

**BEFORE THE PUBLIC SERVICE COMMISSION  
OF THE STATE OF MISSOURI**

In the Matter of the Compliance of KCP&L Greater )  
Missouri Operations Company with Certain ) File No. EO-2019-0045  
Requirements Related to SB 564 and Related Matters )

In the Matter of the Compliance of Kansas City )  
Power & Light Company with Certain Requirements ) File No. EO-2019-0047  
Related to SB 564 and Related Matters )

**NOTICE OF STAKEHOLDER PRESENTATION**

COMES NOW, Evergy Missouri Metro, Inc. d/b/a Evergy Missouri Metro (“Evergy Missouri Metro”) and Evergy Missouri West, Inc. d/b/a Evergy Missouri West<sup>1</sup> (“Evergy Missouri West”) (collectively, the “Company”) and for their Notice, state as follows:

1. On March 28, 2024, the Company held a presentation for stakeholders related to Evergy Missouri Metro’s and Evergy Missouri West’s respective annual and five-year capital investment plans previously filed in the above-captioned dockets. A copy of the presentation is attached hereto as **Exhibit A**.

**WHEREFORE**, the Company files this Notice for the Commission’s information.

<sup>1</sup> Effective October 7, 2019 Evergy Metro Inc. d/b/a Evergy Missouri Metro adopted the service territory and tariffs of Kansas City Power & Light Company; and effective October 7, 2019 Evergy Missouri West, Inc. d/b/a Evergy Missouri West adopted the service territory and tariffs of KCP&L Greater Missouri Operations Company.

Respectfully submitted,

*/s/ Roger W. Steiner*

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Evergy, Inc.

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**Attorney for Evergy Missouri Metro and Evergy  
Missouri West**

**CERTIFICATE OF SERVICE**

I hereby certify that a true and correct copy of the above and foregoing document was served upon all counsel of record on this 29<sup>th</sup> day of March 2024, via e-mail.

*/s/ Roger W. Steiner*

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Roger W. Steiner



# Evergy Annual and 5-Year Capital Plans

*Empowering a Better Future*

Darrin Ives / Geoffrey Ley / Jason Humphrey /  
Ryan Mulvany

EO-2019-0045 & EO-2019-0047

Public Stakeholder Meeting

March 28, 2024





# State Policy Encourages Grid Mod And Renewables

## Policy Objectives of Missouri Senate Bill 564

**Enhance  
reliability,  
resiliency, and  
security**

A white icon of a utility pole with cross-arms and insulators, positioned at the bottom left of the dark blue rounded rectangle.

**Adapt to a  
changing  
generation  
landscape**

A white icon of a three-bladed wind turbine, positioned at the bottom left of the green rounded rectangle.

**Improve  
customer  
service**

A white icon of a house with a power button symbol inside, positioned at the bottom left of the orange rounded rectangle.



# Evergy's Capital Investment Plan (2024-2028)

## Improves reliability and resiliency

- Replace aged infrastructure
- Deploy enhanced automation and communication

## Maintains affordability

- Rate impacts planned to be below SB 564 limits
- Cost increases less than expected inflation

## Delivers cleaner energy

- Continue transition through coal retirement and renewable investments
- Deploy technology to enable distributed resources

## Improves customer experience

- Technology investment enables expanded digital, automated communications
- Investments in core systems maximizes benefit to customers

## Enhances economic development

- Improved cost competitiveness, reliability and sustainability to attract companies to the state
- Grid modernization capital expenditures drive economic growth

## Capital Plan Highlights

- Planning \$4.6B of infrastructure investment in Missouri 2024-2028
- More than 45% of 2024 spend will go directly to grid modernization
- 2024-2028 spend will include investment in renewables as informed by Evergy's Integrated Resource Plan

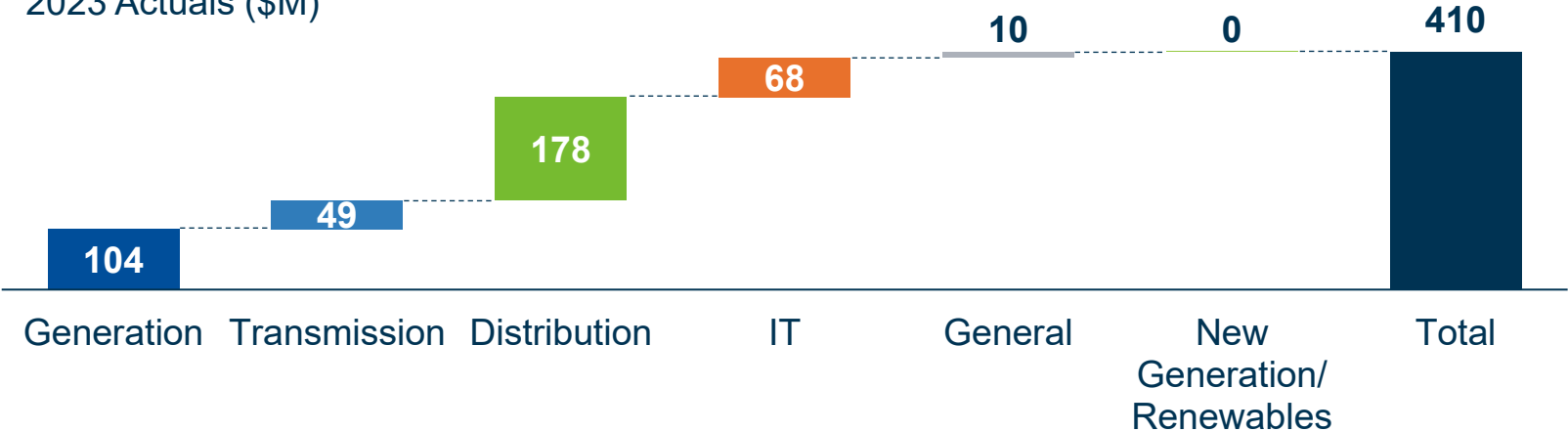
## 2023 Progress

- Invested over \$800 million in Missouri assets
- 50% spent on grid modernization projects

# 2023 Capital Investment Update

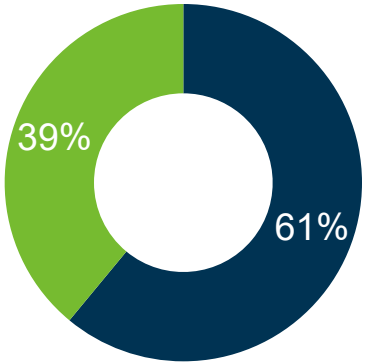
## Missouri Metro – Capital Investments

2023 Actuals (\$M)



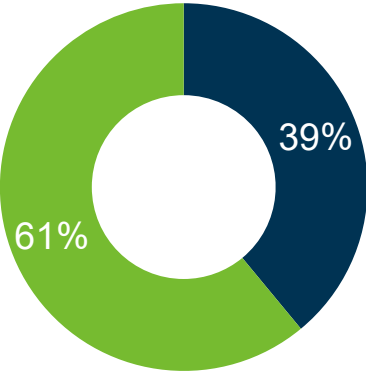
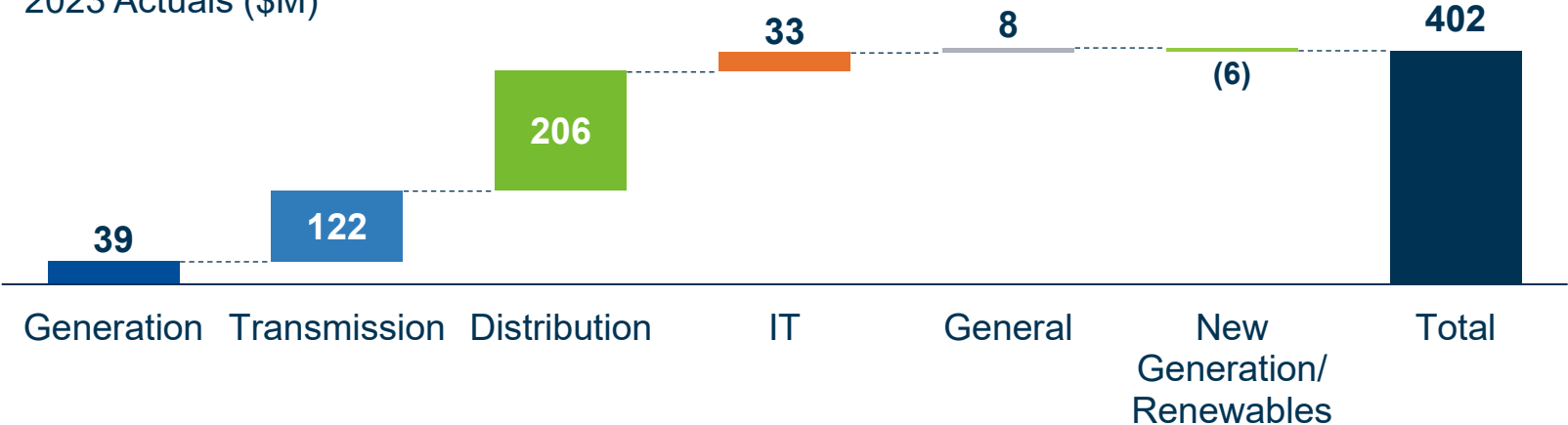
## Grid Modernization Investment

% of 2023 Actuals<sup>1</sup>



## Missouri West – Capital Investments

2023 Actuals (\$M)



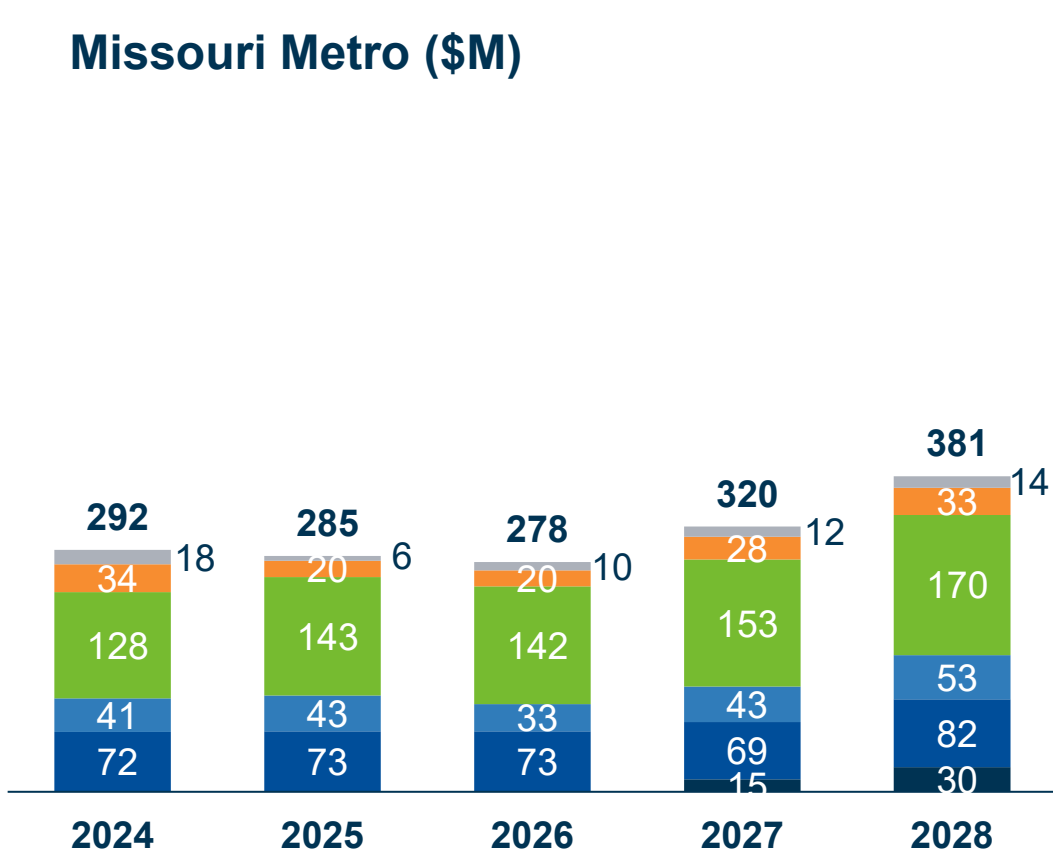
Grid Modernization Other



# Evergy's Five-Year Capital Plan

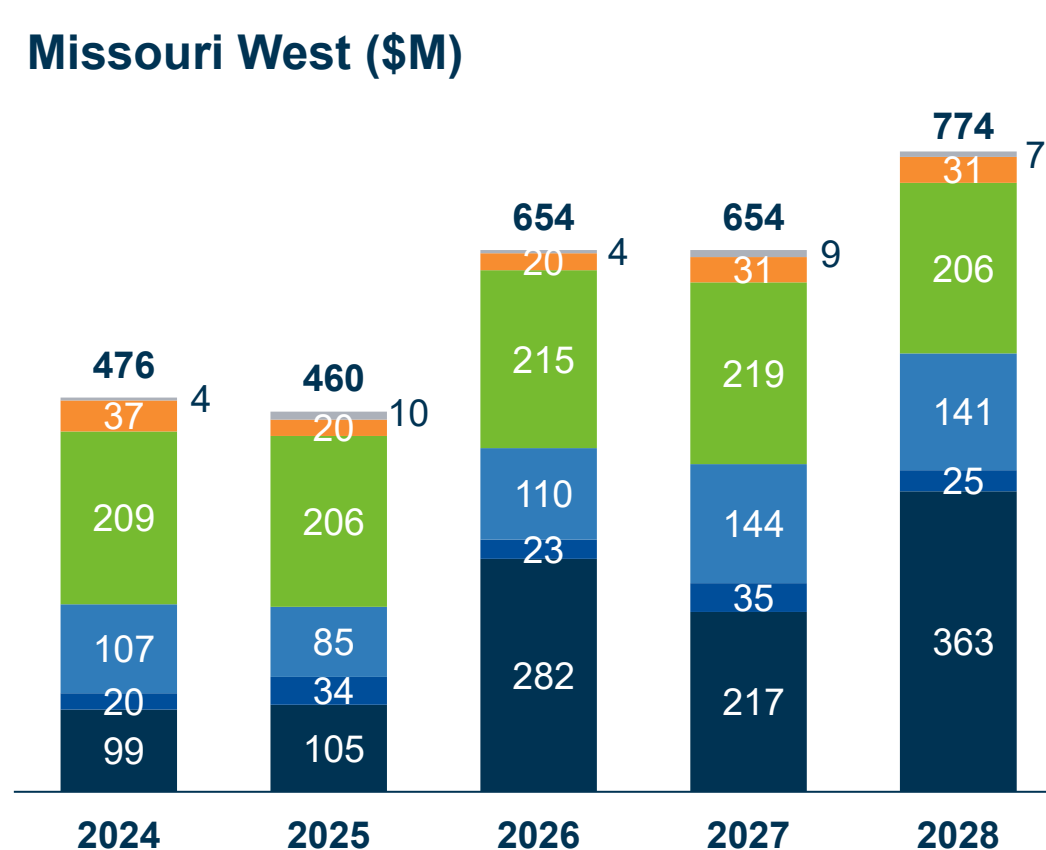
*Continued investment in Missouri, focus on grid modernization*

### Missouri Metro (\$M)



30% Grid Modernization in 2024

### Missouri West (\$M)



55% Grid Modernization in 2024

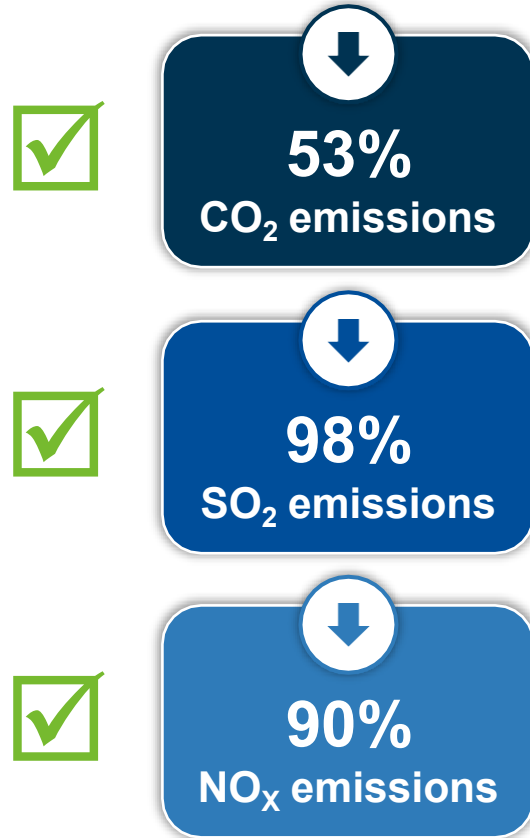
New Generation/Renewables
  Other Generation
  Transmission
  Distribution
  IT
  General



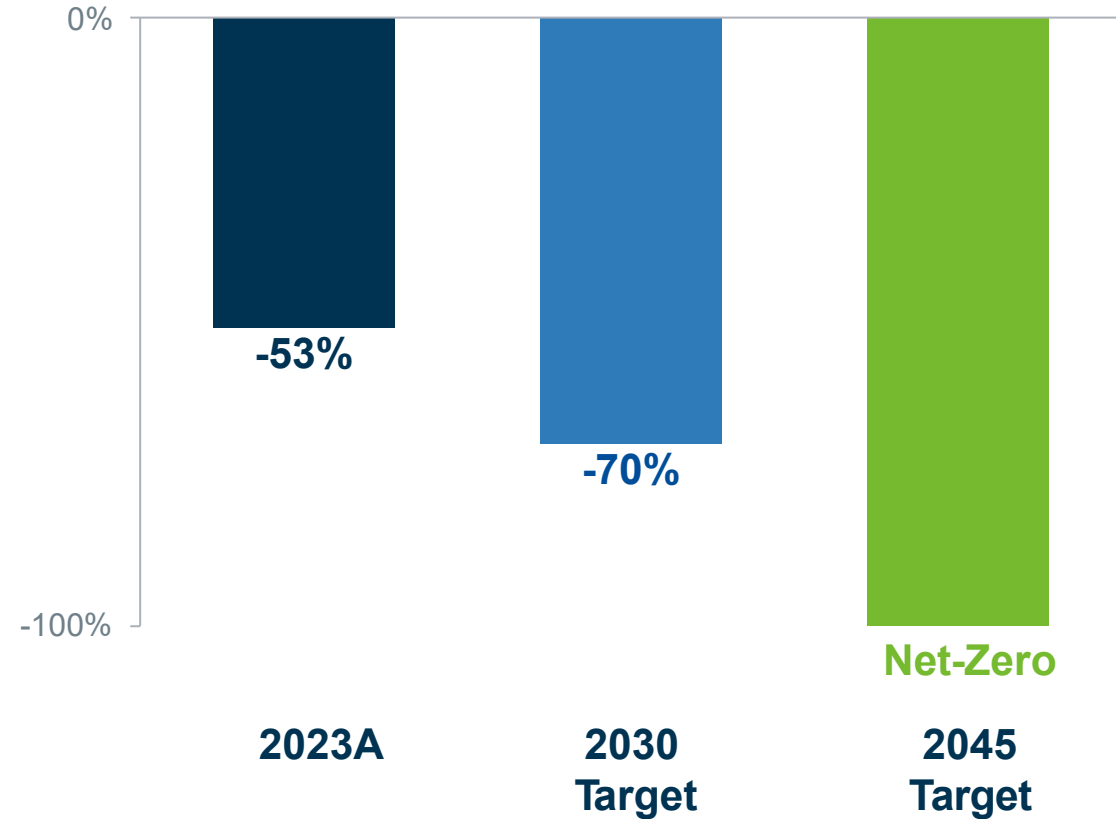


# Evergy, Inc.: Emissions Reductions Track Record & Targets

## Achieved Emissions Reductions Since 2005



## CO<sub>2</sub> Emission Reductions Targets<sup>1</sup>



**Track record of significant emissions reductions and targeting net zero carbon emissions by 2045**

1. Targets vs. 2005 levels; The trajectory and timing of reaching Evergy's net-zero carbon emissions goal are dependent on enabling technology developments, the reliability of the power grid, and supportive energy policies and regulation and could also be impacted by political, legal, and regulatory actions.





# ~150 MWac 2026 Missouri West Solar



## Project Overview

- The 2023 Integrated Resource Plan Annual Update identified ~150 MWac of 2026 solar as part of the preferred plan
- Evergy Missouri West has been pursuing projects from the 2023 All-Source Request for Proposal to fulfill that need
- Anticipate a Certificate of Convenience and Necessity (CCN) filing for one or more projects in 2024 to fulfill the identified need

## Project Milestones

- First Half 2023 – All Source RFP Short List
- 2023/2024 – Project negotiation
- 2024 – CCN Filing
- Late 2024/Early 2025 – Notification to proceed
- Late 2026 – Project Commercial Operation Date

*Missouri West plans to pursue ~150 MWac of solar in 2026 in support of the 2023 IRP preferred plan*

# Delivering On Grid Modernization Benefits



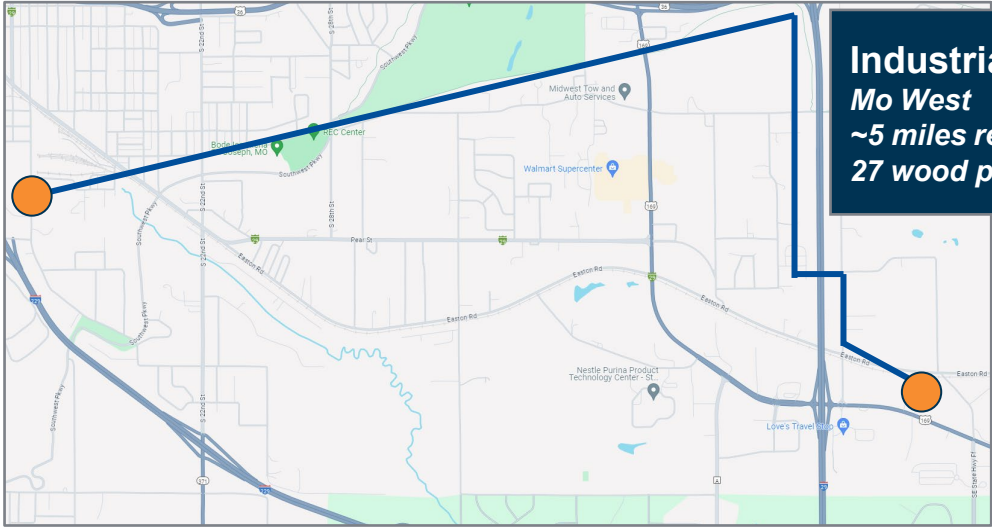
**Based on identified potential benefits, specific projects or programmatic asset replacements are developed to deliver on these benefits**



# Grid Mod Benefits: Strategic Transmission Line Rebuilds

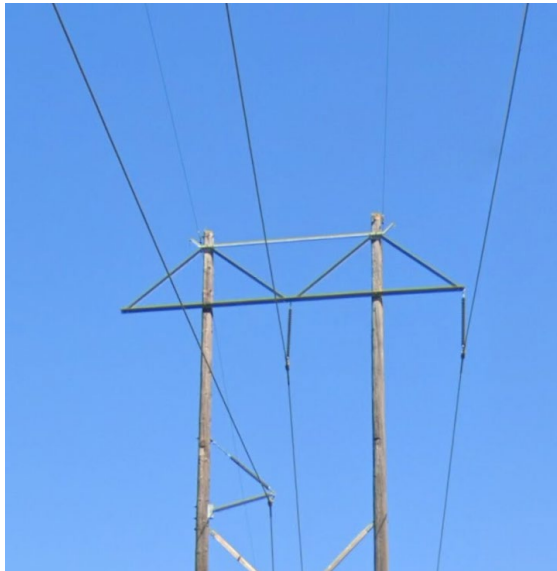


*Before*



*Illustrative route shown*

**Industrial Park – Mochila 161kV Line Rebuild**  
*Mo West*  
*~5 miles rebuild*  
*27 wood poles structures replaced with steel structures*



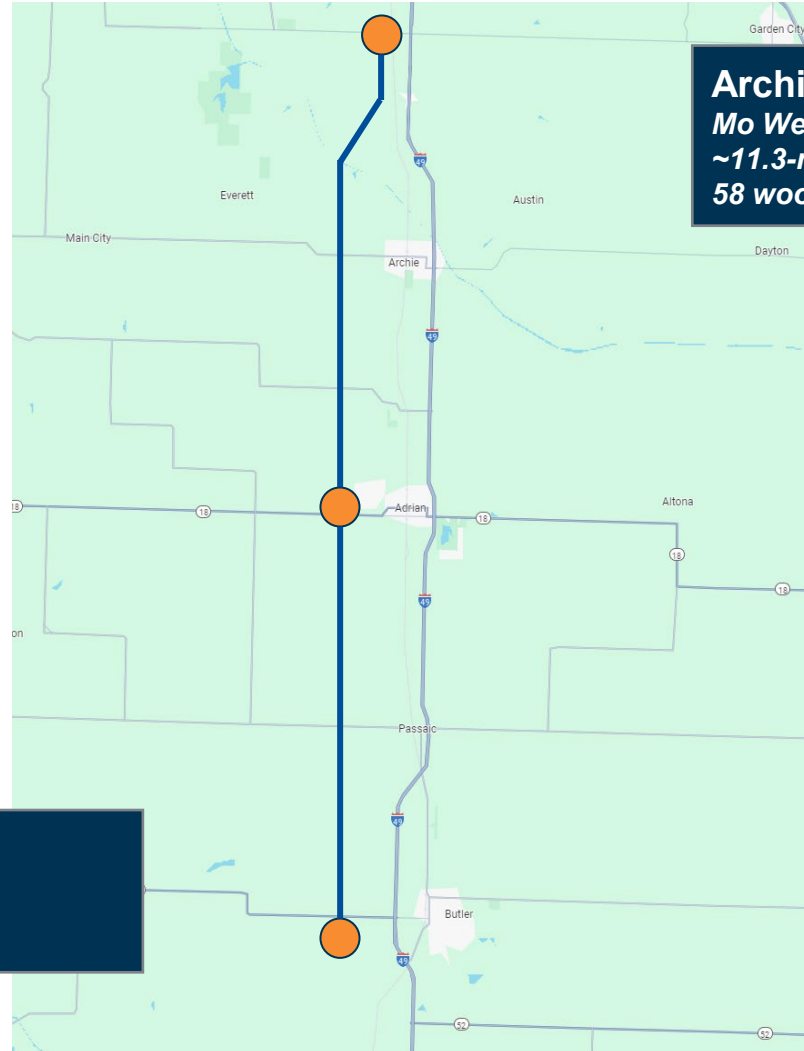
*After*



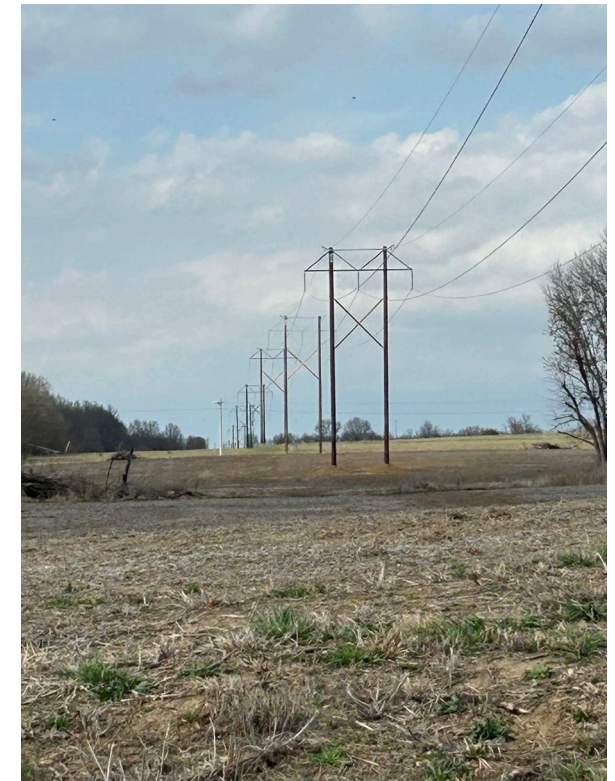
# Grid Mod Benefits: Strategic Transmission Line Rebuilds



**Adrian – Butler 161kV**  
*Mo West*  
~9.7-mile targeted pole replacement  
46 wood pole structures replaced



**Archie – Adrian 161kV**  
*Mo West*  
~11.3-mile targeted pole replacement  
58 wood pole structures replaced



*Illustrative route shown*

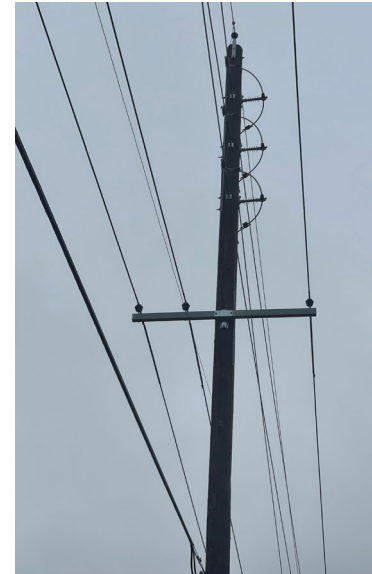


# Grid Mod Benefits: Distribution Asset Replacement

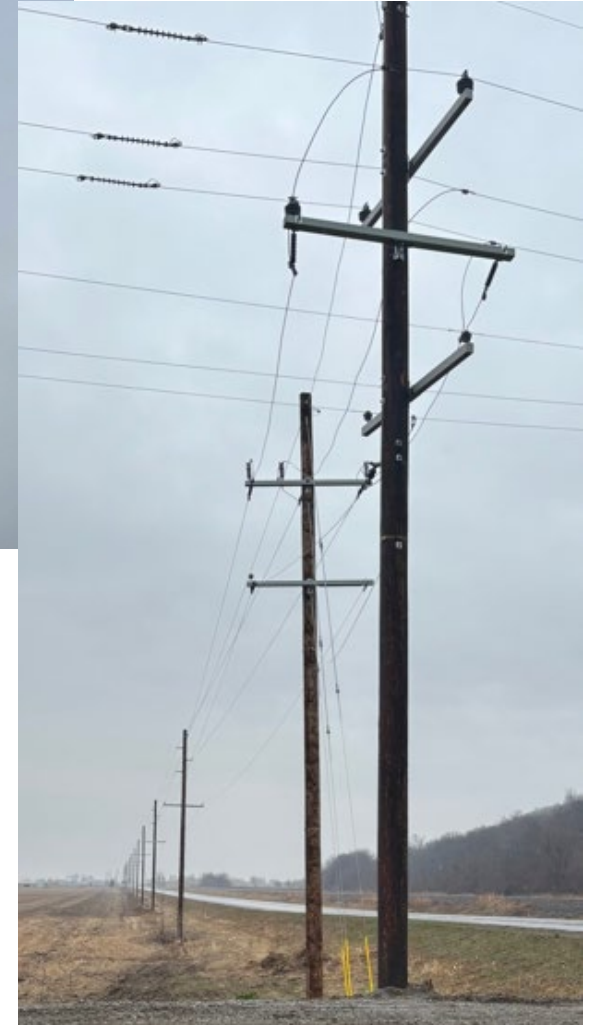
*Illustrative route shown*



**Before**



**After**



**Alabama – Rushville 34.5kV Line Rebuild  
Mo West  
St. Joseph, MO  
~16 mile rebuild. Multi-year project completed in 2023  
Replaced 345 wood poles and upgraded conductor**



# Grid Mod Benefits: Distribution Assets Replacement

## “Major” Underground

Underground infrastructure feeding large parts of the system and large commercial customers

**\$19M**

2024-2028  
spend



## Residential Underground

Underground infrastructure feeding residential customers / neighborhoods

**\$122M**

2024-2028  
spend

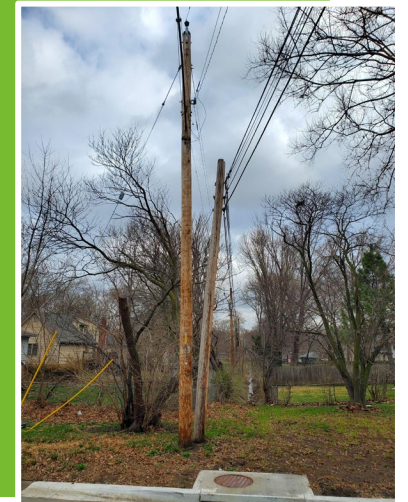


## Residential Overhead

Overhead infrastructure feeding residential customers / neighborhoods

**\$96M**

2024-2028  
spend



*Asset replacements are prioritized based on condition data and likelihood of failure*



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# Questions And Feedback



- **Chat**

- Submit written questions via the chat option during today's Q&A period
- Presenters will respond to questions as time allows during meeting



- **Raise hand**

- Use the "raise hand" icon at the top of the screen
- When called by meeting facilitator, unmute to ask your question



- **Email us**

- Send questions to [regulatory.affairs@evergy.com](mailto:regulatory.affairs@evergy.com)