



2024 Integrated Resource Plan Update

April 1, 2024

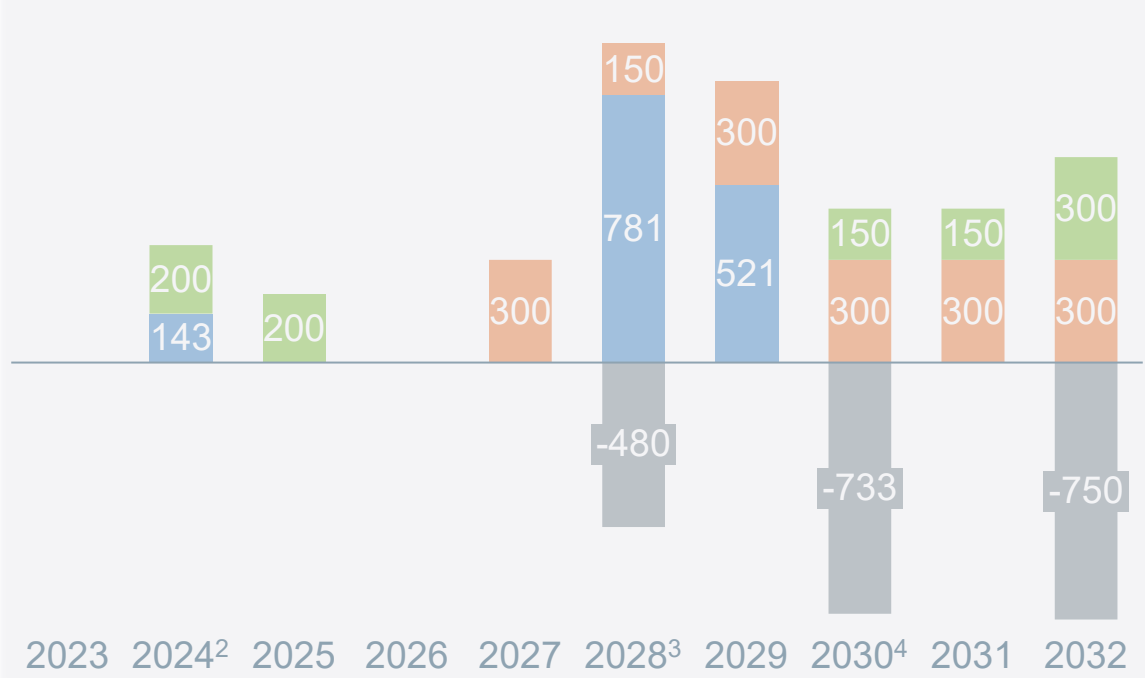




Evergy 2023 vs. 2024 IRP Update

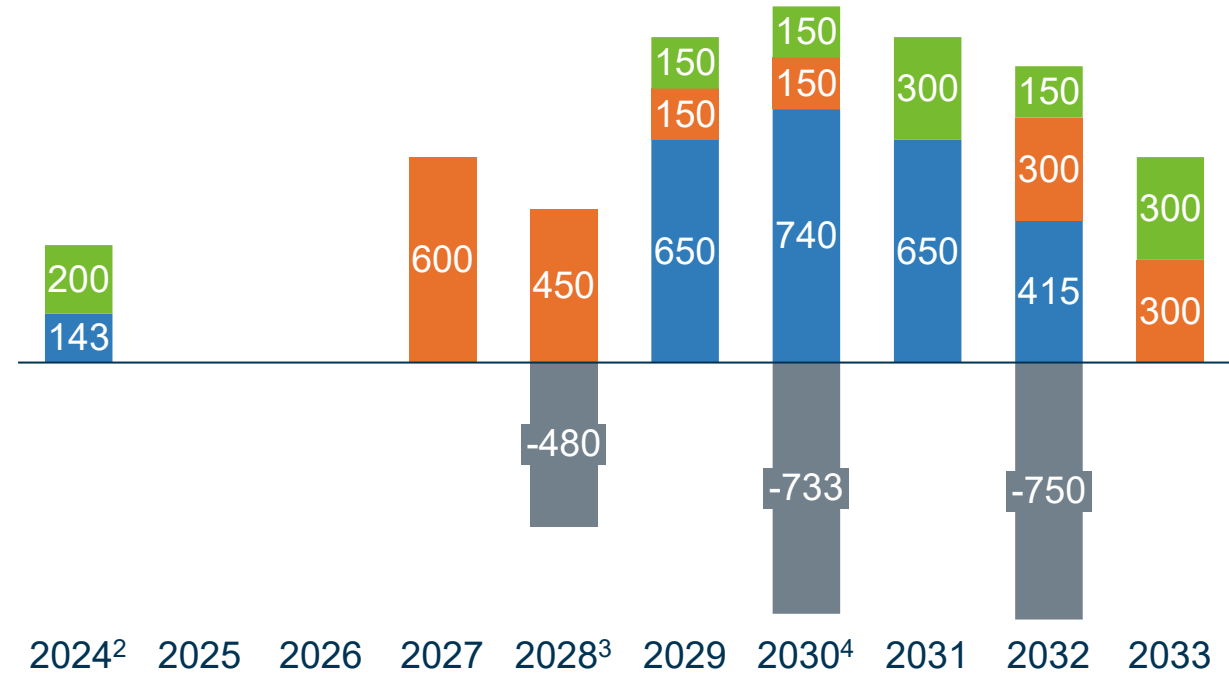
2023 IRP Update (June 2023)

Projected Additions & Retirements (MW)¹



2024 IRP Update (April 2024)

Projected Additions & Retirements (MW)¹



Wind Solar Natural Gas⁵ Coal Retirements

2024 IRP Update adds 1,500MW in the next 10 years relative to the 2023 update. In tandem with beneficial grid modernization projects, 2024-2028 capital investment plan and rate base growth are in line with 4Q 2023 update.

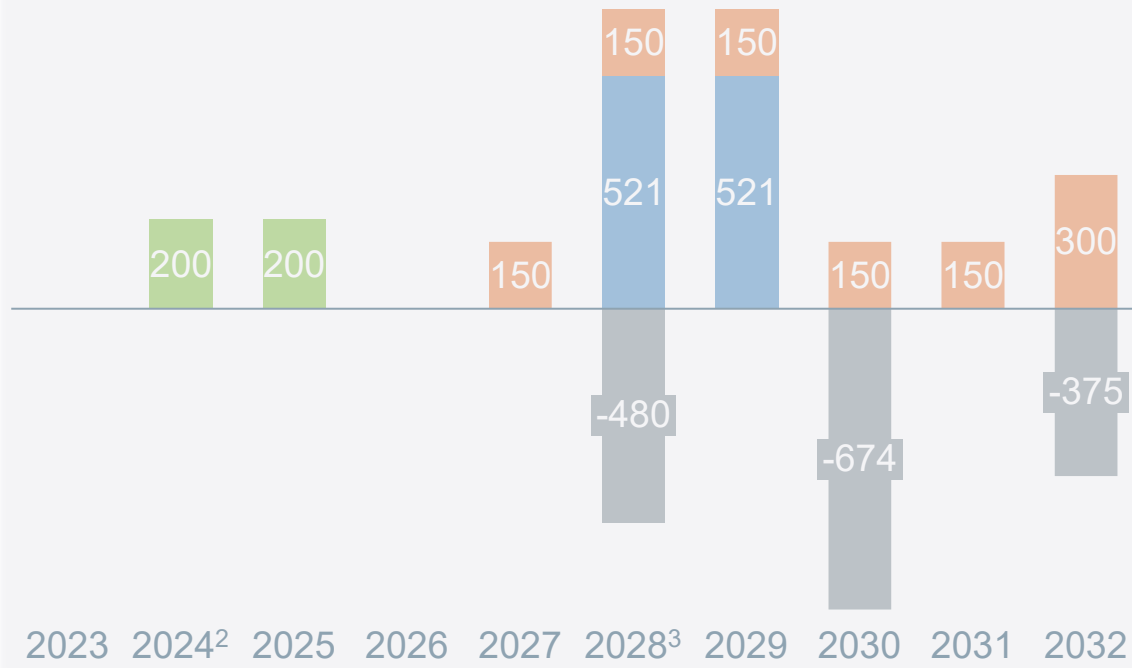
¹Reflects January 1 in-service and December 31 retirement date in each respective year ²Reflects Persimmon Creek acquisition completed in 2023 ³Lawrence Unit 4 (107MW) retires and Unit 5 (373MW) transitions to gas only (338MW) ⁴Preferred plan includes a placeholder for an additional coal unit retirement in 2030 ⁵Forecasted natural gas additions across 2029-2032 are hydrogen-enabled



Evergy Kansas Central 2023 vs. 2024 IRP Update

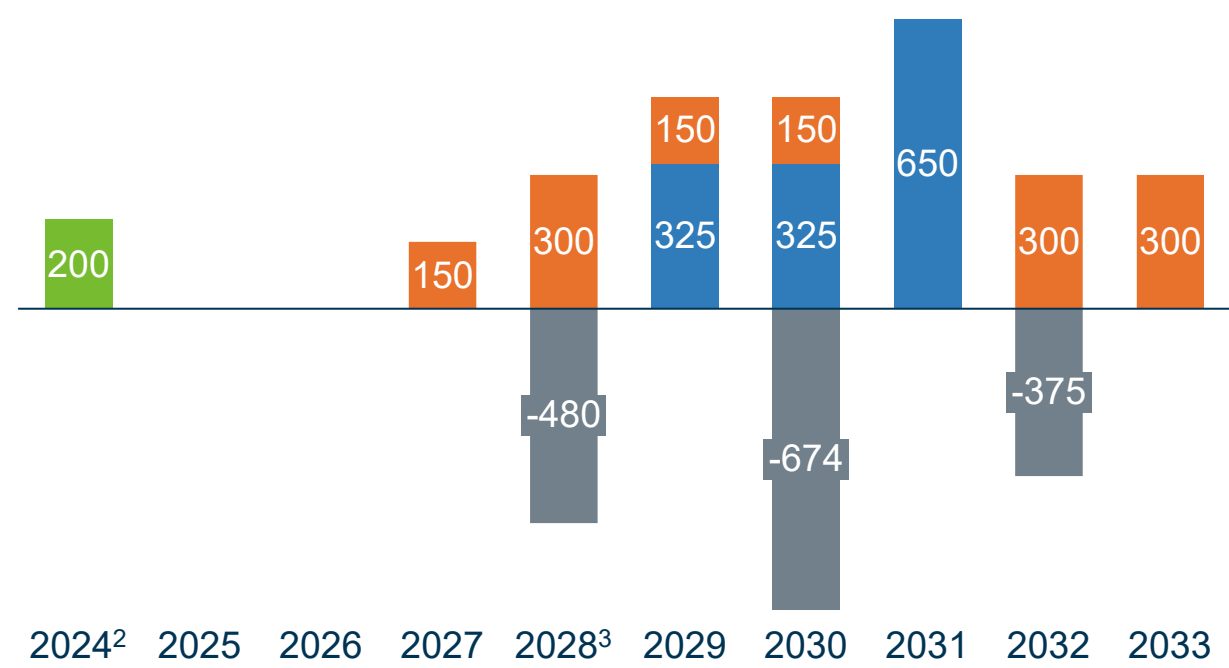
2023 IRP Update (June 2023)

Projected Additions & Retirements (MW)¹



2024 IRP Update (May 2024)

Projected Additions & Retirements (MW)¹



Wind Solar Natural Gas⁴ Coal Retirements⁵

2024 IRP Update adds 360MW over the next 10 years relative to the 2023 update

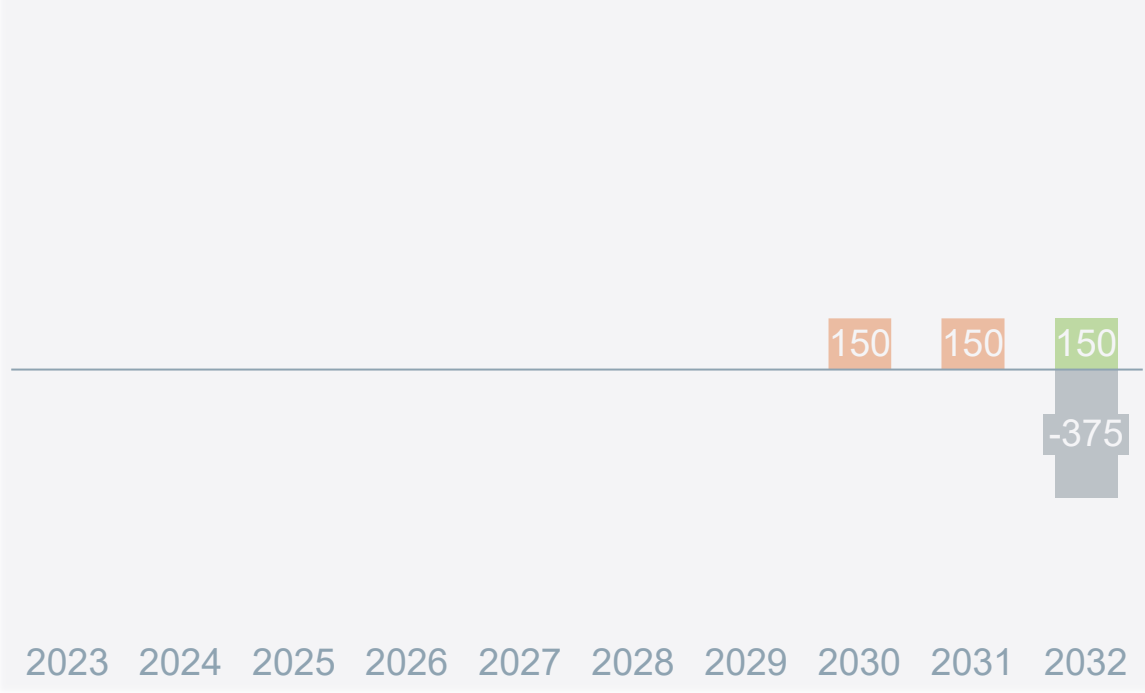
¹Reflects January 1 in-service and December 31 retirement date in each respective year ²Reflects Persimmon Creek acquisition completed in 2023 ³Lawrence Unit 4 (107MW) retires and Unit 5 (373MW) transitions to gas only (338MW) ⁴Preferred plan includes a placeholder for an additional coal unit retirement in 2030 ⁵Forecasted natural gas additions across 2029-2032 are hydrogen-enabled



Evergy Metro 2023 vs. 2024 IRP Update

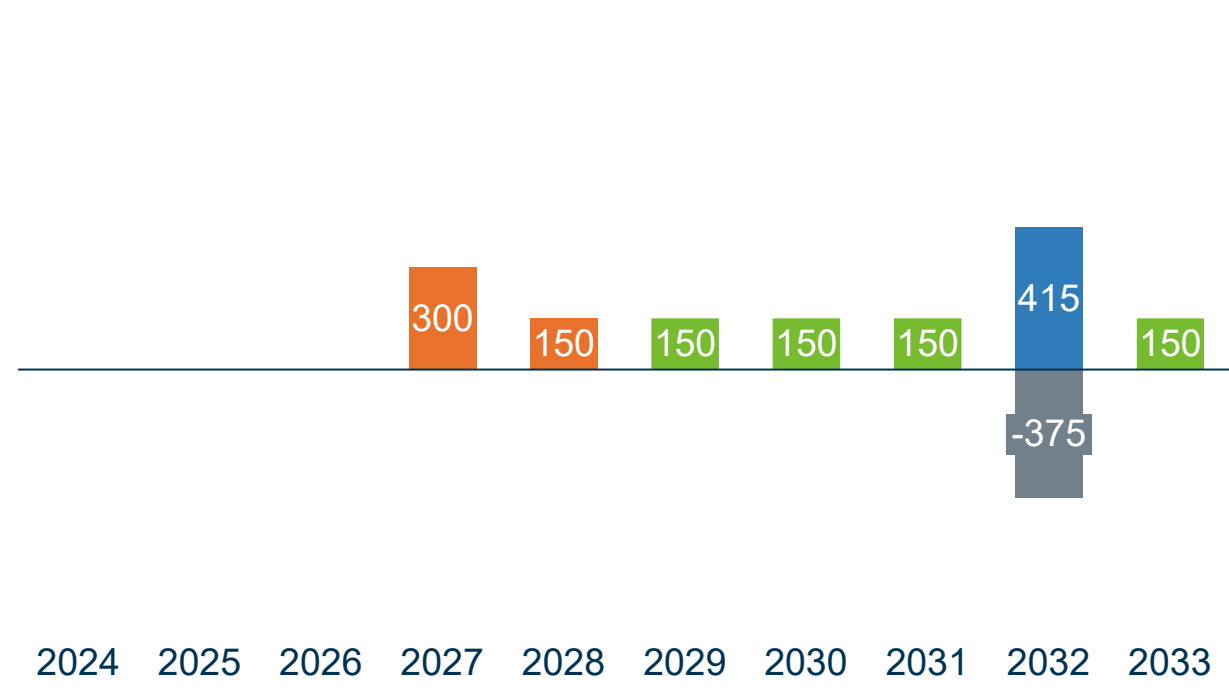
2023 IRP Update (June 2023)

Projected Additions & Retirements (MW)¹



2024 IRP Update (April 2024)

Projected Additions & Retirements (MW)¹



Wind Solar Natural Gas² Coal Retirements³

Forecasted resource additions support anticipated load from the Google data center and positive underlying demand trends

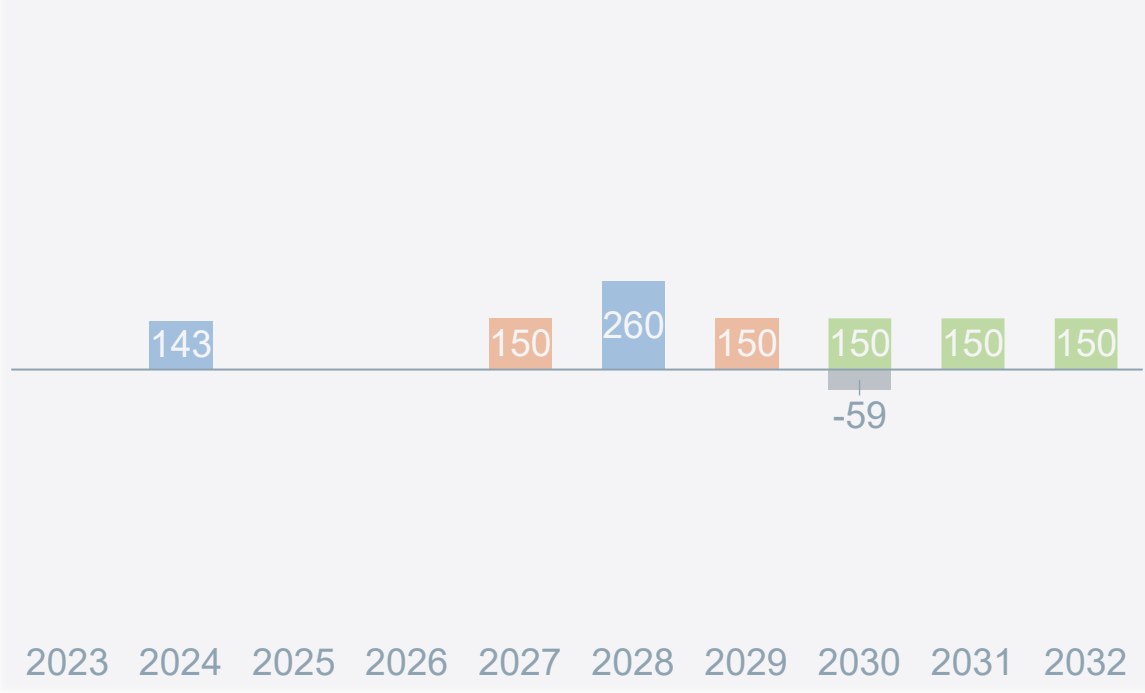
¹Reflects January 1 in-service and December 31 retirement date in each respective year ²Forecasted combustion turbine addition in 2032 is hydrogen-enabled ³Reflects Metro's proportional ownership



Evergy Missouri West 2023 vs. 2024 IRP Update

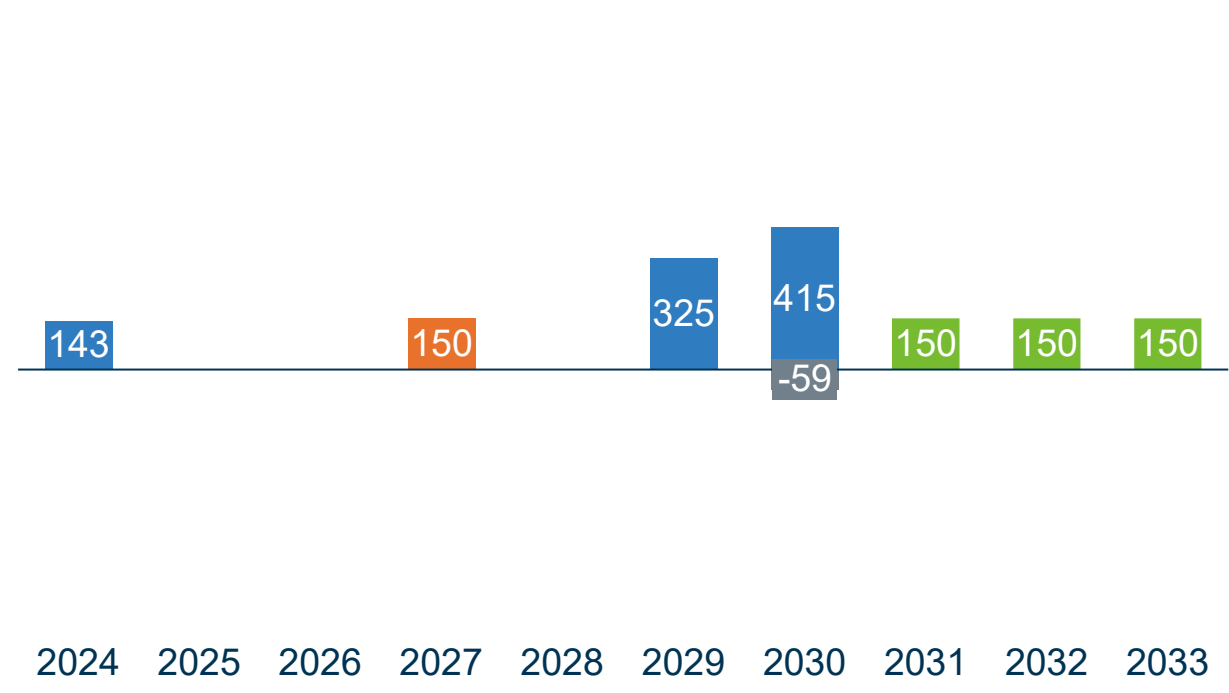
2023 IRP Update (June 2023)

Projected Additions & Retirements (MW)¹



2024 IRP Update (April 2024)

Projected Additions & Retirements (MW)¹



Wind Solar Natural Gas² Coal Retirements³

Building natural gas to support reliability and affordability for our Missouri West customers

¹Reflects January 1 in-service and December 31 retirement date in each respective year ²Forecasted combined-cycle and combustion turbine additions in 2029 and 2030, respectively, are hydrogen-enabled ³Reflects Missouri West's proportional ownership