

**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 24, 2022, 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.

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<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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**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 25<sup>th</sup> day of March 2022, via e-mail.

*/s/ Roger W. Steiner*

Roger W. Steiner



# Evergy Annual and 5-Year Capital Plans

*Empowering a Better Future*

Kirk Andrews & Bruce Akin

EO-2019-0045 & EO-2019-0047

Public Stakeholder Meeting

March 24, 2022





# Moving Energy Forward | Cleaner Energy

[Click to view video](#)



# State Policy Encourages Grid Mod and Renewables

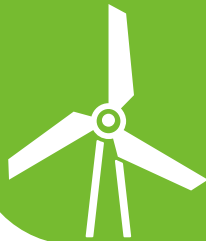
*Senate Bill 564 implemented to promote state's transition to cleaner, more advanced grid*

## 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 (2022-2026)

*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 \$3.78B of infrastructure investment in Missouri 2022-2026
- More than 56% of 2022 spend will go directly to grid modernization
- 2022-2026 spend will include investment in renewables as informed by Evergy's Integrated Resource Plan

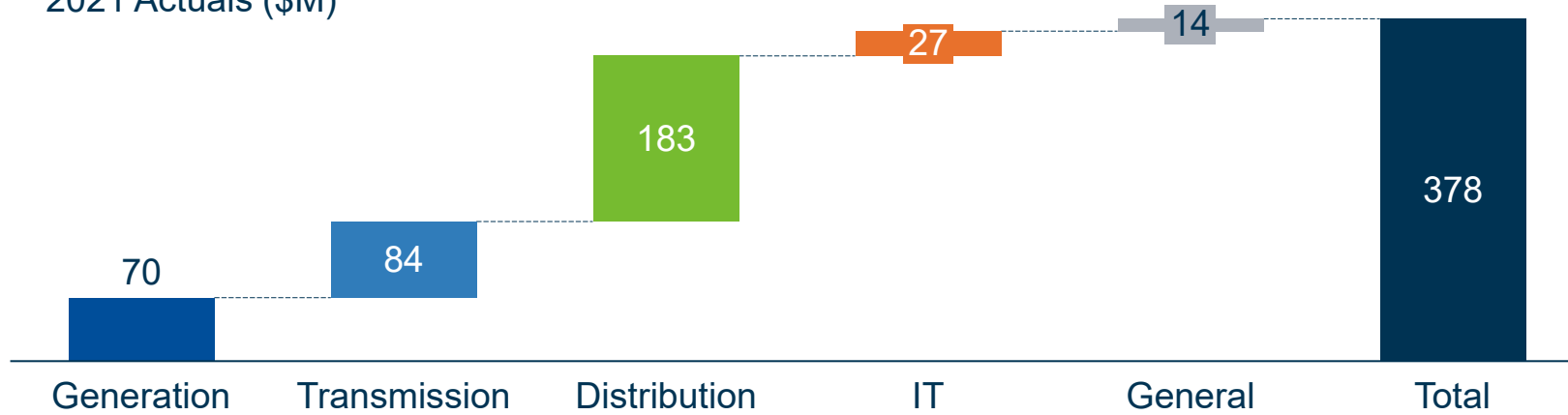
## 2021 Progress

- Invested nearly \$900 million in Missouri assets
- More than 67% spent on grid modernization projects
- Completed over 1,070 projects related to grid modernization

# 2021 Capital Investment Update

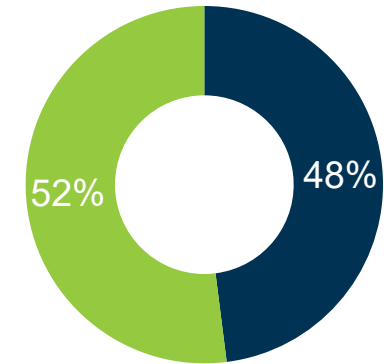
## Missouri Metro – Capital Expenditures

2021 Actuals (\$M)



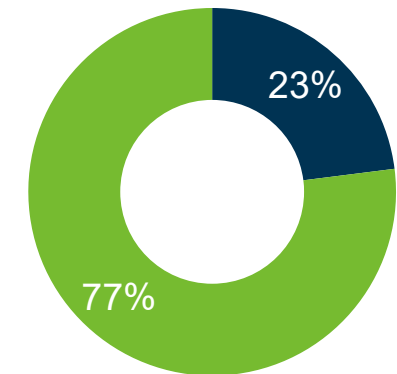
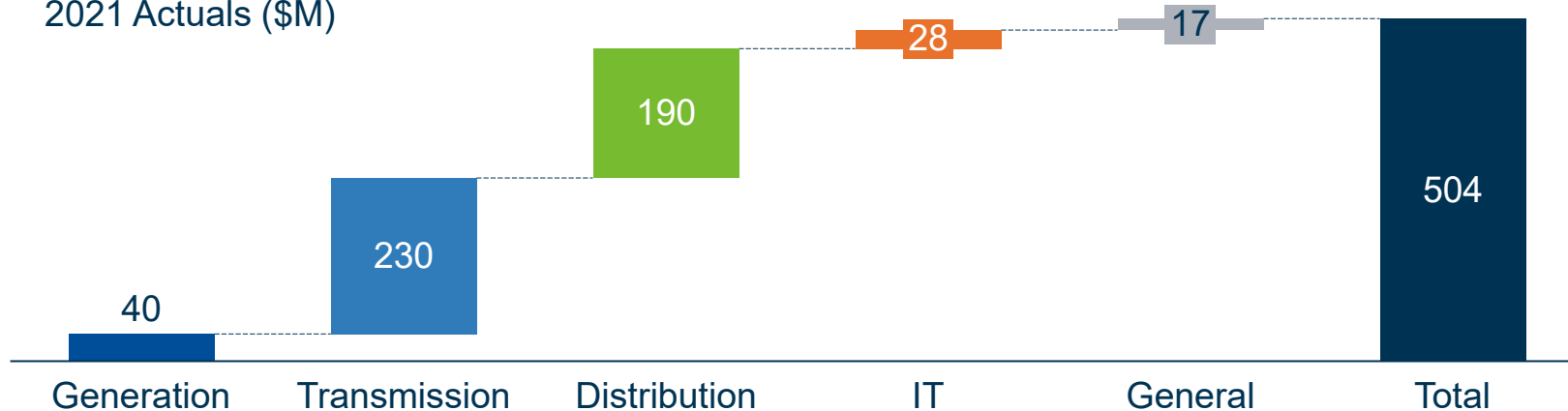
## Grid Modernization Spend

% of 2021 Actuals



## Missouri West – Capital Expenditures

2021 Actuals (\$M)



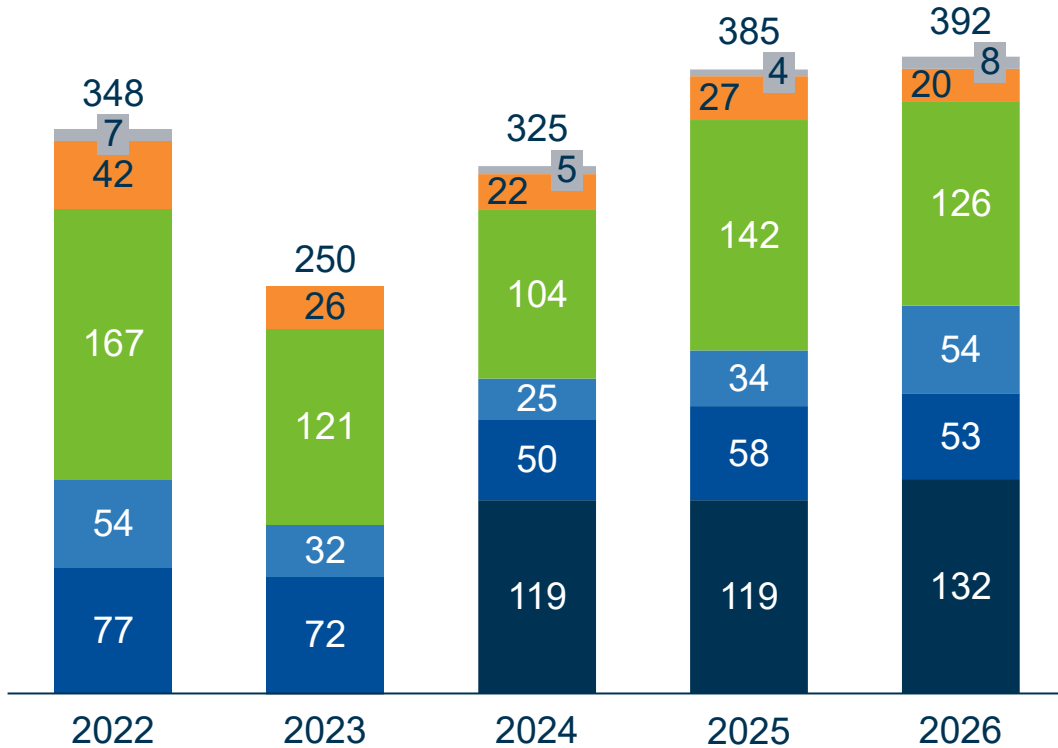
Grid Modernization Other



# Evergy's Five-Year Capital Plan

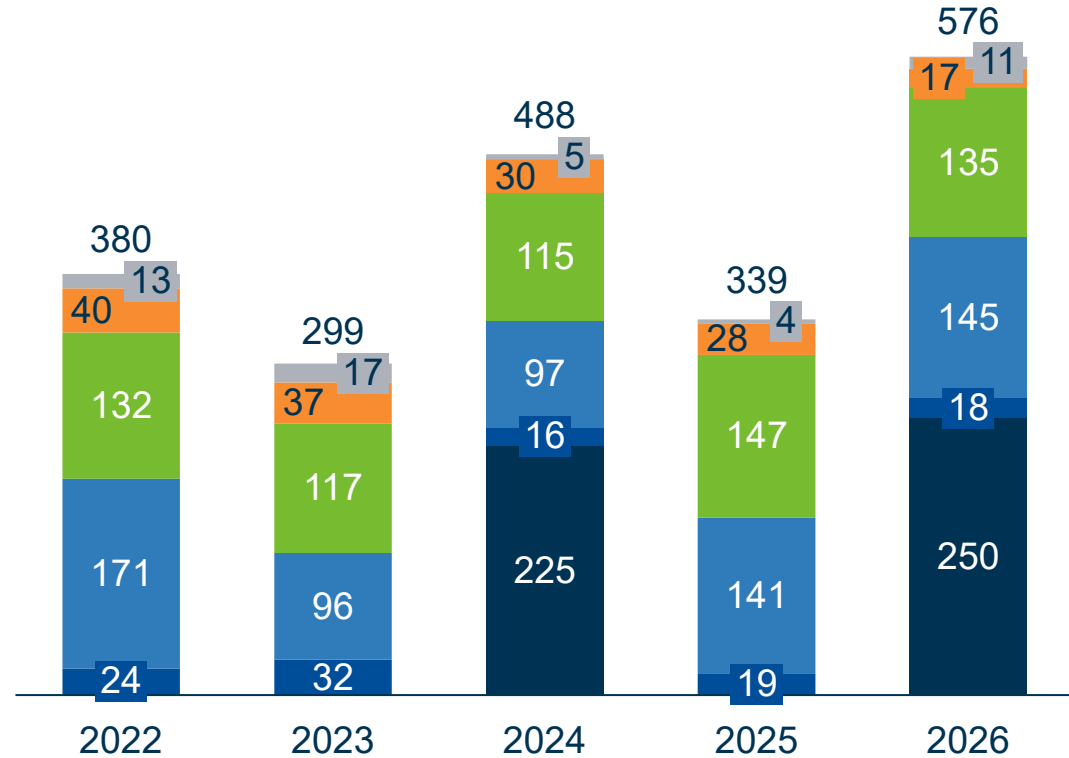
*Continued investment in Missouri, focus on grid modernization*

**Missouri Metro (\$M)**



48% Grid Modernization in 2022

**Missouri West (\$M)**



65% Grid Modernization in 2022

New Renewables
  Other Generation
  Transmission
  Distribution
  IT
  General

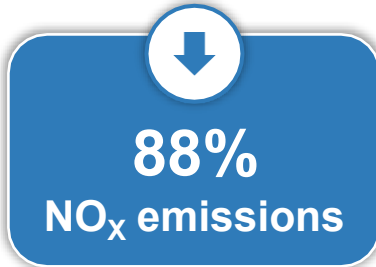
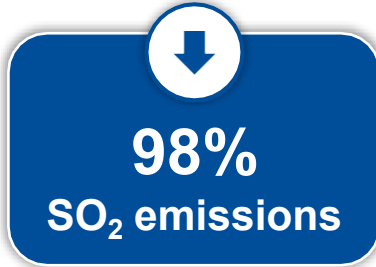
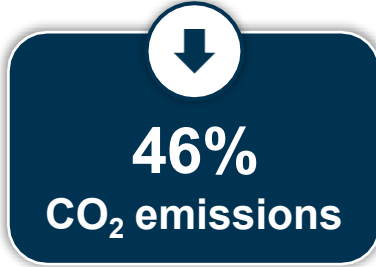




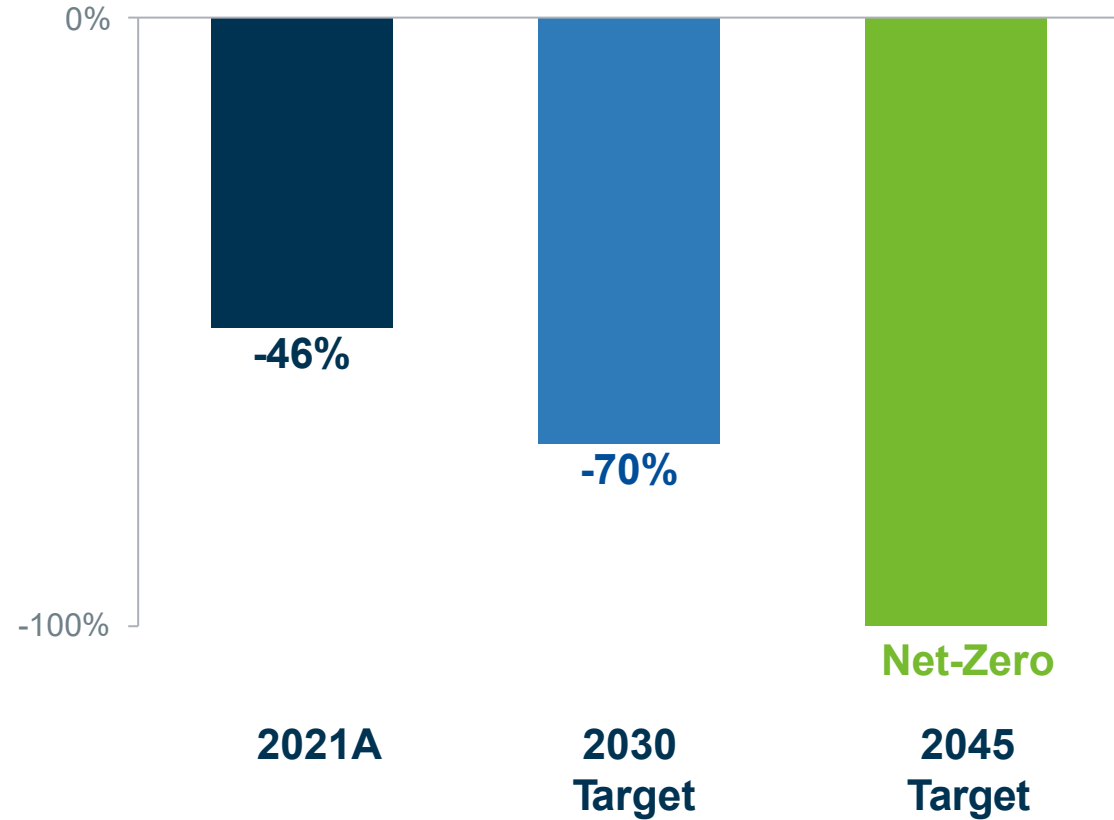


# Evergy, Inc.: Emissions Reductions Track Record & Targets

## Achieved Emissions Reductions Since 2005



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

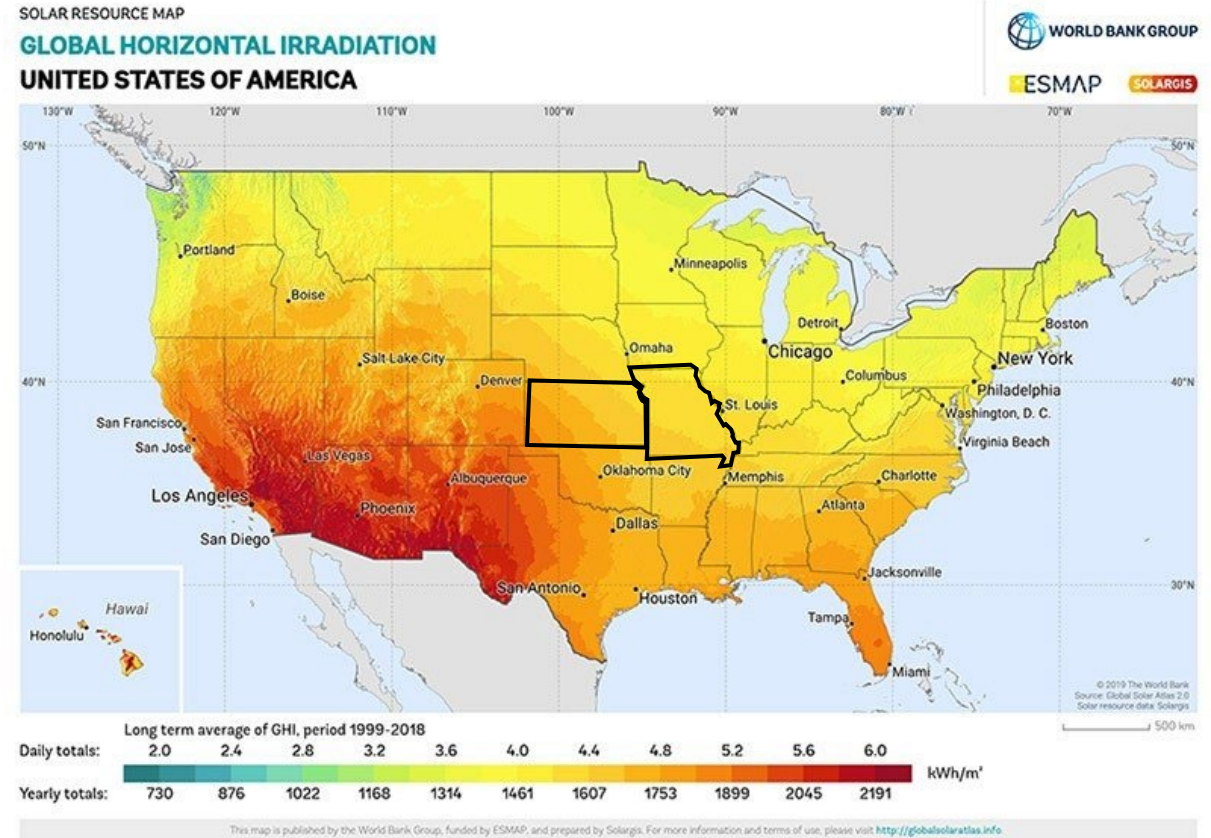
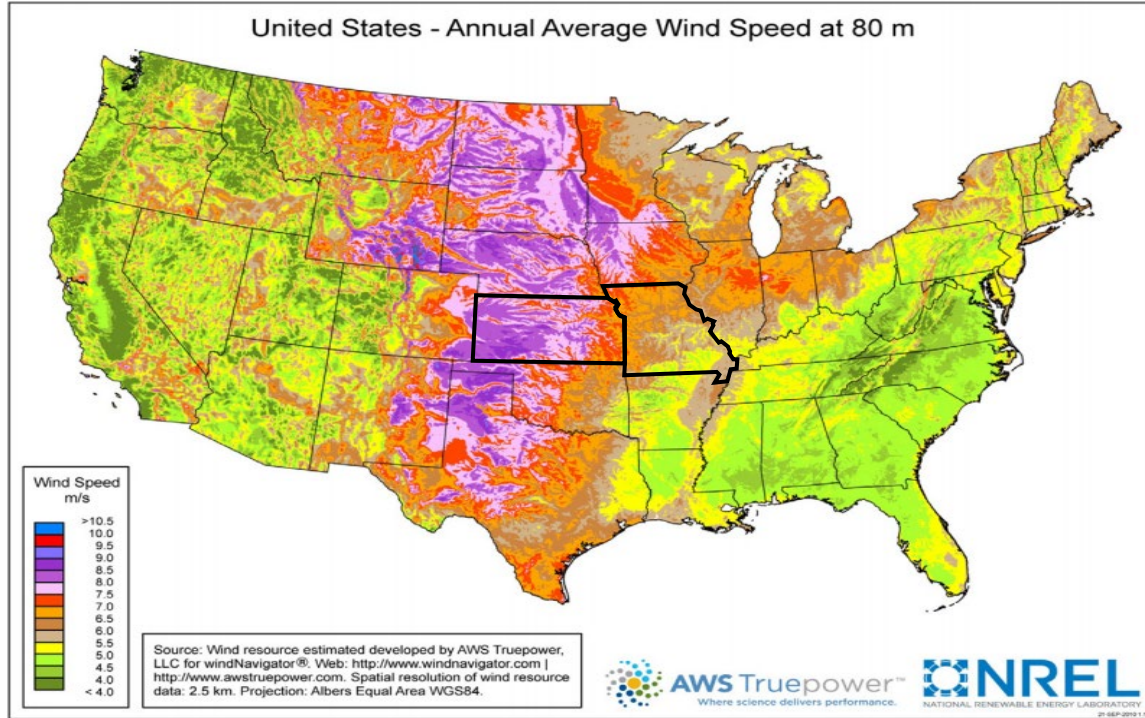


**Track record of significant emissions reductions and targeting net zero carbon emissions by 2045**

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.



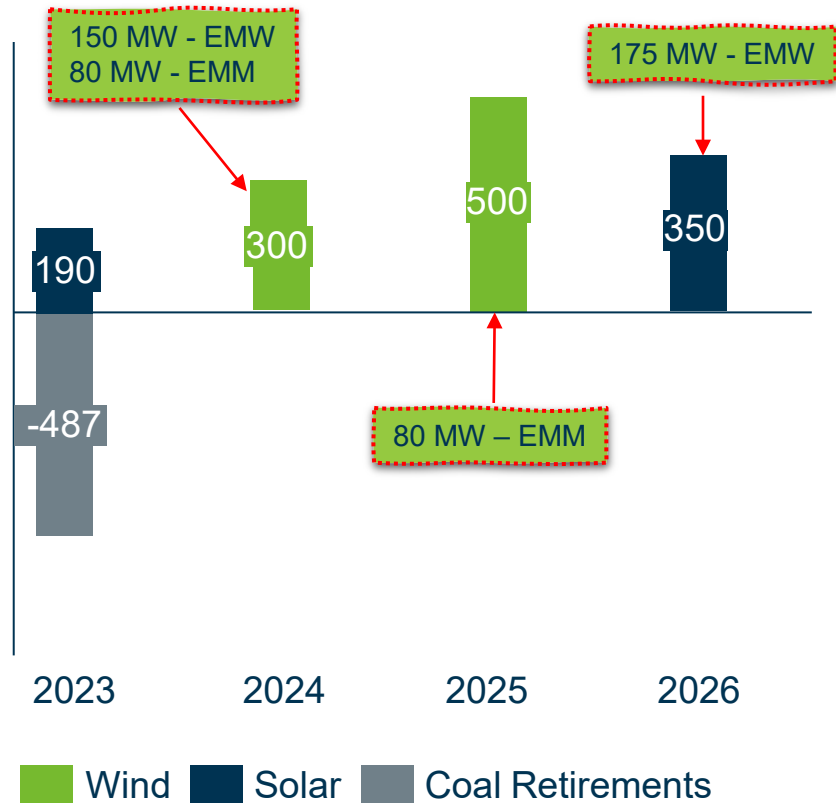
# Geographically Advantaged Service Territory



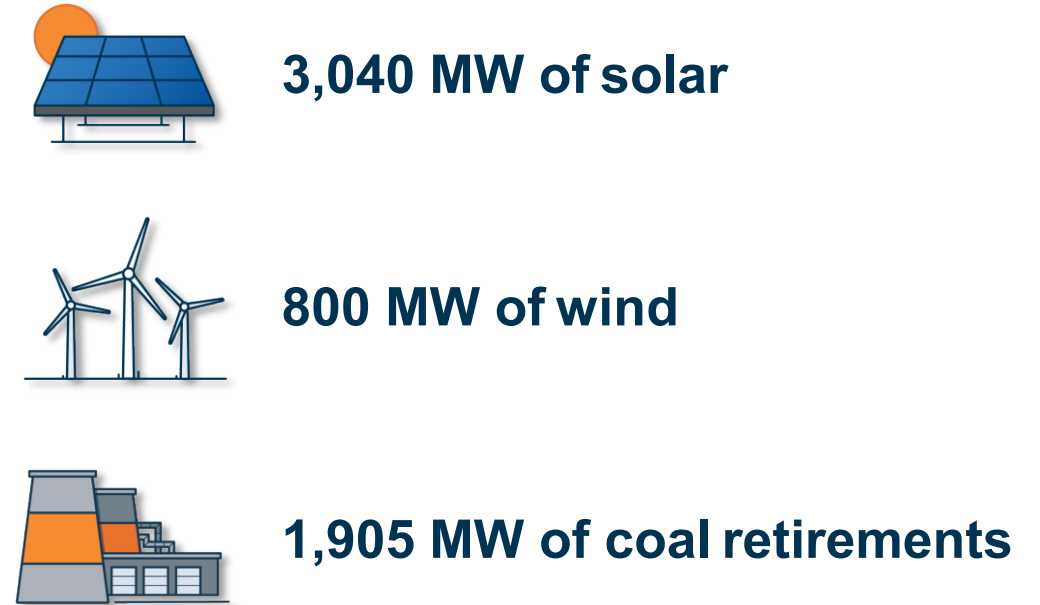
**Energy's service territory is one of the best wind resource corridors in the US; solar has a robust irradiance profile; robust long-term runway for beneficial renewables**

# Evergy Inc.: Updated Resource Plan Driving Sustainability

Projected Additions & Retirements (MW)<sup>1</sup> during capital plan



Projected Additions & Retirements (MW)<sup>1</sup> through 20-year IRP



**Evergy is planning to add over 3,800 MW of renewables and retire over 1,900 MW of coal through 2032**

1. Reflects total Company Additions and Retirements. Updated resource plan will be further informed by future RFPs and IRP updates.  
 2. Evergy Metro and Missouri West will file the annual IRP update in June 2022.





# 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 RSMo<sup>1</sup> requirements
- 22,032 - Solar PV Modules (545W each)
- 3 – 3,800kW DC to AC Inverters
- Single-Axis Tracker Racking System

## Project Milestones

- Project will interconnect at the transmission level utilizing existing infrastructure at Hawthorn Unit 8.
- Expected Commercial Operation Date - November 2022<sup>2</sup>

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

1. \*393.1665 RSMo requires a minimum of \$4M per jurisdiction to be spent on Solar projects in the state of Missouri  
2. Project schedule dependent on material delivery including solar modules which are currently under evaluation by the Department of Commerce as part of an anti-circumvention tariff

# 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**

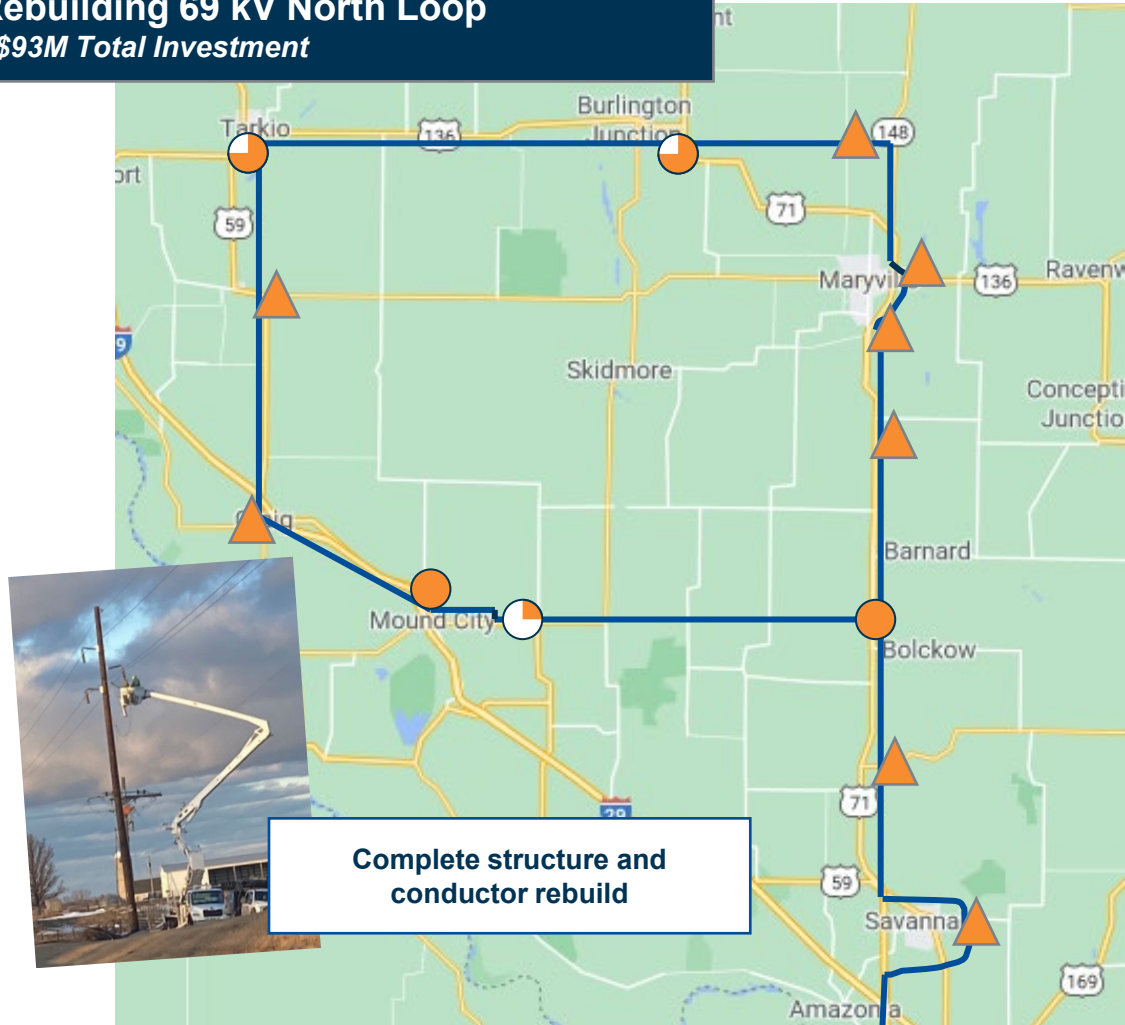




# Grid Mod Benefits: Strategic Transmission Line Rebuilds

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

**Rebuilding 69 kV North Loop**  
~\$93M Total Investment



**Complete structure and conductor rebuild**

## Transmission line rebuild completed in 2021

- Upgrades will reduce the occurrence of future outage events
- Fiber installed for enhanced communication
- 2400 poles replaced
- 398 miles of conductor replaced

## Substation and transmission line switching improvements at 13 locations

- Allows for greater flexibility and automated switching reducing number of customers impacted when outage events occur
- 10 locations already completed
- 2 additional locations to be finished in 2022
- 1 additional location to be completed in 2023
- Remote communication and SCADA control of installed devices to be functional by May



# Grid Mod Benefits: Strategic Transmission Line Rebuilds

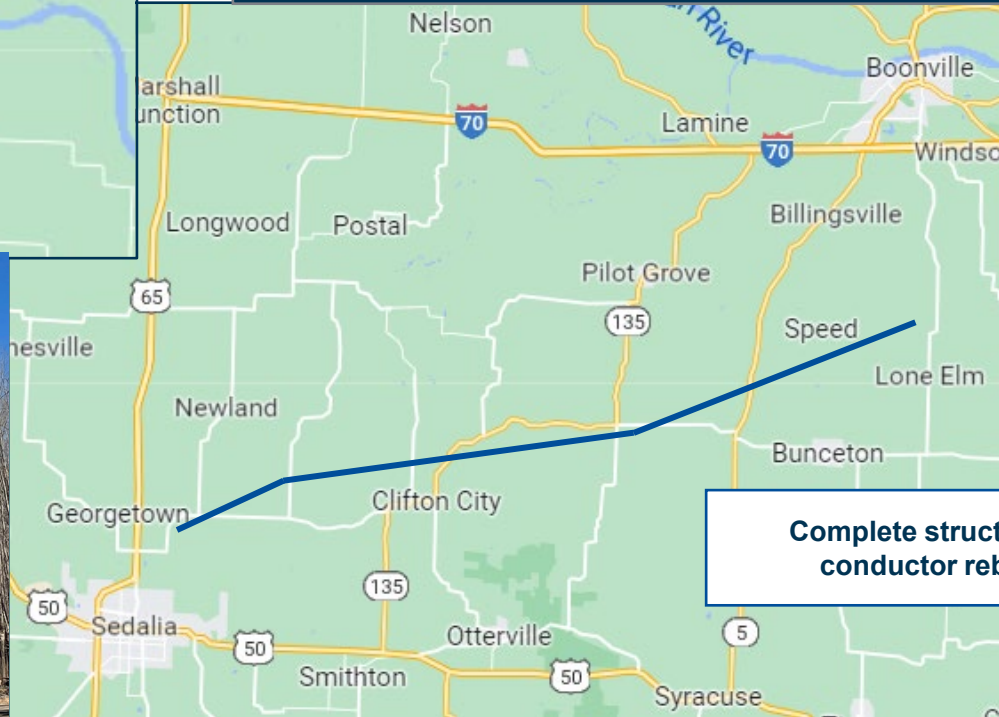
*Improve resiliency of critical assets while replacing aged assets with stronger, newer components*



**Brunswick – Carrollton 161kV**  
*Mo Metro*  
*Nearly 18 mile rebuild*  
*121 wood pole structures replaced with steel*  
*Upgraded breaker and relay settings at Carrollton substation*  
*Major substation upgrade at Brunswick substation including flood mitigation*



**Sedalia East – Overton 161 kV**  
*Mo West*  
*26 mile rebuild*  
*184 wood pool structures replaced with steel*



**Complete structure and conductor rebuilds**

*Illustrative routes shown*



# 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

**\$28M**

2022-2026  
spend



## Residential Underground

Underground infrastructure feeding residential customers / neighborhoods

**\$72M**

2022-2026  
spend

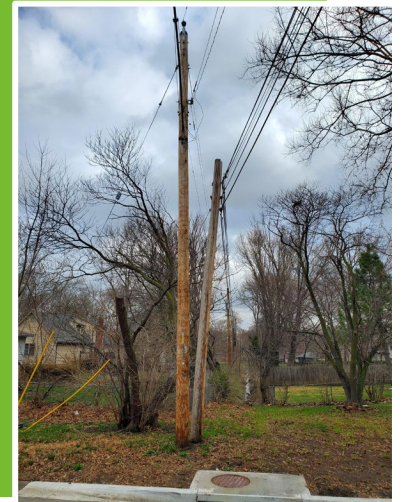


## Residential Overhead

Overhead infrastructure feeding residential customers / neighborhoods

**\$182M**

2022-2026  
spend

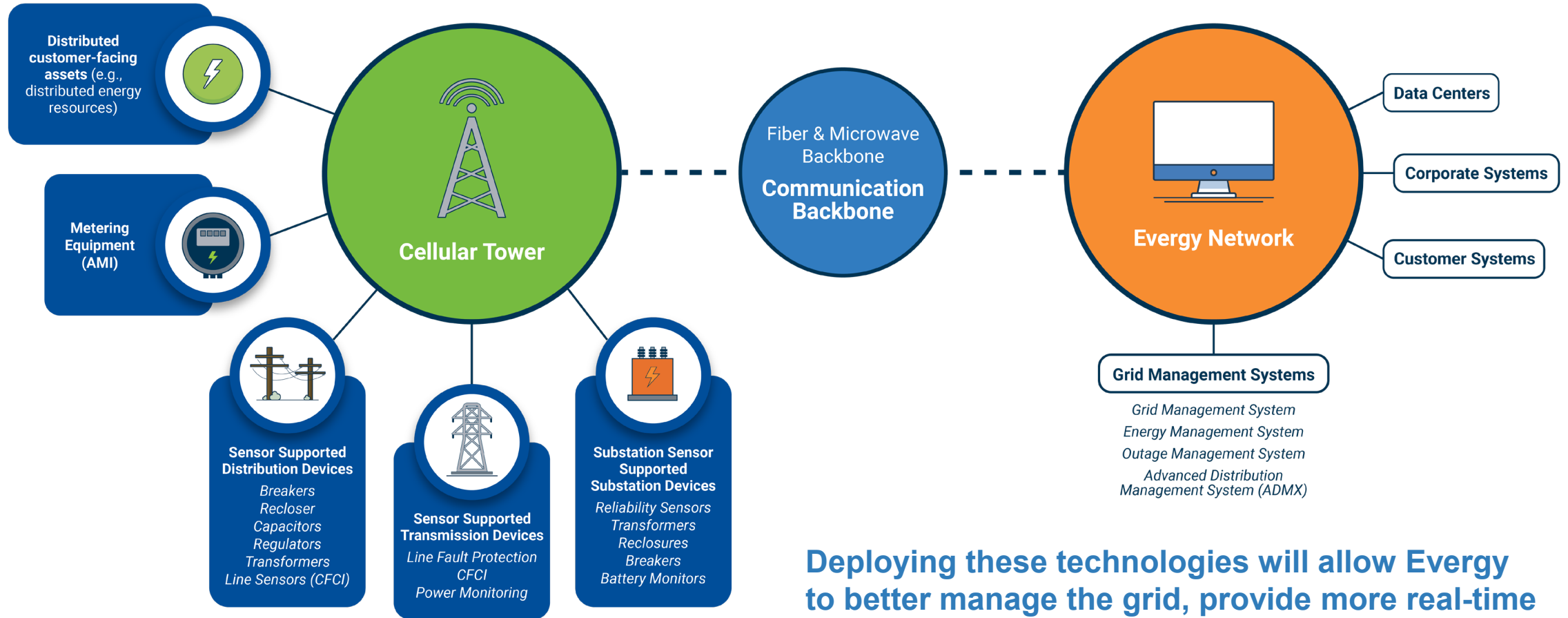


*Asset replacements are prioritized based on condition data and likelihood of failure*



# Grid Mod Benefits: Advanced Capabilities

Deploy advanced end use devices, communication infrastructure, and grid management systems that work in parallel with traditional assets to deliver advanced capabilities



Deploying these technologies will allow Evergry to better manage the grid, provide more real-time information, and enable smoother integration of distributed energy resources

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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](mailto:regulatory.affairs@evergy.com)