

**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 25, 2021, 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/ Robert J. Hack

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**Attorneys 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 25th day of March 2021, via e-mail.

/s/ Robert J. Hack

Robert J. Hack



Evergy Annual and 5-Year Capital Plans

Empowering a Better Future

Kevin Bryant & Bruce Akin

EO-2019-0045 & EO-2019-0047

Public Stakeholder Meeting

March 25, 2021





State Policy Encourages Grid Mod and Renewables

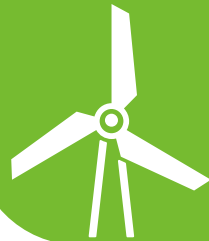
Senate Bill 564 implemented to promote state's transition to cleaner, more advanced grid

Policy Objectives of Missouri Senate Bill 564

**Enhance
reliability,
resiliency, and
security**



**Adapt to a
changing
generation
landscape**



**Improve
customer
service**





Energys Sustainability Transformation Plan (STP)

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 more than 40% 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 \$3.1B of infrastructure investment in Missouri 2021-2025
- More than 70% of 2021 spend will go directly to grid modernization
- 2022-2025 spend will include investment in renewables as informed by Energys Integrated Resource Plan

2020 Progress


- Invested over \$600M in Missouri assets
- More than 55% spent on grid modernization projects
- Completed over 900 projects related to grid modernization



Building a Connected Grid


Evergy's STP capital expenditures enable cleaner, more connected, more advanced grid at all levels

Transmission Lines




New infrastructure is required to **unlock decarbonization and enhance communications** equipment

Substations




Smart connections to help **manage power flows & monitor energy levels**

Distribution Lines




Smart assets are required to **further develop automation and outage management**

Smart Devices



Smart devices can **minimize disturbances** on the grid and provide **real-time data** on energy use and problems

Customer Distributed Energy & Electric Vehicles



Sensors & connectivity will become essential to **integrate new customer choices**



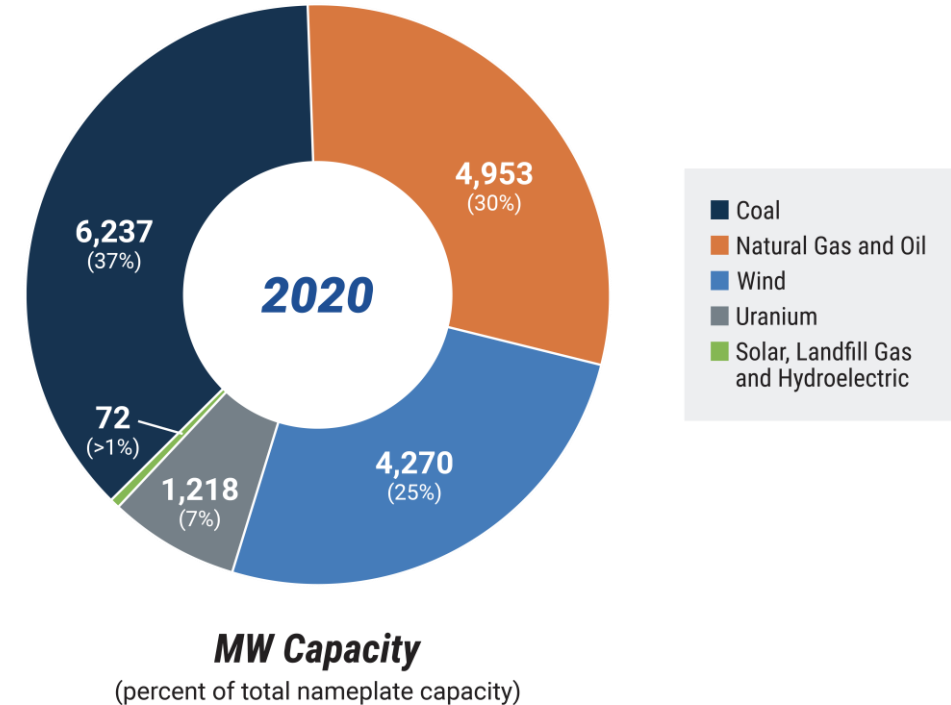
Evergy's Progress Toward a Lower Carbon Future

As of year-end 2020, we:

- **Have retired approximately 2,200MW** of end-of-life fossil generation since 2015,
- Have compiled a wind portfolio of over **4,000 MW**,
- **Reduced carbon emissions by 51%** from 2005 levels, and
- Are providing **more than half** of retail customers' energy needs through **emission-free sources** (renewable and nuclear).

Evergy will continue this progress through additional coal retirements and renewable investment informed by its upcoming Integrated Resource Plan

Evergy Generation by Fuel Type
MW (% of total)

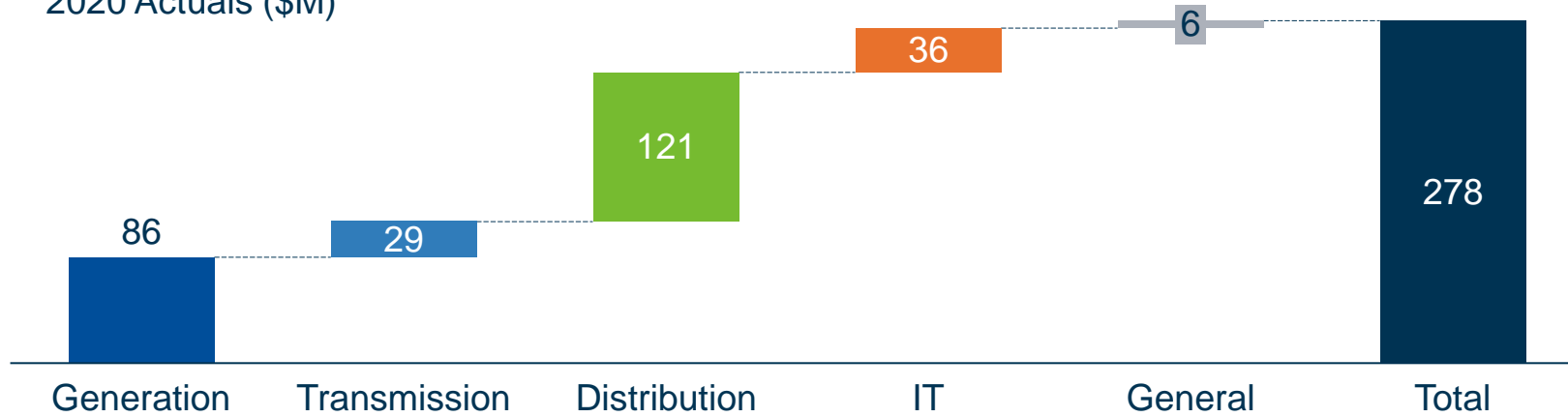


2020 Progress Update

First year of Evergy's STP execution

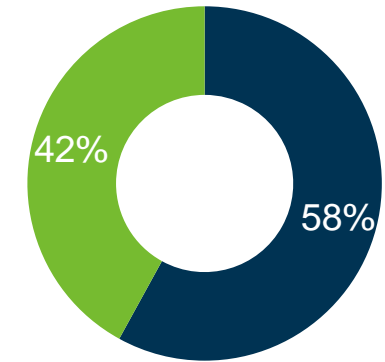
Missouri Metro – Capital Expenditures

2020 Actuals (\$M)



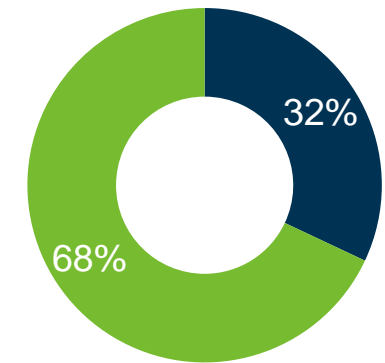
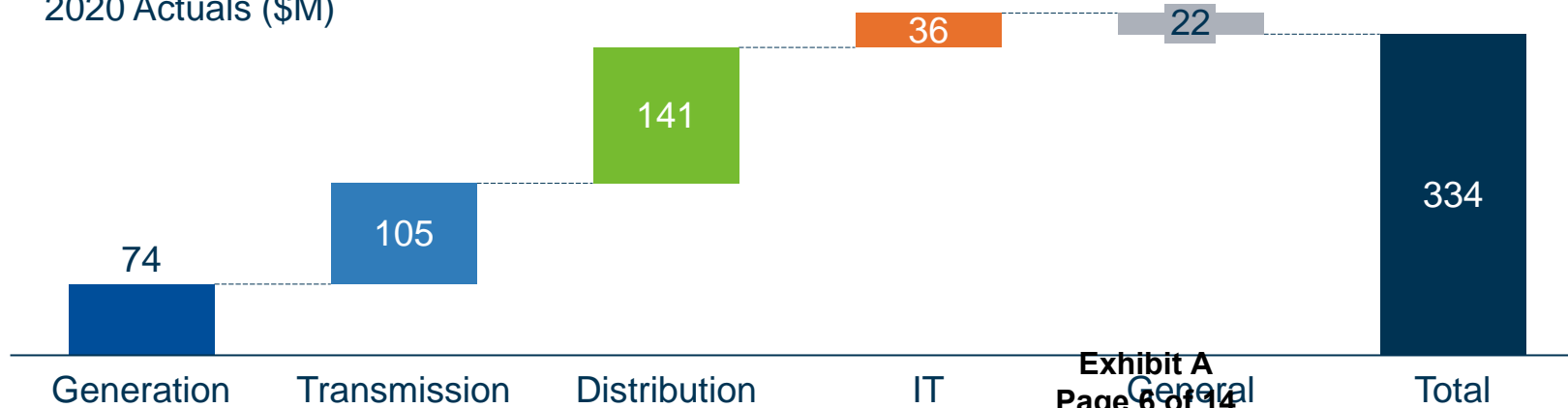
Grid Modernization Spend

% of 2020 Actuals



Missouri West – Capital Expenditures

2020 Actuals (\$M)



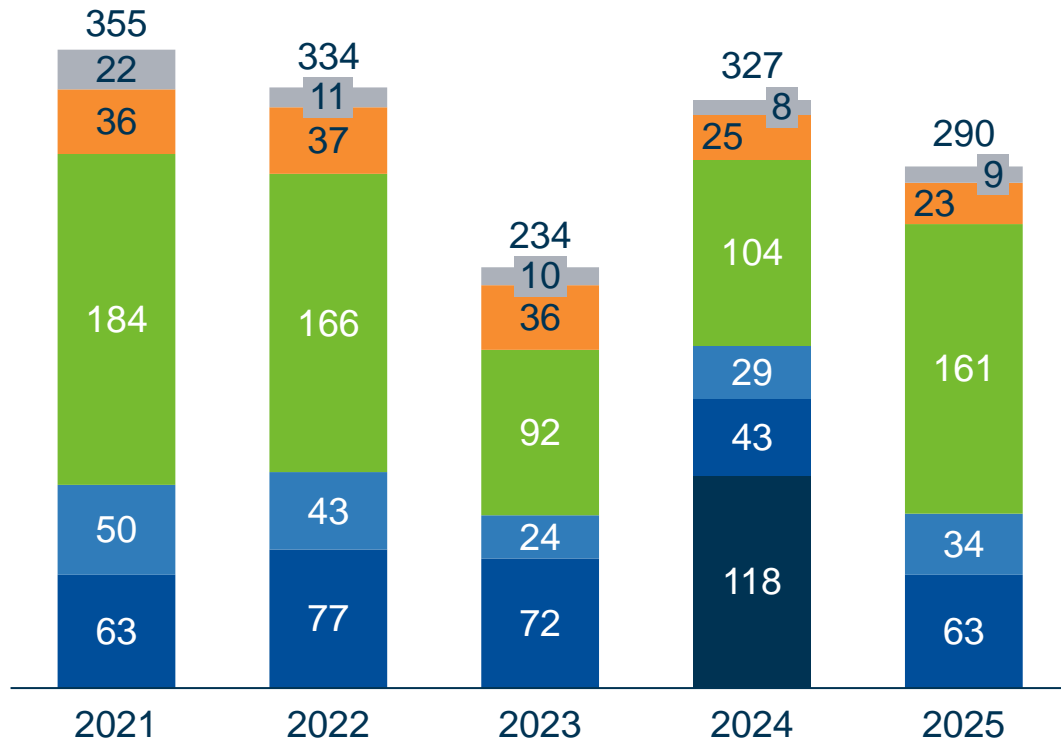
Grid Modernization Other



Evergy's Five-Year Capital Plan

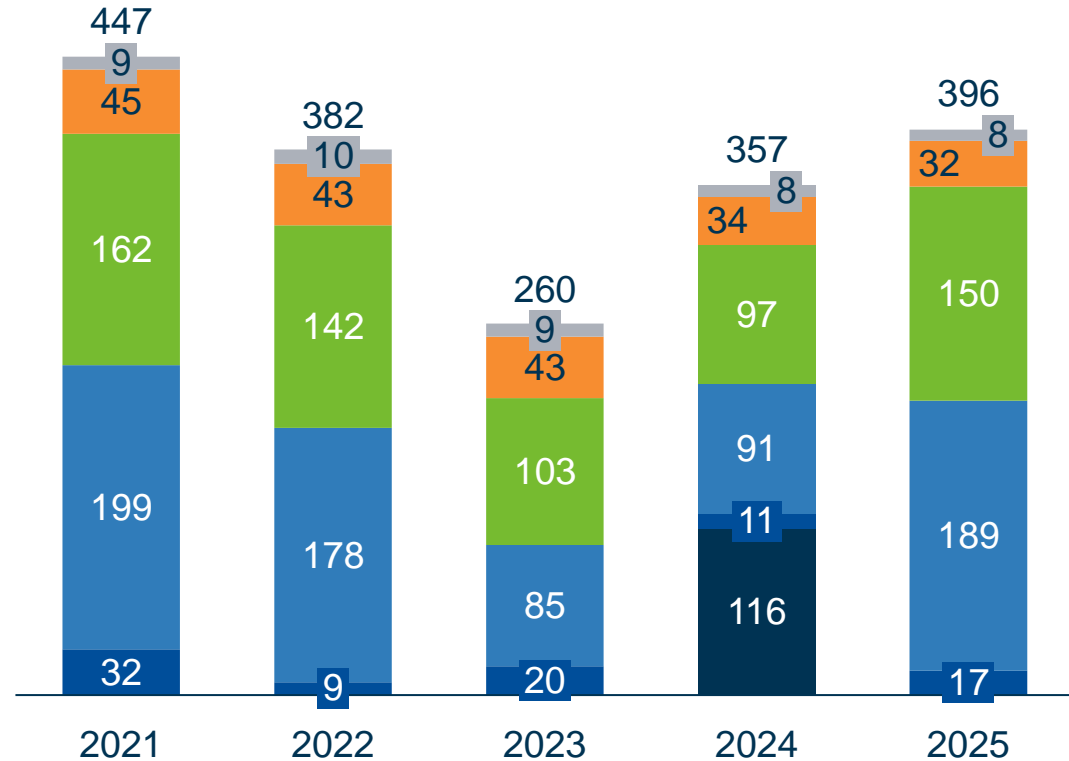
Continued investment in Missouri, focus on grid modernization

Missouri Metro (\$M)



58% Grid Modernization

Missouri West (\$M)



84% Grid Modernization

New Renewables
 Other Generation
 Transmission
 Distribution
 IT
 General



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

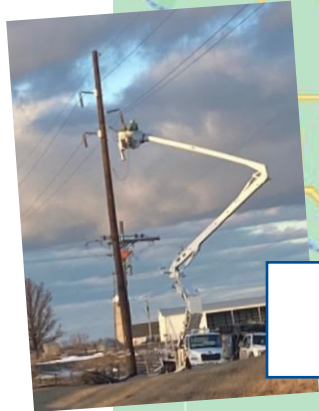
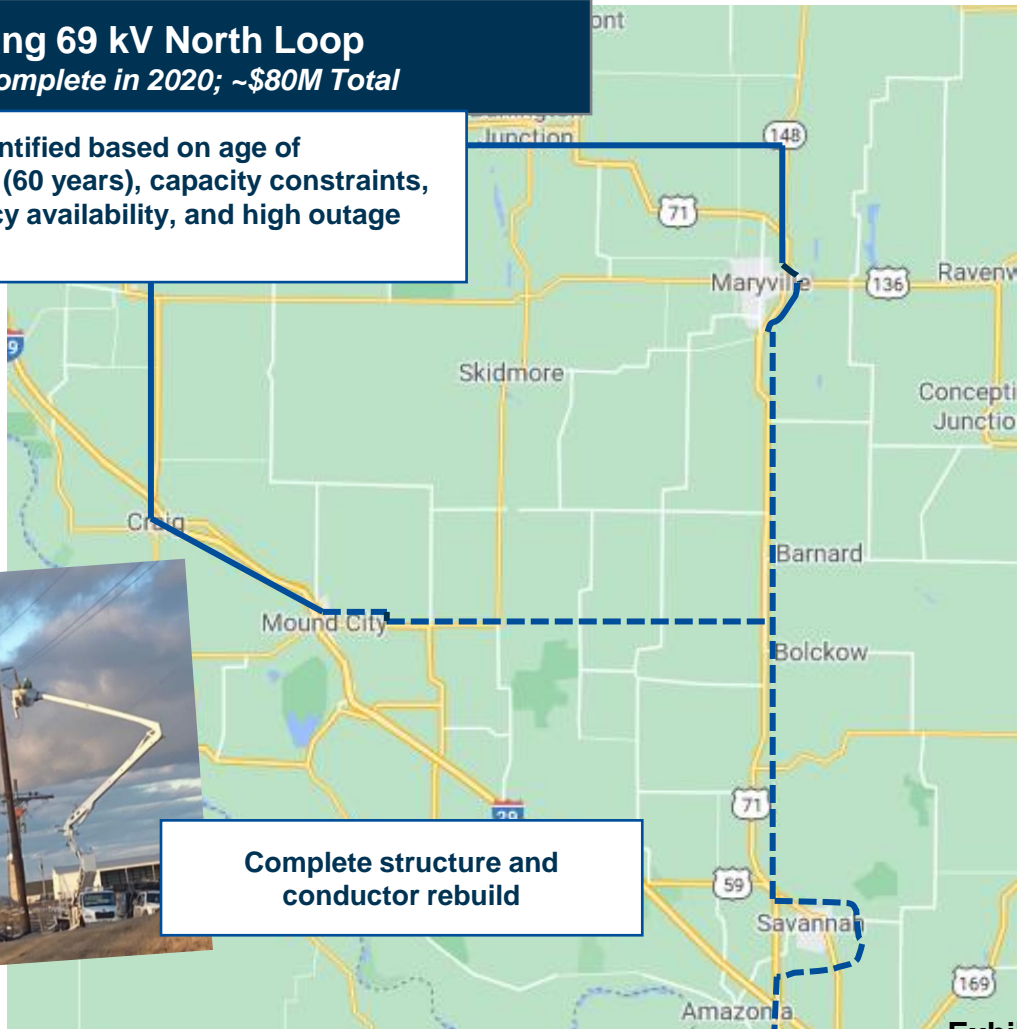
Grid Mod Benefits: Strategic Transmission Line Rebuilds

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

Rebuilding 69 kV North Loop

Partially complete in 2020; ~\$80M Total

Project identified based on age of equipment (60 years), capacity constraints, contingency availability, and high outage count



Complete structure and conductor rebuild

Blue Springs South to Duncan Rd 161kV

Completed in 2020; ~\$4M Total

Project identified to relieve congestion, reduce maintenance costs, and improve reliability



Replacing aged wood structures with steel poles



Illustrative route shown

— 2020 scope - - - 2021 scope

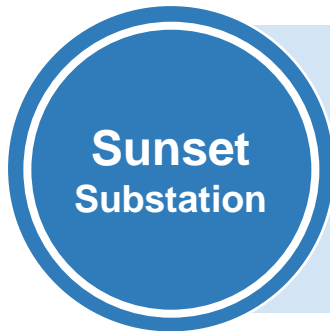


Grid Mod Benefits: Substation Equipment Upgrades

Create advanced capabilities and increased capacity in addition to improving resiliency



- Improves east Kansas City reliability including Truman Sports Complex and VA Medical Center
- Replaces antiquated substation equipment dating to 1960s
- Upgrades ampacity and operational flexibility



- New 161-12 kV substation replacing two aging 34-12 kV substations in St. Joseph
- Eliminates the flooding risk at Oak St substation
- Existing substation transformers are at or nearing capacity



- Improves area reliability including new KCI terminal
- New switchgears provide more reliable service utilizing micro-processor relays
- New transformer increases capacity



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

\$30M

2021-2025 spend



Residential Underground

Underground infrastructure feeding residential customers / neighborhoods

\$144M

2021-2025 spend

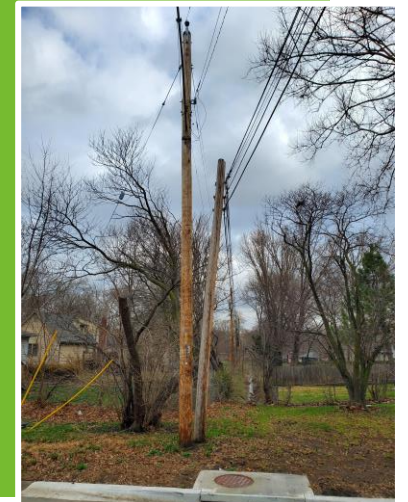


Residential Overhead

Overhead infrastructure feeding residential customers / neighborhoods

\$105M

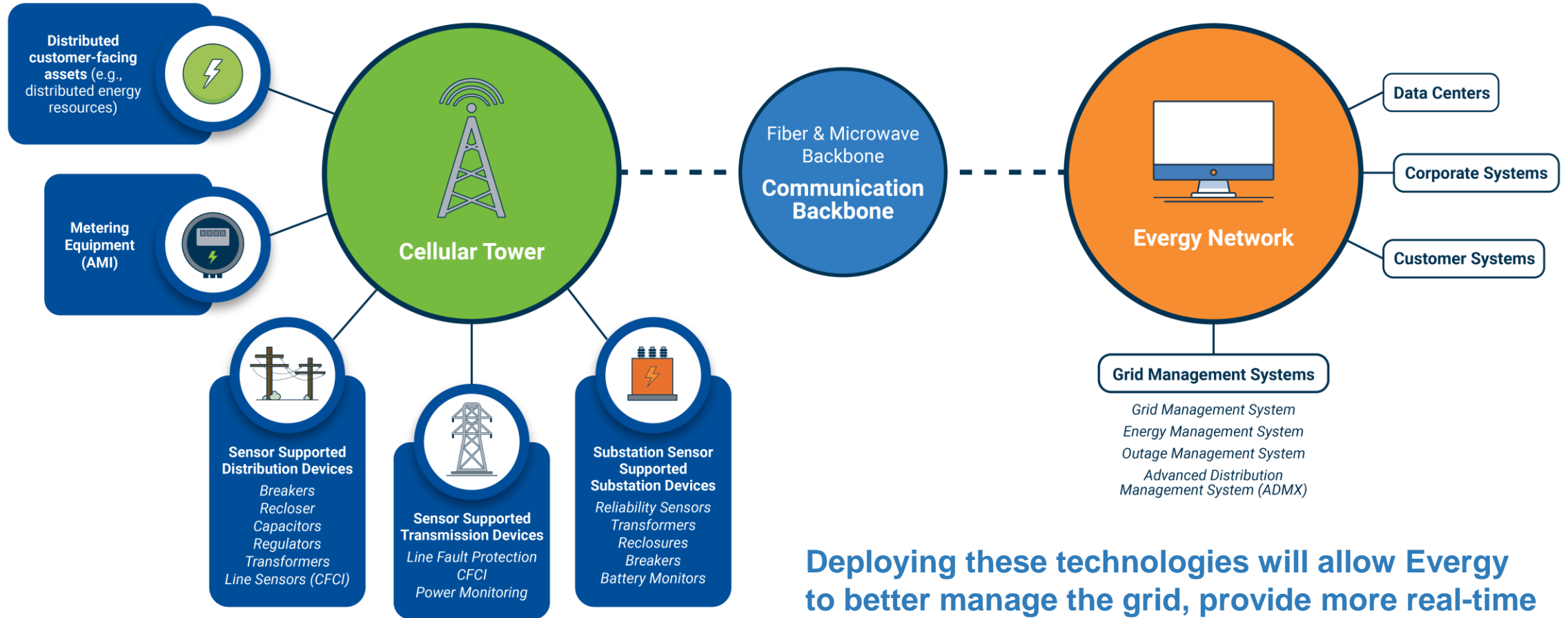
2021-2025 spend



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 Eversource to better manage the grid, provide more real-time information, and enable smoother integration of distributed energy resources



Eversource's Sustainability Transformation Plan (STP)

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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