

**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 West¹ (“Evergy Missouri West”) (collectively, the “Company”) and for their Notice, state as follows:

1. On March 27, 2023, 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.

¹ 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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**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 28th day of March 2023, via e-mail.

/s/ Roger W. Steiner

Roger W. Steiner



Evergy Annual and 5-Year Capital Plans

Empowering a Better Future

Kirk Andrews & Ryan Mulvany

EO-2019-0045 & EO-2019-0047

Public Stakeholder Meeting

March 27, 2023





State Policy Encourages Grid Mod And Renewables

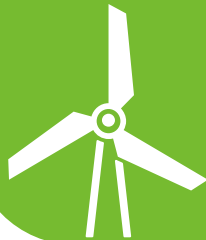
Senate Bill 564 implemented to promote state's transition to cleaner, more advanced grid

Policy Objectives of Missouri Senate Bill 564

**Enhance
reliability,
resiliency, and
security**



**Adapt to a
changing
generation
landscape**



**Improve
customer
service**





Evergy's Capital Investment Plan (2023-2027)

Embraces Senate Bill 564, accelerates transition to forward-thinking, sustainable energy company

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 \$3.92B of infrastructure investment in Missouri 2023-2027
- More than 65% of 2023 spend will go directly to grid modernization
- 2023-2027 spend will include investment in renewables as informed by Evergy's Integrated Resource Plan

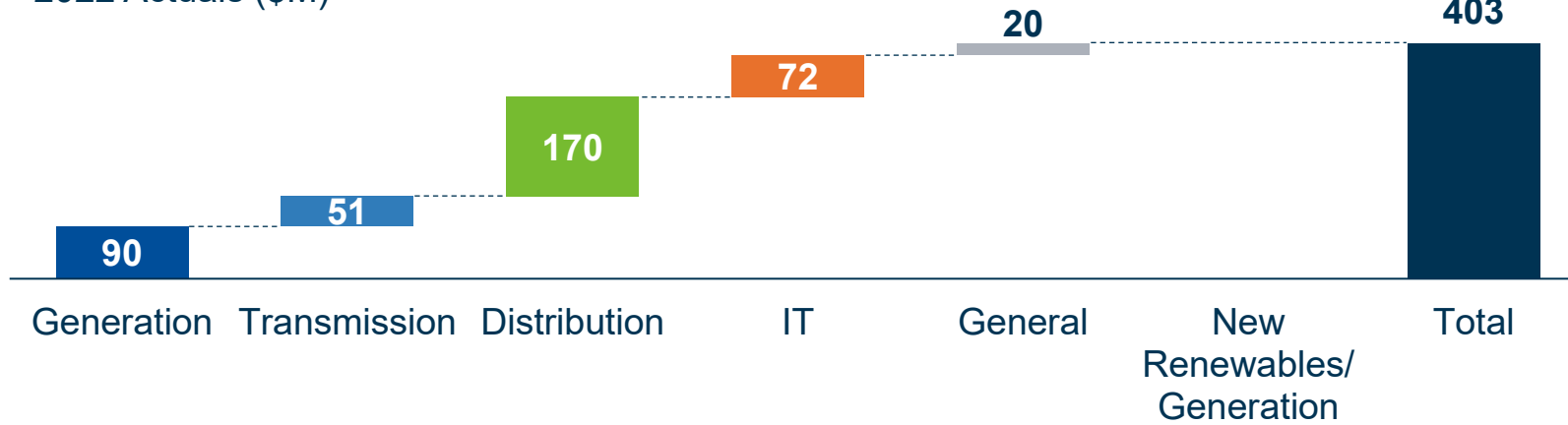
2022 Progress

- Invested nearly \$850 million in Missouri assets
- More than 56% spent on grid modernization projects

2022 Capital Investment Update

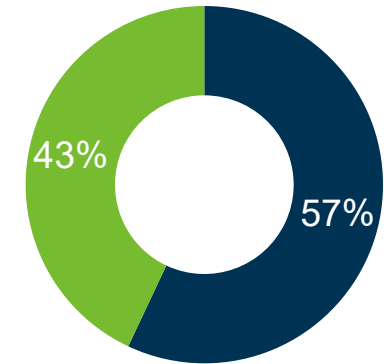
Missouri Metro – Capital Investments

2022 Actuals (\$M)



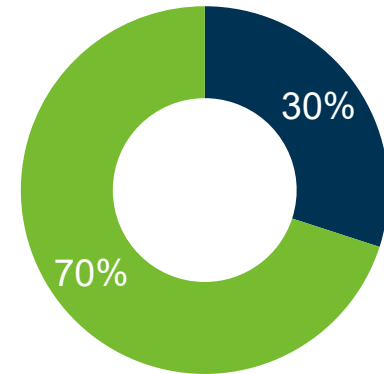
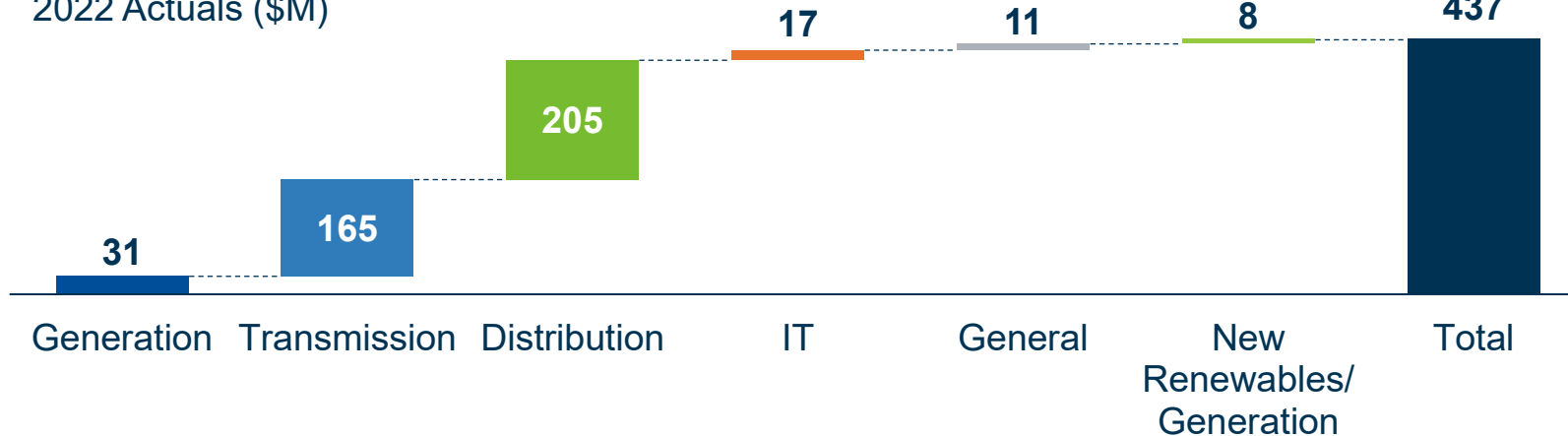
Grid Modernization Investment

% of 2022 Actuals¹



Missouri West – Capital Investments

2022 Actuals (\$M)



■ Grid Modernization ■ Other

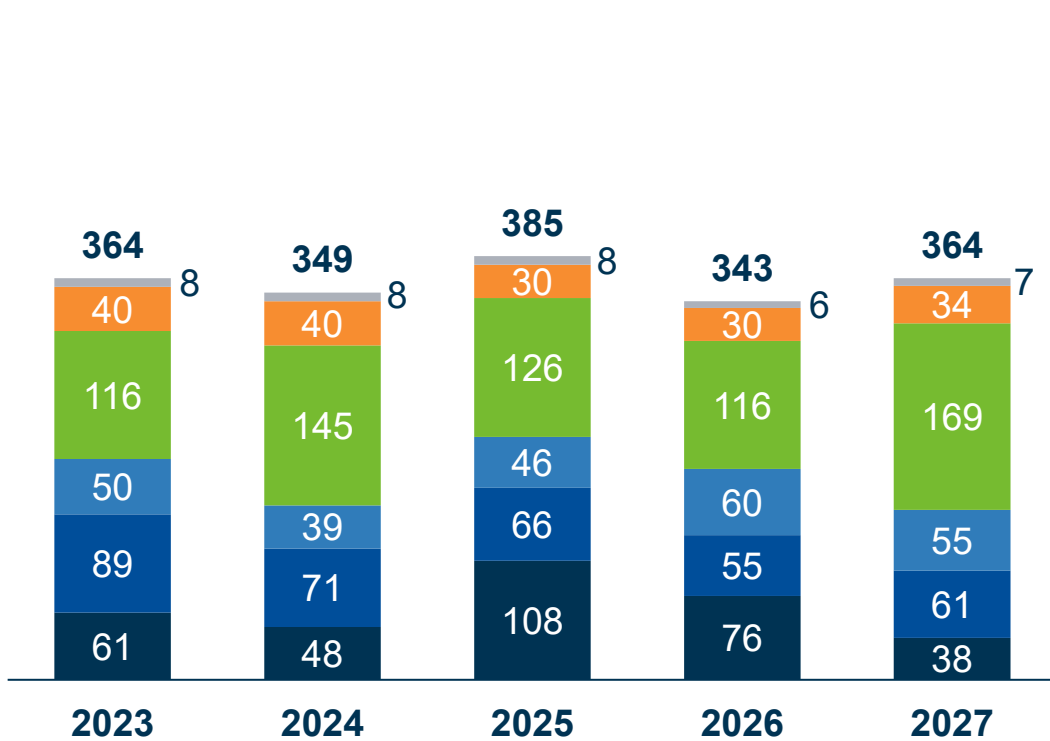
¹ No adjustment made for removal or nuclear fuel purchases as reflected in the Capital Investment Plan filings



Evergy's Five-Year Capital Plan

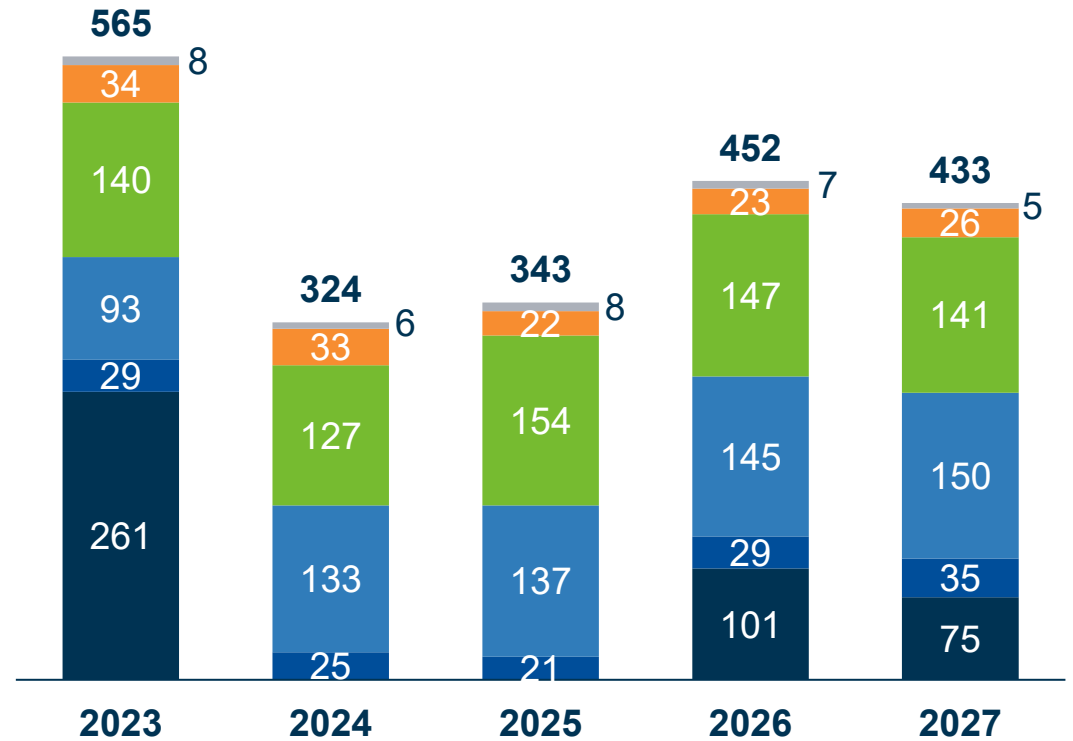
Continued investment in Missouri, focus on grid modernization

Missouri Metro (\$M)



47% Grid Modernization in 2023

Missouri West (\$M)



77% Grid Modernization in 2023

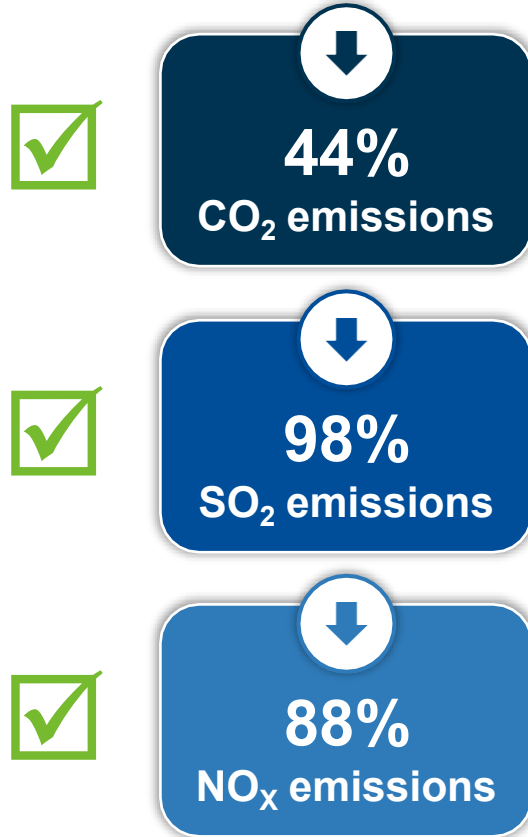
New Renewables
 Other Generation
 Transmission
 Distribution
 IT
 General



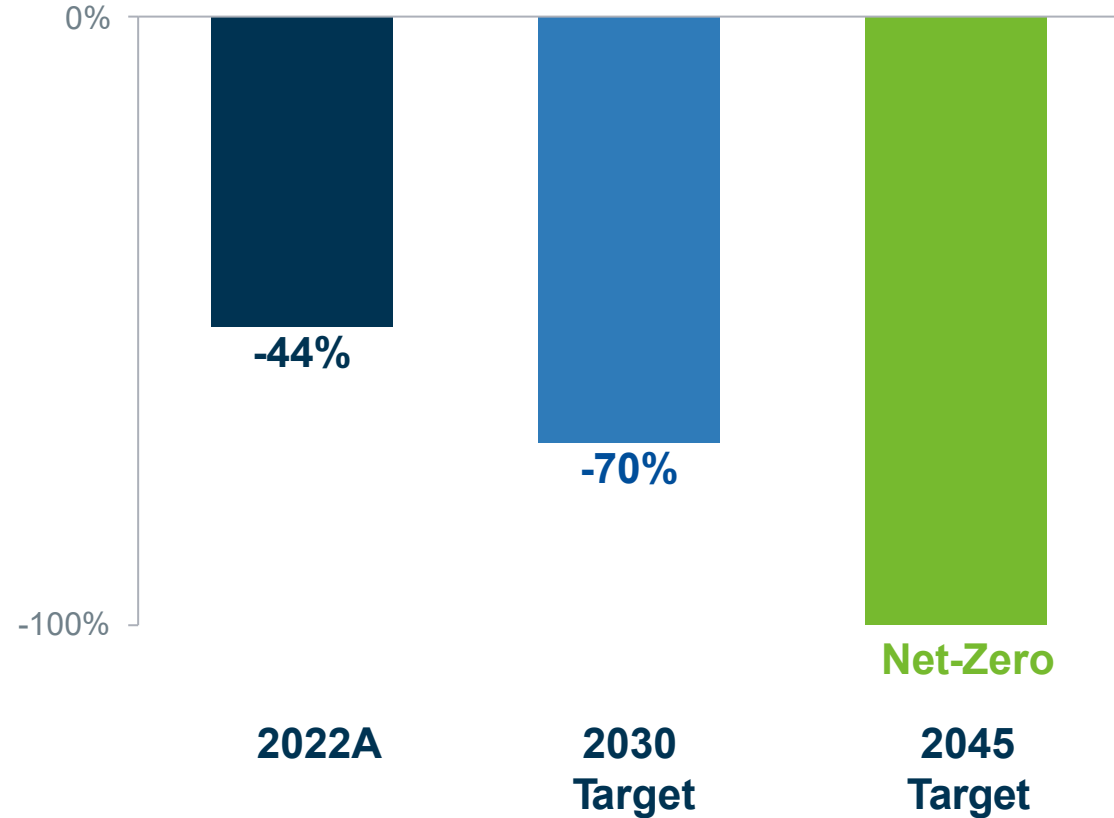


Evergy, Inc.: Emissions Reductions Track Record & Targets

Achieved Emissions Reductions Since 2005



CO₂ Emission Reductions Targets¹



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.



10 MWac Hawthorn Solar Development



Project Overview

- Located on 70 acres of Evergy owned property NW of Hawthorn Generating Station
- 10 MW Total
 - 5 MW allocated to the Solar Subscription Tariff
 - 5 MW allocated to fulfilling 393.1665 RSMo¹ requirements
- 22,032 - Solar PV Modules (545W each)
- 3 – 3,800kW DC to AC Inverters
- Single-Axis Tracker Racking System

Project Milestones

- Project interconnected at the transmission level utilizing existing infrastructure at Hawthorn Unit 8.
- Commercial Operation Date – January 11, 2023

Evergy Metro and Missouri West constructed a unique community solar and RSMo 10 MW solar project utilizing existing land and interconnection

1. Portions of this 5MW capacity will shift to serve the solar subscription program over time with the demand for the program

Delivering On Grid Modernization Benefits

Evergy's detailed grid modernization plans balance multiple, diverse stakeholder benefits



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

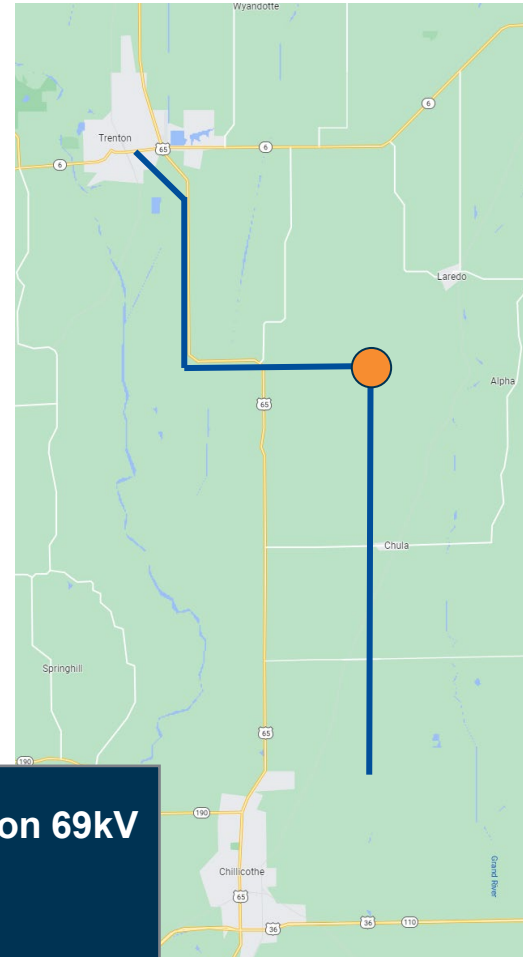


Grid Mod Benefits: Strategic Transmission Line Rebuilds

Improve resiliency of critical assets while replacing aged assets with stronger, newer components



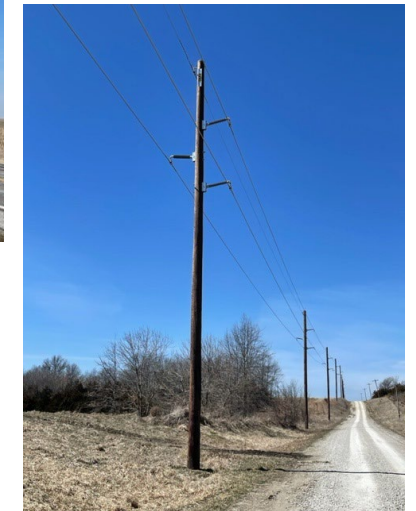
Before



Illustrative route shown



After



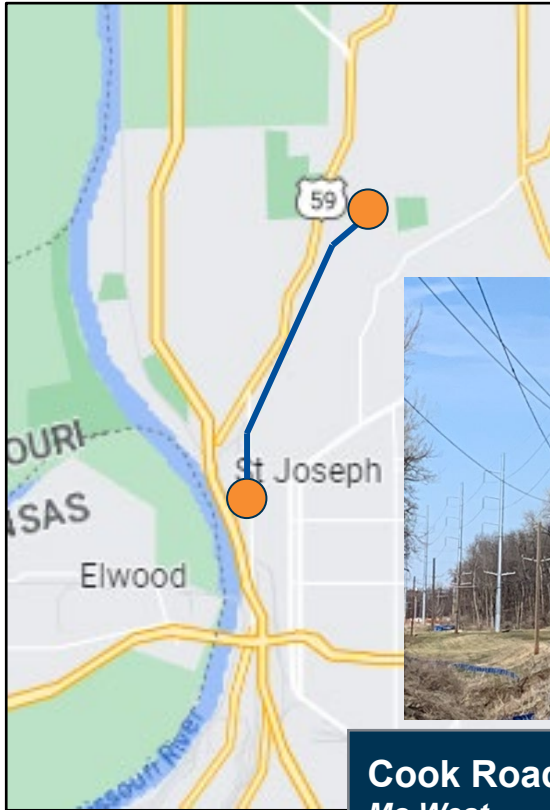
After

**Chillicothe – Laredo 69kV and Laredo – Trenton 69kV
Mo West**
~23.55 miles rebuild
528 wood poles structures replaced
27 wood poles structures replaced with steel structures



Grid Mod Benefits: Strategic Transmission Line Rebuilds

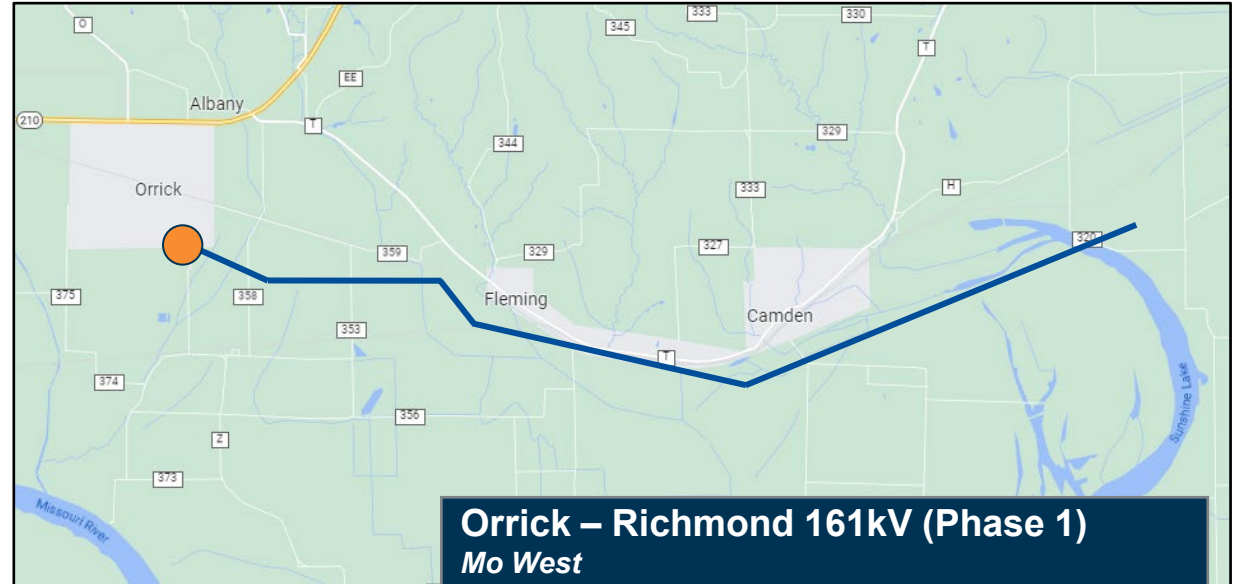
Improve resiliency of critical assets while replacing aged assets with stronger, newer components



Illustrative route shown



Cook Road – Edmond Street 161kV
Mo West
~3.4 mile rebuild
46 wood pole structures replaced with steel
Updated line terminals at Edmond Street Substation



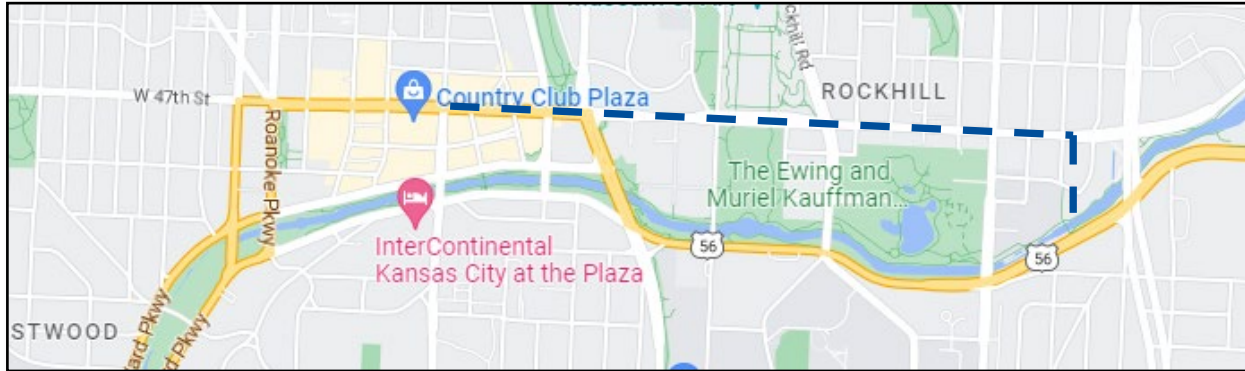
Illustrative route shown

Orrick – Richmond 161kV (Phase 1)
Mo West
~9 mile rebuild
55 wood pole structures replaced with steel
Orrick Substation expanded and installed new line breakers

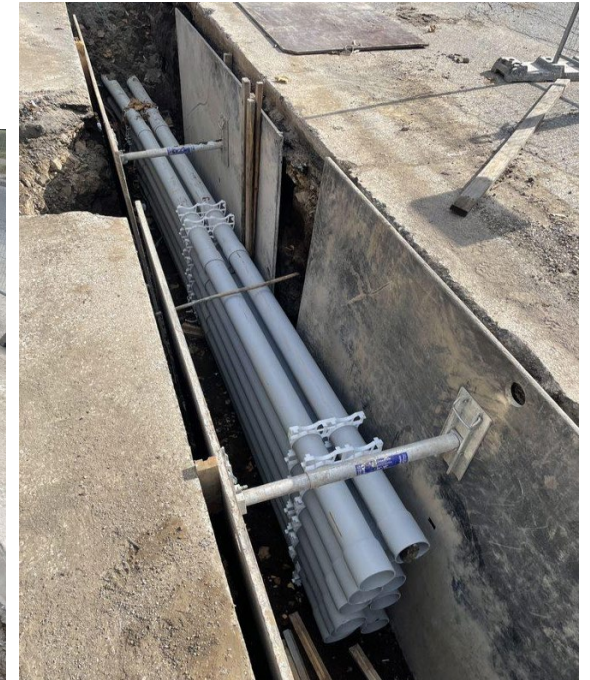


Grid Mod Benefits: Distribution Asset Replacement

Improve resiliency of critical assets while replacing aged assets with stronger, newer components



Illustrative route shown



Midtown Duct Bank

Mo Metro

~1.3 miles of new 12-way duct bank

New 6" PVC conduit

Increased conduit size provides additional circuit cable ampacity by allowing dissipation of heat



Grid Mod Benefits: Distribution Asset Replacement

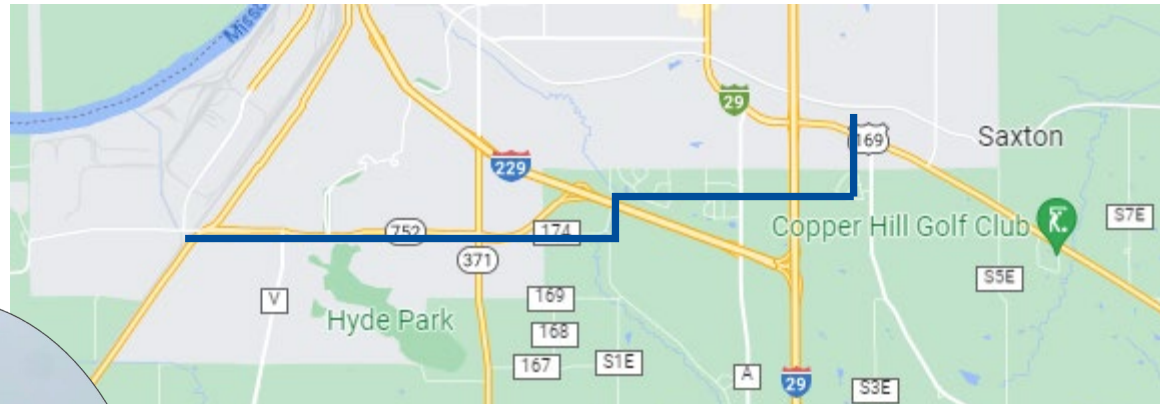
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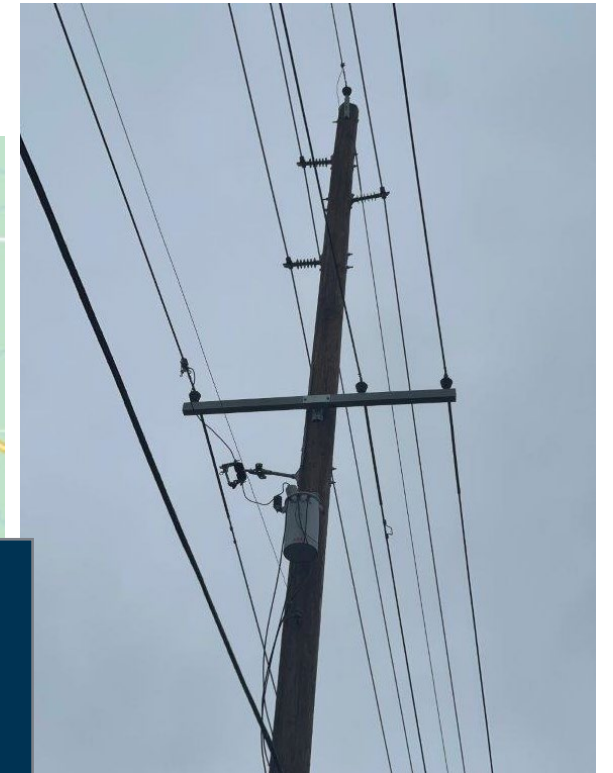
Before



Illustrative route shown



Industrial Park Distribution 34.5kV Circuit
Mo West
St. Joseph, MO
Targeted 2023 completion
~6.5 mile rebuild
Replacing 125 wood poles and upgrading conductor



After



Grid Mod Benefits: Distribution Assets Replacement

Programmatic plan improves reliability by upgrading aged equipment in residential, urban areas

“Major” Underground

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

\$38M

2023-2027 investment



Residential Underground

Underground infrastructure feeding residential customers / neighborhoods

\$120M

2023-2027 investment

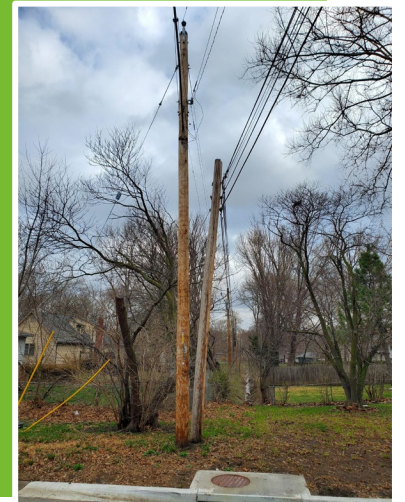


Residential Overhead

Overhead infrastructure feeding residential customers / neighborhoods

\$211M

2023-2027 investment



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



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Questions And Feedback

We want to hear from you!



- **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