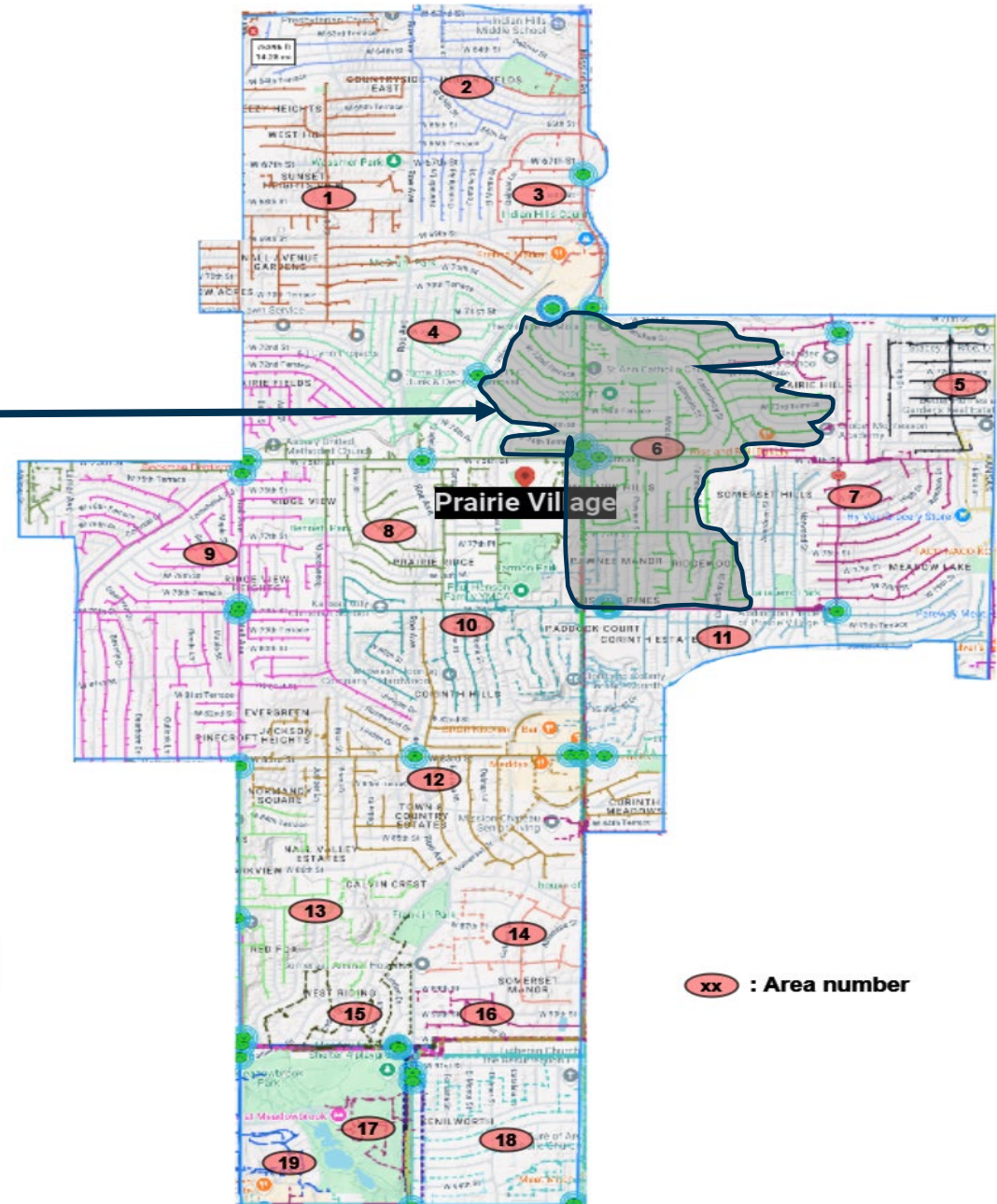
-40 Min

Cause of outage

-Equipment failure, breaker operation

Other outages in 2024:

Year	Off time	Restore time	Cause	Duration (Min)	Customers out
2024	05/25/2024 23:05:00	05/27/2024 15:40:55	STORM	2436	9





Large recent outages

4. Outage on 08/14/2024

Map of the outage:

Date/time of outage:

-08/14/2024, 16:42:00 – 17:20:07

Number of customers out

-1092 customer

Duration of outage

-38 Min

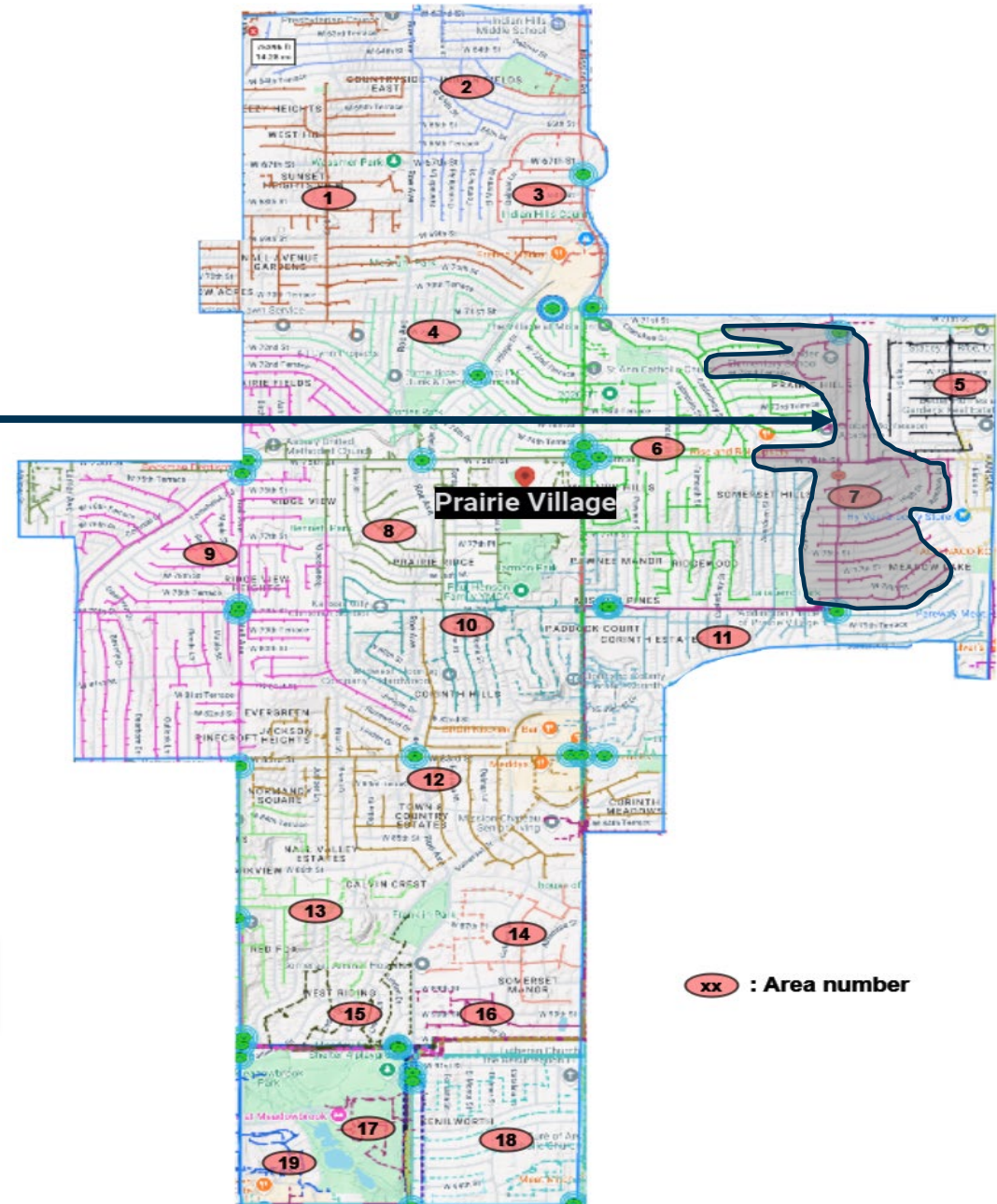
Cause of outage

-Vegetation, open recloser

Other outages in 2024:

Year	Off time	Restore time	Cause	Duration (Min)	Customers out
2024	08/11/2024 21:25:00	08/11/2024 22:29:00	STORM	64	712
2024	05/25/2024 23:03:05	05/26/2024 05:08:00	Vegetation	1092	365

Note: circuit is scheduled for tree trimming this year.





Large recent outages

5. Outage on 01/09/2024

Map of the outage:

Date/time of outage:

-01/09/2024, 03:40:06 – 04:55:17

Number of customers out

-748 customer

Duration of outage

-75 Min

Cause of outage

-Vegetation, terminal pole

Other large outages in 2024:

-None

