

Evergy Annual and 5-Year Capital Plans

Empowering a Better Future

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EO-2019-0045 & EO-2019-0047

Public Stakeholder Meeting

March 25, 2025



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







Evergy's Capital Investment Plan (2025-2029)

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

Modernizes Fleet

- Concentration on resource adequacy and fleet modernization
- 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 \$7.4B of infrastructure investment in Missouri 2025-2029
- More than 45% of 2025 spend will go directly to grid modernization
- 2025-2029 spend will include investment in new generation, including renewables, as informed by Evergy's Integrated Resource Plan

2024 Progress

- Invested about \$700 million in Missouri assets
- 43% spent on grid modernization projects

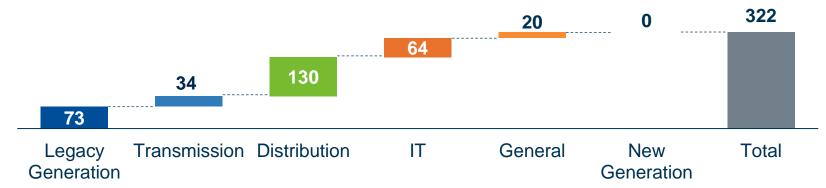




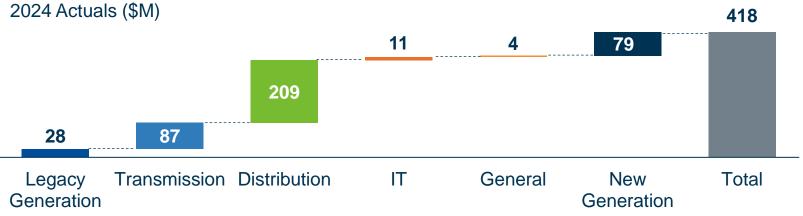
2024 Capital Investment Update

Missouri Metro – Capital Investments

2024 Actuals (\$M)

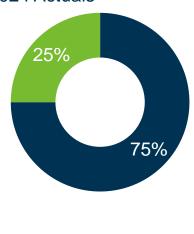


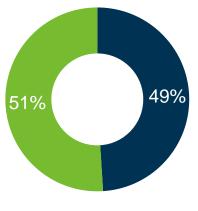
Missouri West – Capital Investments



Grid Modernization Investment

% of 2024 Actuals¹





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

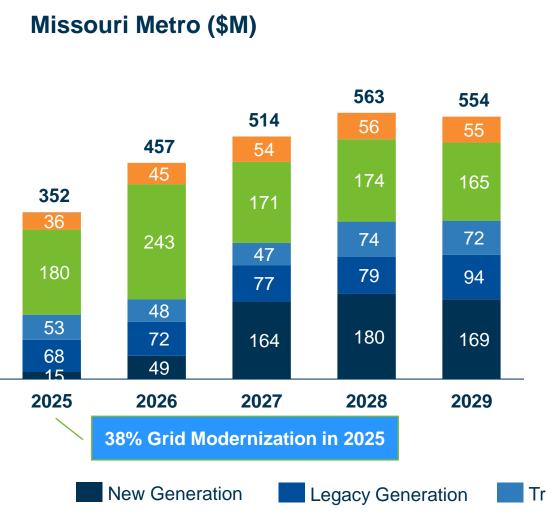
Grid Modernization

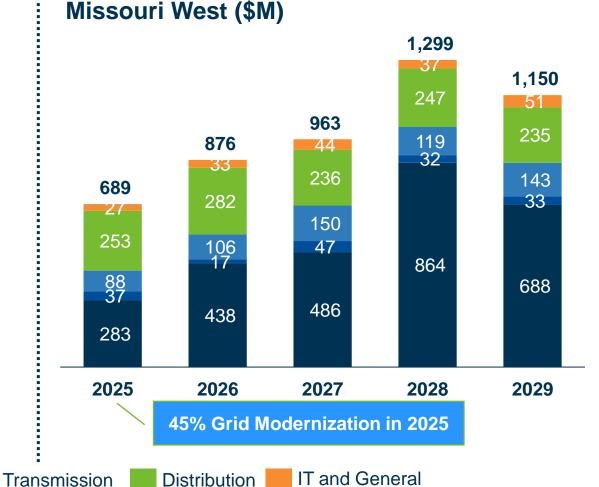
Other



Evergy's Five-Year Capital Plan

Continued investment in Missouri, focus on grid modernization and new dispatchable generation



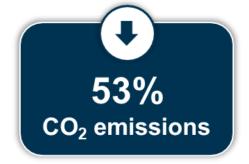




Emissions Reductions

Achieved Emissions Reductions Since 2005

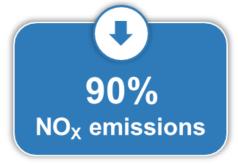










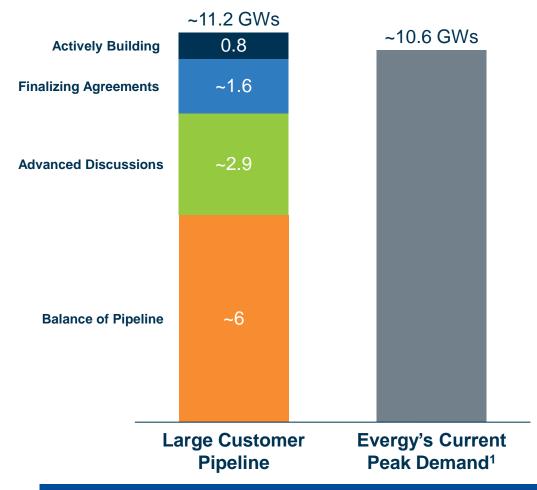


Evergy has a track record of significant emissions reductions





Economic Development Pipeline



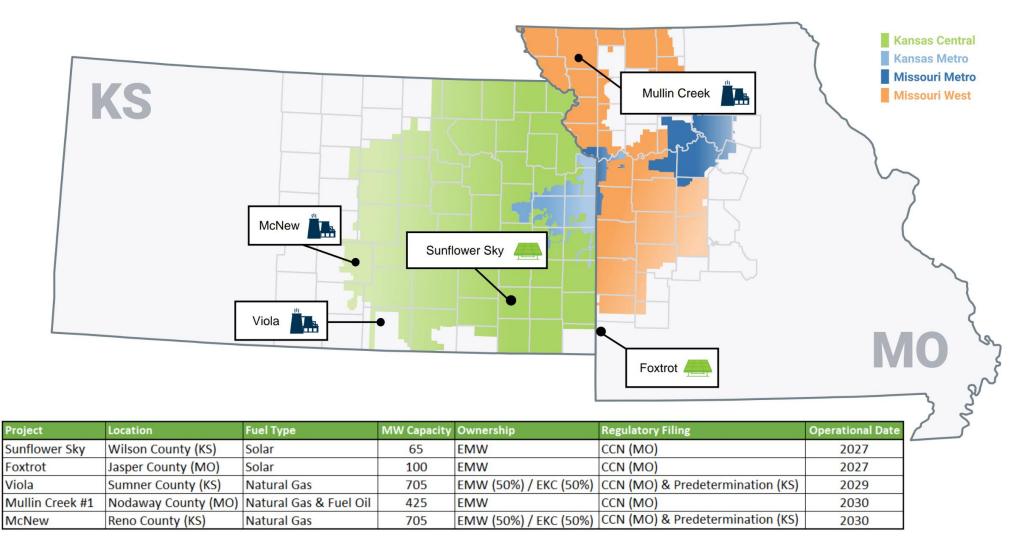
- **Actively Building:** 800 megawatts (MW) under active construction
 - ~500 MW included in our 2-3% demand forecast through 2029
- Finalizing Agreements: ~1.6 GWs from three data center projects, reflecting one project in Kansas and the expansion of an existing data center customer in Missouri
 - Not yet included in 2-3% demand forecast through 2029
- Advanced Discussions: ~2.9 GWs reflecting large customers that have acquired land, signed letters of agreement, and preliminary transmission and generation capacity studies are underway
- Balance of Pipeline: ~6 GWs in various stages of preliminary discussions

Economic development pipeline remains robust, with additional projects representing more than 10 gigawatts of incremental demand actively considering our service territories





Certificates of Convenience and Necessity (CCN) Project Map





Foxtrot and Sunflower Sky Solar (EA-2024-0292)



Overview of Projects

- 2024 Triennial Integrated Resource Plan identified ~150MWac need for solar by 2027
- Evergy Missouri West filed for a Certificate of Convenience and Necessity (CCN) on October 25, 2024, for two solar sites that would fulfill this need
- Foxtrot is a 100MWac site located in Jasper County, MO
- Sunflower Sky 65MWac site located in Wilson County, KS

Project Milestones

- Summer of 2025 Requested CCN Approval
- Summer of 2025 Begin Construction
- Before Summer of 2027 Projected Commercial **Operation Date**

Evergy Missouri West has requested approval for the addition of 165 MWac of Solar





50% stake in Viola & McNew Gas Generating Plants (EA-2025-0075)



Overview of Projects

- The 2024 Triennial Integrated Resource Plan identified a need for 325 MW of firm dispatchable thermal energy in 2029
- Evergy Missouri West filed for Certificates of Convenience and Necessity (CCN) on November 15, 2024
- Viola is 710 MW Combined Cycle Gas Turbine located in Sumner County, KS
- McNew is a 710 MW Combined Cycle Gas Turbine Located in Reno County, KS

Key Milestones

- 1st full week of August Requested CCN Approval
- Viola Construction begins in 2026, McNew following in 2027
- Viola is projected to be operational for the summer of 2029
- McNew is projected to be operational in the summer of 2030

Evergy Missouri West has requested approval for 710 MW of new Combined Cycle Gas plants





Nodaway County/Mullin Creek #1 Simple Cycle (EA-2025-0075)



Overview of Projects

- 2024 Integrated Resource Plan Triennial update identified ~415 MW need for thermal energy by 2030
- Evergy Missouri West filed the CCN application for Mullin Creek #1 along with the two Combined Cycle Gas Turbine plants on November 15th, 2024
- Mullin Creek #1 is 440MW Simple Cycle Gas Turbine located in Nodaway County, MO

Key Milestones

- 1st full week of August Requested CCN Approval
- Construction is expected to begin in 2027
- Mullin Creek #1 is expected to be operational for the summer of 2030

Evergy Missouri West has requested approval for a new 440 MW Simple Cycle Gas Turbine plant





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 T&D Rebuilds

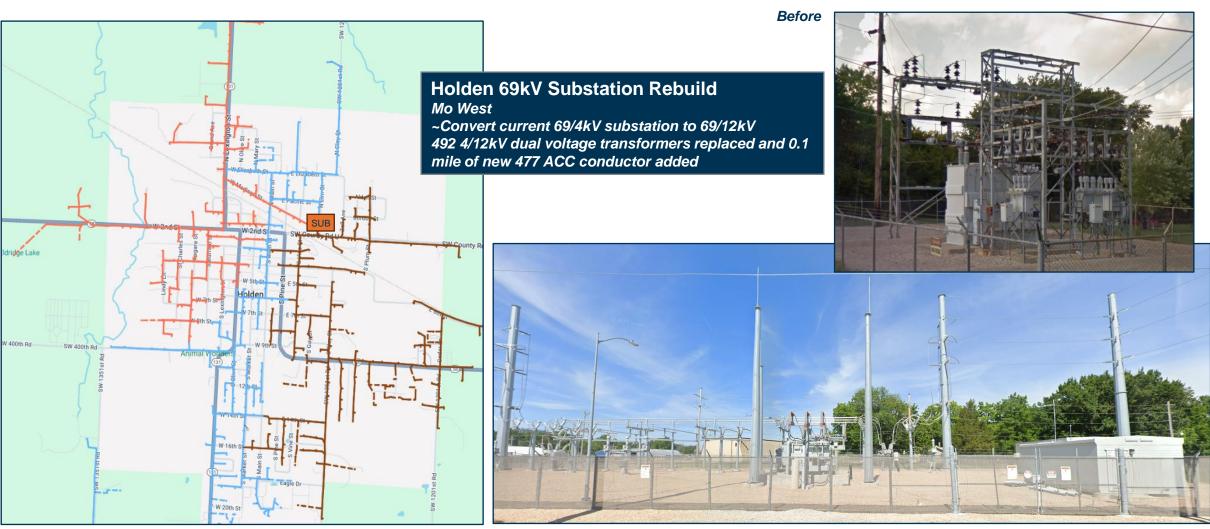
Improve resiliency of critical assets while replacing aged assets with stronger, newer components





Grid Mod Benefits: Strategic T&D Rebuilds

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



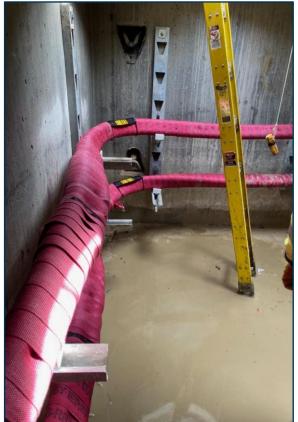
After Illustrative route shown

Public



Grid Mod Benefits: Distribution Urban Underground

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



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

2025-2029 spend



Residential Underground

Underground infrastructure feeding residential customers / neighborhoods

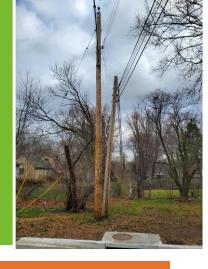




Residential Overhead

Overhead infrastructure feeding residential customers / neighborhoods





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

