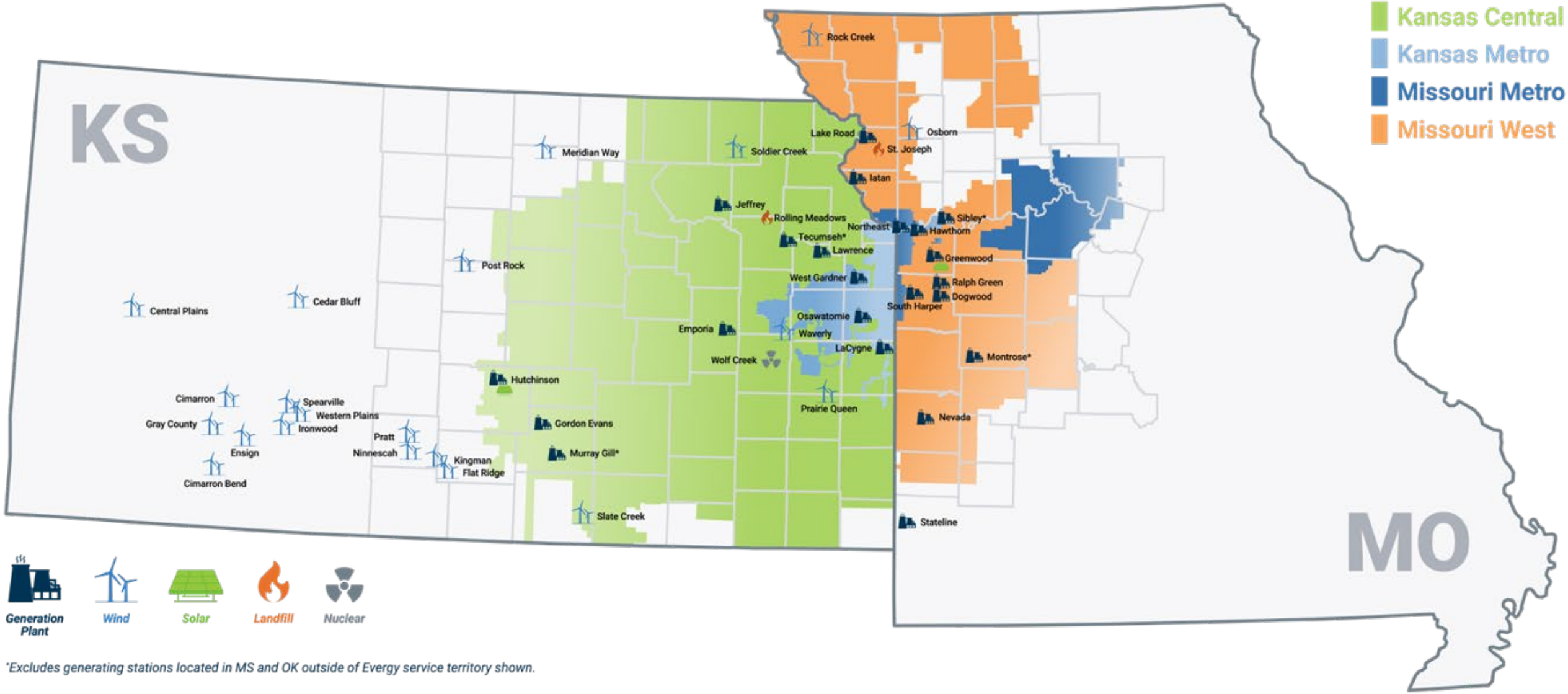
“All of the Above” – Meeting the Needs of all Customers

April 15th, 2026

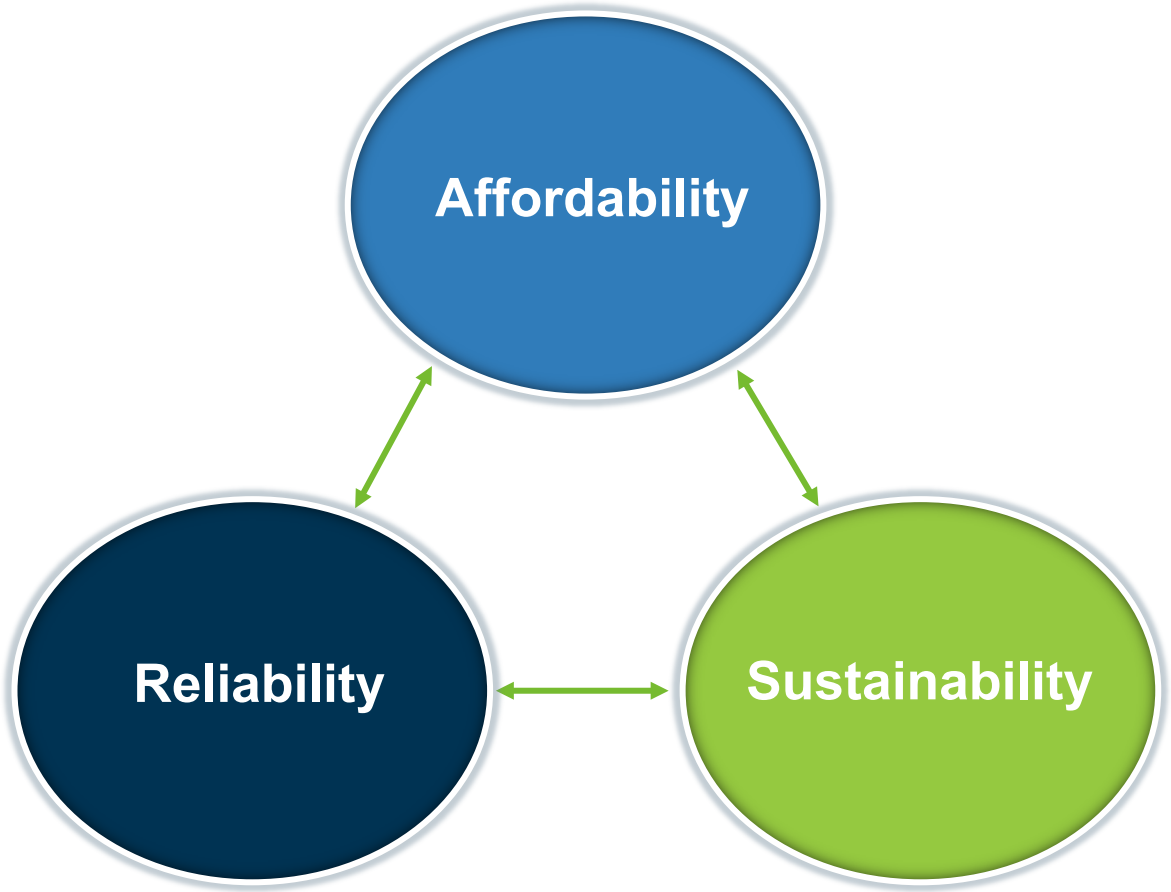
evergy

Evergy Service Territory & Generation Overview



*Excludes generating stations located in MS and OK outside of Evergy service territory shown.

Core Tenets of Evergy Strategy



- ✓ **Affordability**: Maintaining affordable rates while investing in infrastructure and technology to support growing customer demand
- ✓ **Reliability**: Targeting top-tier performance in reliability, customer service and generation
- ✓ **Sustainability**: Advancing "all-of-the-above" generation portfolio[1]

Focused on consistently delivering against our affordability, reliability, and sustainability objectives

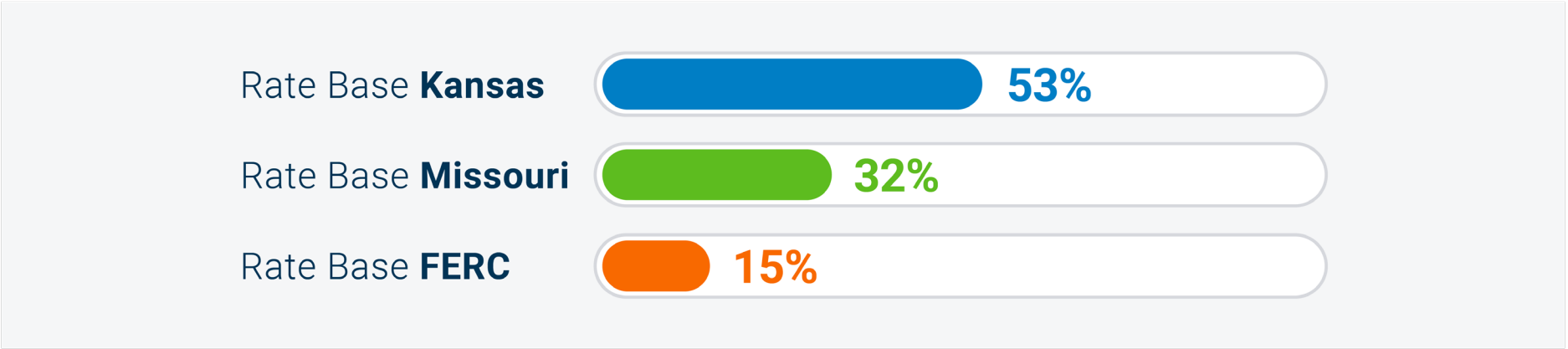
[1]Targets net zero CO2e by 2045 for scope 1 and scope 2 emissions; The trajectory and timing of achieving these further emissions reductions are expected to be dependent on the evolution of Evergy's integrated resource plans and many external factors, including enabling technology developments, trends in total demand for electricity, the reliability of the power grid, availability of transmission capacity, supportive energy policies and regulations, and other factors.

Who are Evergy's Customers?

~1,500,000
RESIDENTIAL CUSTOMERS

~200,000
COMMERCIAL CUSTOMERS

~6,100
INDUSTRIAL CUSTOMERS



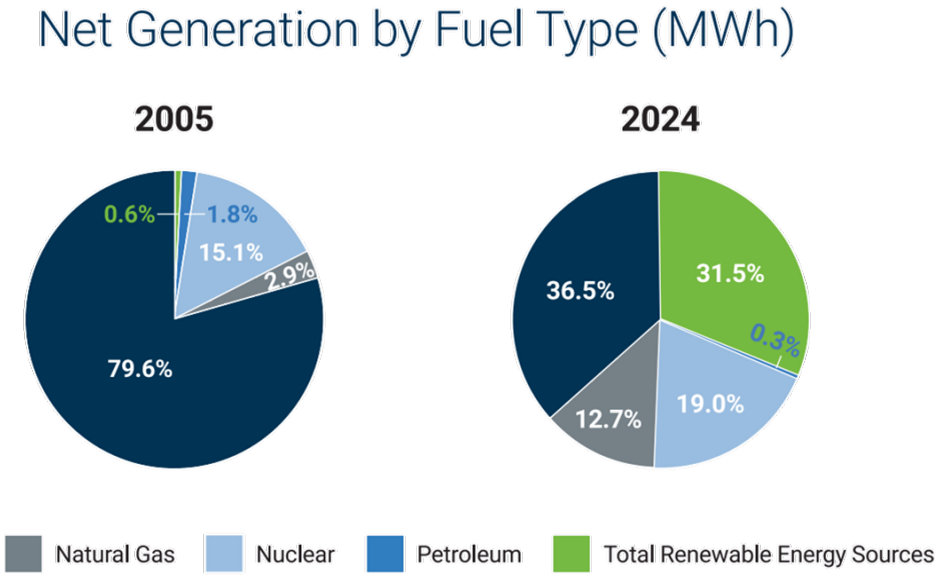
Statistics as of Q4 2024.

Major Themes For IRP Annual Update

- **Annual Review:** Conduct annual review of Integrated Resource Plan, evaluating key assumptions and analyzing scenarios to identify the Preferred Plan with the lowest net present value revenue requirement
- **Resource Adequacy Needs:** Develop near-term (next 5-10 years) plan to meet increasing capacity requirements, including assessment of new Large Load Customers
- **Relative Technology Economics:** Retest the 2027-2030 solar and natural gas generation resource build decisions based on latest construction cost information
- **Carbon Restrictions:** Evaluate impacts of EPA's Greenhouse Gas (GHG) Rule and identify preliminary compliance path

Evergy's Energy Mix – Past and Present

With about 50% of our energy mix coming from emission-free sources, Evergy has a diverse energy mix that includes: wind, solar, natural gas, nuclear, biogas, hydro, and coal.



Achieved Emissions Reductions Since 2005

- **47%** CO_2 emissions
- **98%** SO_2 emissions
- **89%** NO_x emissions

How We Plan - Evergy IRP Modeling Overview

Calculating expected costs of alternative portfolios under different futures

Base-level inputs
(not exhaustive)

- New build costs
- Fuel costs
- Market prices
- Load forecast
- DSM potential
- Carbon restriction

IRP model selects portfolios that solve for customers' capacity and energy needs over next 20 years

Fixed Costs
- Annual capital carrying costs (e.g., depreciation, rate of return)
- Fixed O&M

+

Variable Production Costs
- Fuel expense based on hourly dispatch
- Variable O&M based on hourly dispatch
- Wholesale market revenues and charges

=

$ 20-year NPVRR

Modeling Overview: Plan Economics

Calculate the expected costs under different futures

- Plans selected through capacity expansion will all be viable for meeting capacity requirements
- Varying "critical uncertain factors" will change plan economics
  - Natural gas prices
  - Carbon dioxide emissions limits
  - Construction costs
- NPVRR calculated for each future combination of uncertain factors
- Results are combined to get an expected risk-weighted outcome
  - Future endpoints weighted by probability of occurrence

Capacity Expansion results:

- Plan 1
- Plan 2
- Plan 3
- Plan 4
- Plan 5
- Plan 6
- Plan 7
- Plan 8
- Plan 9
- Plan 10

Endpoint	Construction Costs	Natural Gas	CO_2	Endpoint Probability	
1	High	High	High	1.6%	
2	High	High	Mid	3.1%	
3	High	High	Low	1.6%	
4	High	Mid	High	3.1%	
5	High	Mid	Mid	6.3%	25%
6	High	Mid	Low	3.1%	
7	High	Low	High	1.6%	
8	High	Low	Mid	3.1%	
9	High	Low	Low	1.6%	
10	Mid	High	High	3.1%	
11	Mid	High	Mid	6.3%	
12	Mid	High	Low	3.1%	
13	Mid	Mid	High	6.3%	
14	Mid	Mid	Mid	12.5%	50%
15	Mid	Mid	Low	6.3%	
16	Mid	Low	High	3.1%	
17	Mid	Low	Mid	6.3%	
18	Mid	Low	Low	3.1%	
19	Low	High	High	1.6%	
20	Low	High	Mid	3.1%	
21	Low	High	Low	1.6%	
22	Low	Mid	High	3.1%	
23	Low	Mid	Mid	6.3%	25%
24	Low	Mid	Low	3.1%	
25	Low	Low	High	1.6%	
26	Low	Low	Mid	3.1%	
27	Low	Low	Low	1.6%	

Endpoint probabilities are illustrative

Endpoint weighted-average 20-year NPVRR

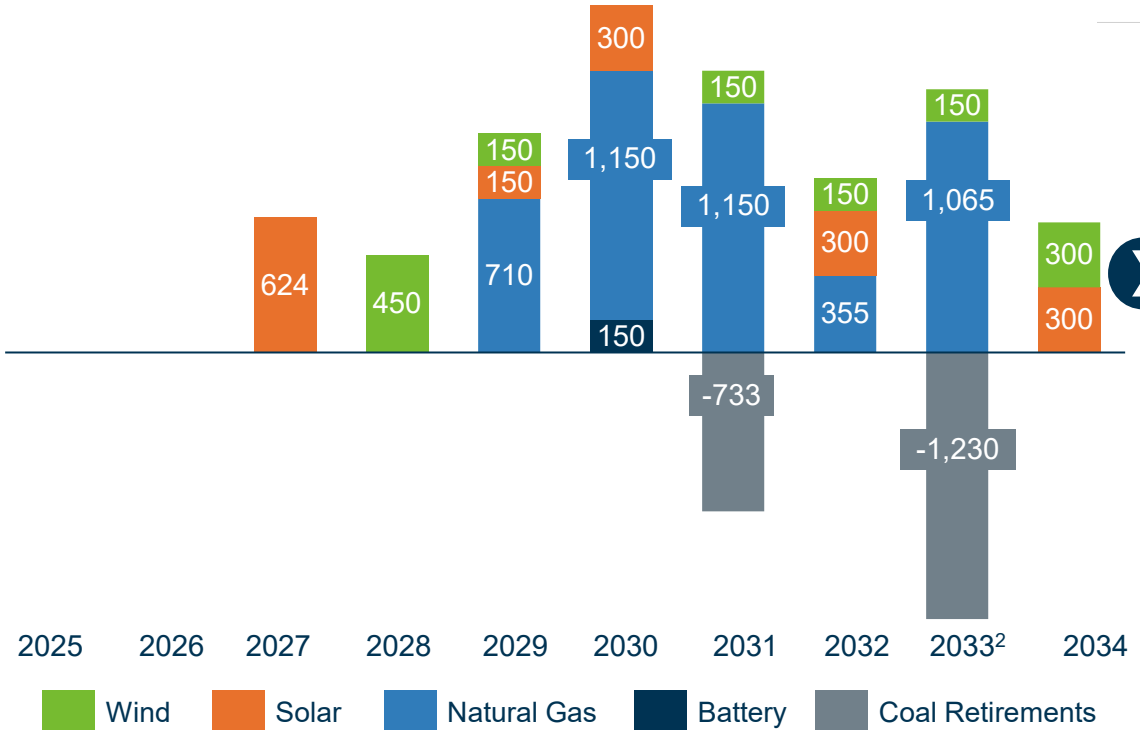
- Plan 7
- Plan 5
- Plan 8
- Plan 4
- Plan 2
- Plan 10
- Plan 1
- Plan 3
- Plan 9
- Plan 6

Least expensive

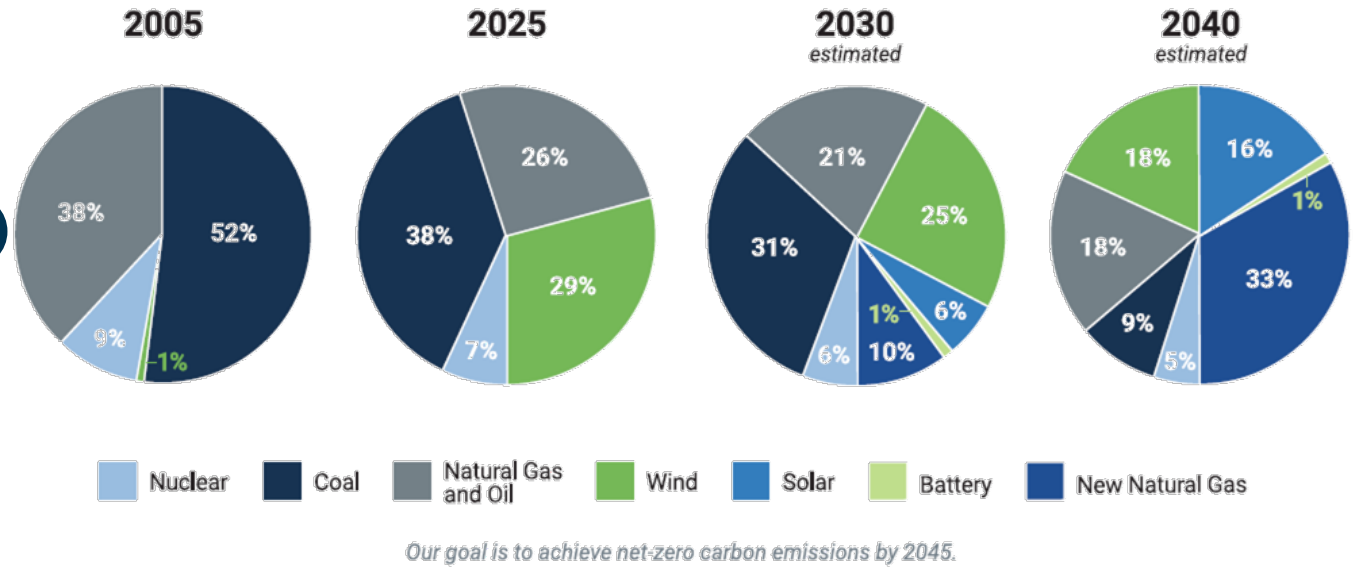
Most expensive

2025 IRP Update – “All of the Above”

2025 IRP Update (May 2025)
Projected Additions & Retirements (MW)[1]



Estimated Generation Capacity by Fuel Type



Our goal is to achieve net-zero carbon emissions by 2045.

The 2025 IRP update adds significant generation through 2034 to support economic growth and reliability as compared to the 2024 update.

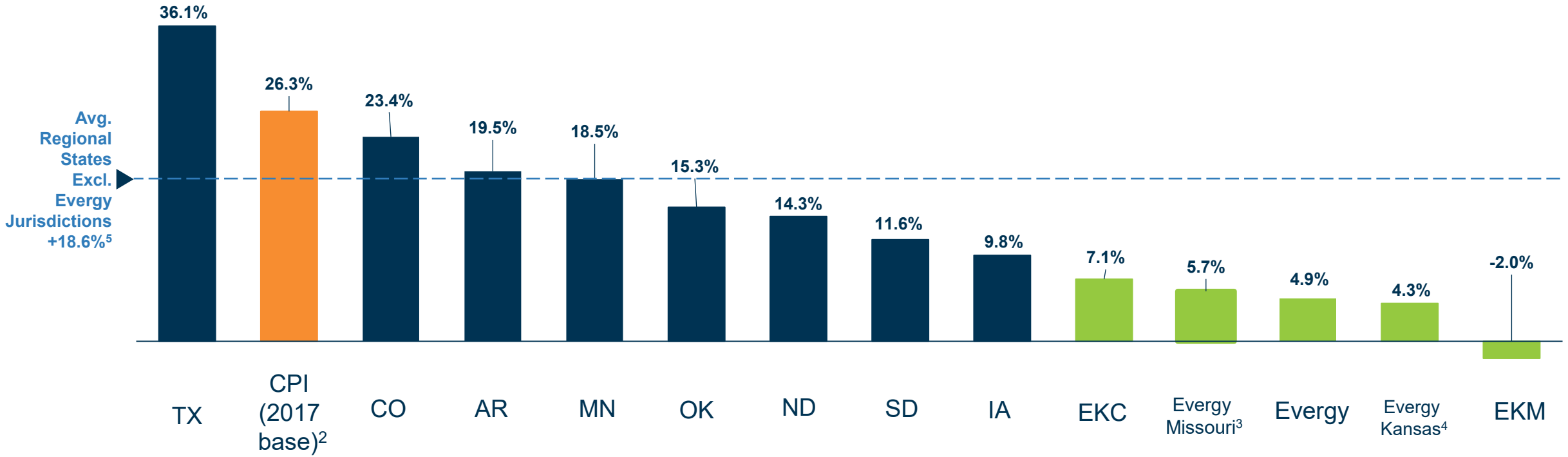
Converting Tier 1 Large Load Customer Pipeline to Electric Service Agreements

Pipeline Category	Peak GW Potential	Commentary
Tier 1 **Active Operations and Signed ESAs**	**~2.4**	• Includes projects already in operation progressing toward a steady-state of 450 MW • Includes 1.9 GWs of newly executed ESAs or near final ESAs under the LLPS • LLPS customers pay a premium demand rate ~15-20% higher than the standard industrial rate • Recent announcements include ESAs for 4 projects (2 new, 2 expansions)
Remaining Tier 1 **Advanced Discussions**	**~2.0-3.5**	• Expect at least one more executed large customer ESA in 2026 • Represents multiple customers that have acquired land or land rights, signed letters of agreement, and for which transmission and generation capacity solutions are under review • Financial commitments received; further agreements to be executed
Tier 2	**10+**	• Incremental pipeline not yet in active Path to Power queue as Evergy evaluates opportunity to serve, and is well in excess of 10 GWs

Tier 1 large load customers will empower growth, investments and drive prosperity for our region; LLPS tariffs provide protections for existing customers and ensure large customers pay their fair share of system costs

Affordability: Residential Rates

Residential Rate Change from 2017 to 2024[1]



Residential rates increased less than every neighboring states since Westar and KCP&L combined to become Evergy

Source: Evergy Ledger, EIA, and Bureau of Labor Statistics

1) Regional state data is sourced from EIA and is comprised of revenues and sales for all sectors, with 2024 data using a rolling twelve-month average of rates ending December 2024. EIA data is preliminary that is subject to change, with 2024 data to be finalized in October 2025.

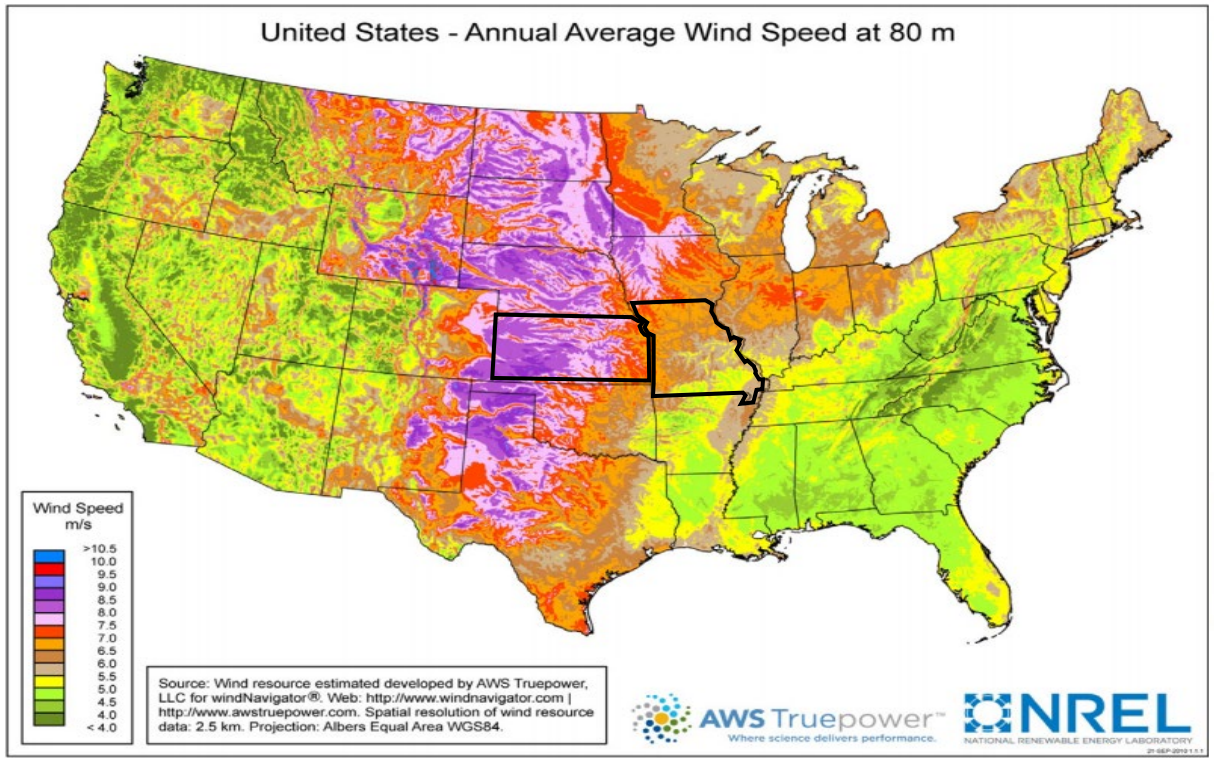
2) US Bureau of Labor Statistics for historic CPI-U uses rolling twelve-month average ending December 2024.

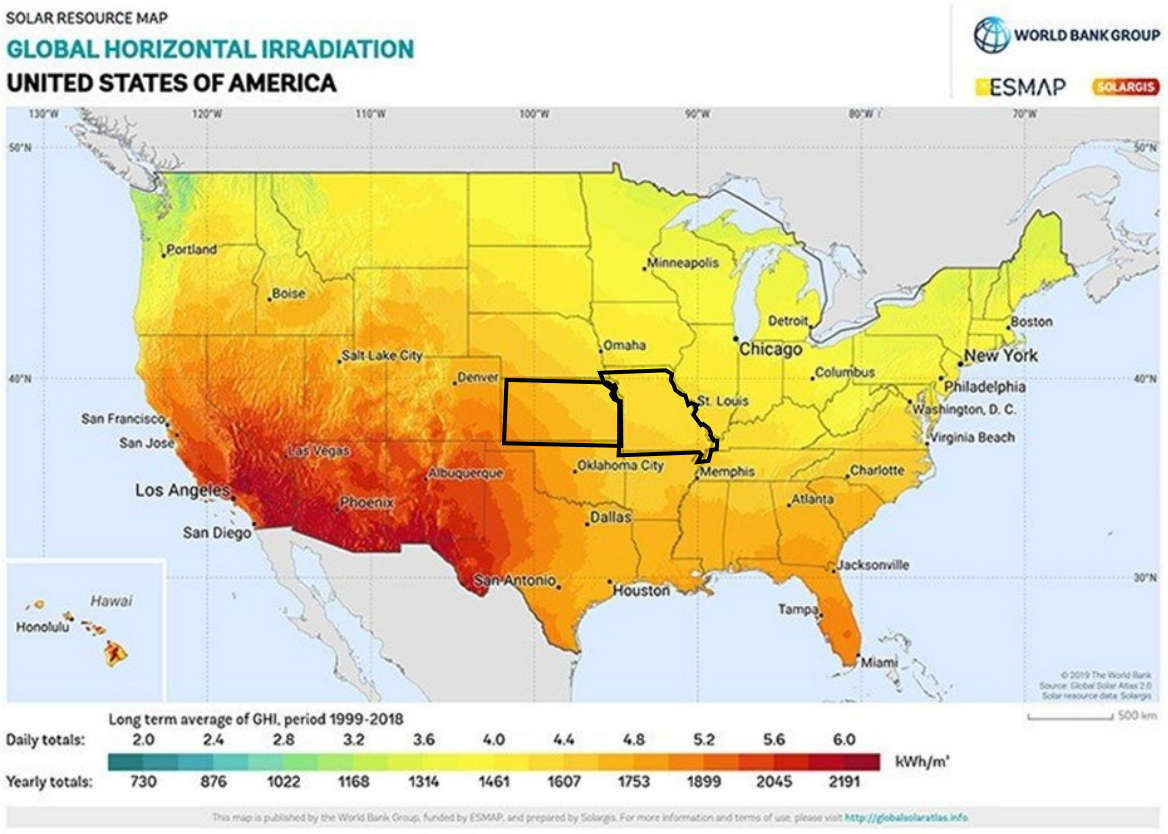
3) Evergy Missouri is a composite jurisdiction made up of the sum of the Evergy Missouri Metro and Evergy Missouri West jurisdictions.

4) Evergy Kansas is a composite jurisdiction made up of the sum of the Evergy Kansas Metro and Evergy Kansas Central jurisdictions.

5) 18.6% is the simple average of the eight states' percentage change. Using a sales weighted average, the average rate is 28.6%

Evergy is geographically Goldilocks for “All of the above”





Evergy is uniquely positioned for excellent solar and wind resources as well as support of natural gas a lower-carbon bridge fuel. Top 5 wind potential and Top 10 solar potential.

Power Plant Specifics

evergy

Sumner County/Viola 1x1 CCGT – 2029 Operation

Metric	Value
Plant Planning Name	Viola
Plant Output	710 MW
Fuel Supply	Single Fuel – Natural Gas
Location	Sumner County, KS
Plant Efficiency (%LHV) at ISO	~64%
Minimum Emission Compliant Load	22% (154 MWs) – Short durations on bypass
Proposed Ownership	50% - Evergy Kansas Central 50% - Evergy Missouri West

Viola is located in Sumner County, Kansas in adjacent to a 345 kV substation. While electrical infrastructure is at the site, a ~20 mile gas spur will be required to run natural gas to the site. The gas pipeline is to be constructed and owned by the pipeline company.

Reno County/McNew 1x1 CCGT – 2030 Operation

Metric	Value
Plant Planning Name	McNew
Plant Output	710 MW
Fuel Supply	Single Fuel – Natural Gas
Location	Hutchinson, KS
Plant Efficiency (%LHV) at ISO	~64%
Minimum Emission Compliant Load	22% (154 MWs) - Short durations on bypass
Proposed Ownership	50% - Evergy Kansas Central 50% - Evergy Missouri West

McNew is located in Reno County, Kansas in a salt production community adjacent to natural gas infrastructure. While natural gas is close to the site, an ~12-mile 345 kV generator tie line will be needed to get to the point of grid interconnection.

Douglas County/Kansas Sky – 2027 Operation

Metric	Kansas Sky
Project Name	Kansas Sky
Developer	Evergy + Savion
Location	Douglas County, KS
Fuel	Sunlight
Plant Output	159 MWac
Estimated Net Capacity Factor	24.2%
Max PTC/ITC qualification	110% PTC/40% ITC
Proposed Ownership	100% Evergy Kansas Central

Kansas Sky is located in Douglas County, Kansas across the river from Lawrence Energy Center. The proposed solar farm is in an Energy Community due to the retirement of the Lawrence 3 coal plant. The project is adjacent to the point of electrical interconnection at the Midland Substation.

Nodaway County/Mullin Creek #1 SCGT– 2030 Operation

Metric	Value
Plant Planning Name	Mullin Creek #1
Plant Output	440 MW
Fuel Supply	Dual Fuel – Natural Gas & Fuel Oil
Location	Nodaway County, MO
Plant Efficiency (%LHV) at ISO	~44%
Minimum Emission Compliant Load	35% (154 MWs)
Proposed Ownership	100% - Evergy Missouri West

Mullin Creek #1 is located in Nodaway County, Missouri adjacent to a large 345 kV substation. While electrical infrastructure is at the site, a gas line will be required to run natural gas to the facility. The gas pipeline is to be constructed and owned by the pipeline company.

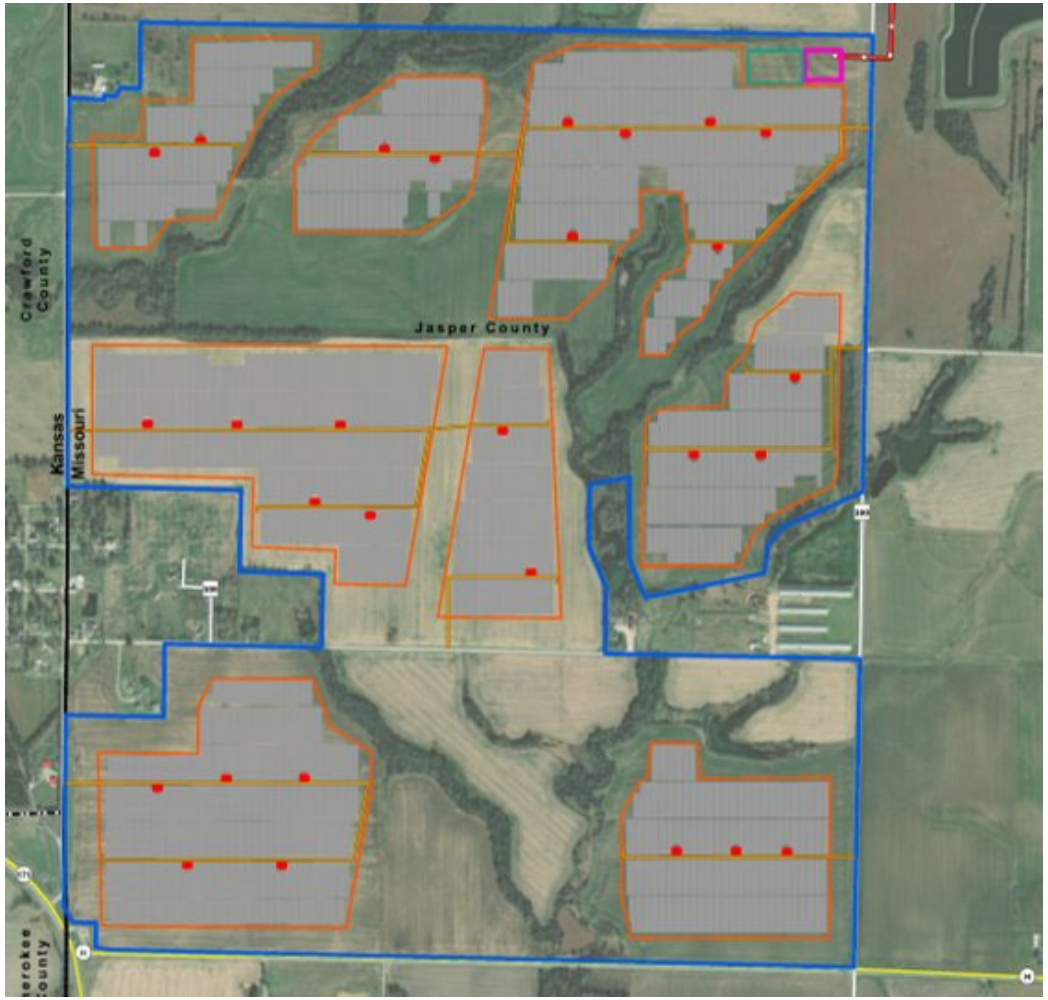
Wilson County/Sunflower Sky – 2027 Commercial Operation

Metric	Sunflower Sky
Project Name	Sunflower Sky
Developer	Evergy + Savion
Location	Wilson County, KS
Fuel	Sunlight
Plant Output	65 MWac
Estimated Net Capacity Factor	28.4%
Max PTC/ITC qualification	100% PTC/30% ITC
Proposed Ownership	100% Evergy Missouri West

Sunflower Sky is located in Wilson County, Kansas across the street from an existing Evergy substation for its point of interconnection.

Jasper County/Foxtrot Solar – 2027 Commercial Operation

Metric	Foxtrot
Project Name	Foxtrot Solar
Developer	Invenergy
Location	Jasper County, Missouri
Fuel	Sunlight
Plant Output	100 MWac
Estimated Net Capacity Factor	26.7%
Max PTC/ITC qualification	110% PTC/40% ITC
Proposed Ownership	100% Evergy Missouri West



Foxtrot is located in Jasper County, Missouri in an Inflation Reduction Act Energy Community for the retirement of the Asbury coal plant.

Thank You

Jason Humphrey
Evergy
Vice President Development