## New Mexico Energy Data Monthly

EIA Release for January 2024



Evan Rogers, Economist Energy Planning Bureau April 2024

Energy, Minerals and Natural Resources Department

#### Key Takeaways for January 2024

- Renewable generation as a percent of total retail sales was well above the 40% 2025 RPS
- Wind production fell year over year
- Coal generation filled the production gap left by wind
- Utility and small-scale solar generation continued to accelerate vs. prior years
- Power-related CO2 emissions increased from January 2023
- Double-digit growth in EV electricity consumption trailed that of other western states

# Is statewide renewable energy generation on track to meet statutory requirements?

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#### New Mexico's Renewable Portfolio Standard

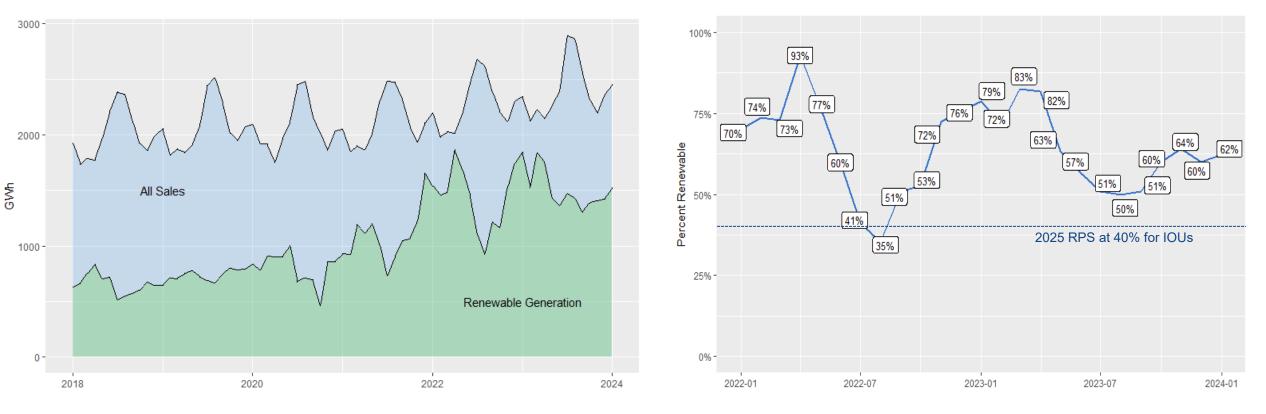
- no later than January 1, 2015, renewable energy shall comprise no less than fifteen percent of each public utility's total retail sales to New Mexico customers;
- no later than January 1, 2020, renewable energy shall comprise no less than twenty percent of each public total retail sales to New Mexico customers;
- no later than January 1, 2025, renewable energy shall comprise no less than <u>forty percent</u> of each public utility's total retail sales to New Mexico customers;
- no later than January 1, 2030, renewable energy shall comprise no less than <u>fifty percent</u> of each public utility's total retail sales to New Mexico customers;
- no later than January 1, 2040, renewable energy resources shall supply no less than <u>eighty percent</u> of all retail sales of electricity in New Mexico, provided that compliance with this standard until December 31, 2047 shall not require the public utility to displace zero carbon resources in the utility's generation portfolio as of June 14, 2019; and
- no later than January 1, 2045, zero carbon resources shall supply one hundred percent of all retail sales of electricity in New Mexico. Reasonable and consistent progress shall be made over time toward this requirement.

#### N.M. Code R. § 17.9.572.10



January 2024 renewables underperformed vs 2023 but increased as a percentage of total sales from December (-10 percentage points year over year, +2 month over month)

Net Renewable Generation + Total Electric Sales (New Mexico, Monthly, GWh) Renewable Share of Total Sales (New Mexico, Monthly, Percentage Trend)



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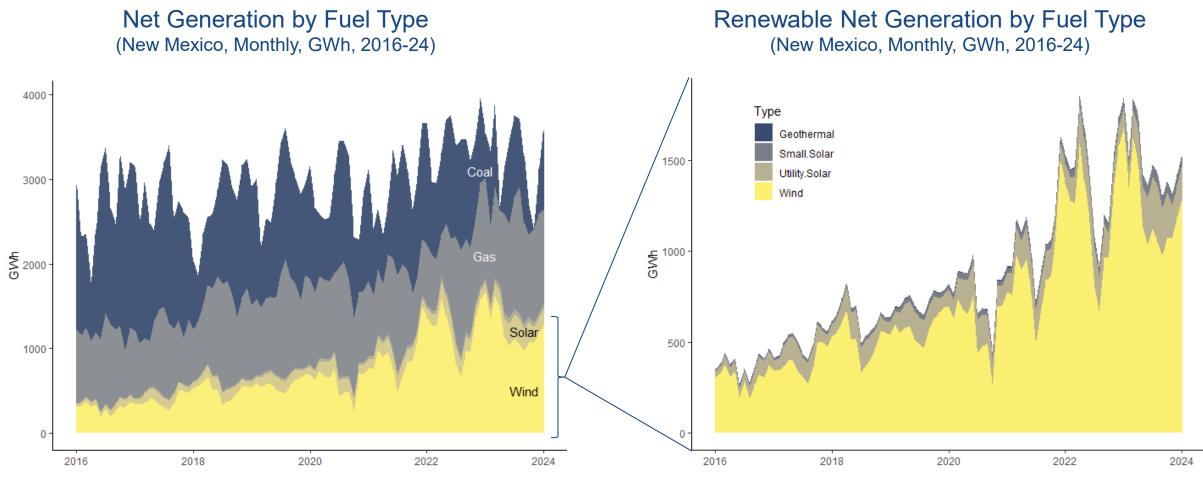
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#### How has New Mexico's electricity generation

#### portfolio changed over time?

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Wind remains the dominant clean energy source in New Mexico's power generation portfolio, though solar drove incremental growth for the sector through 2023



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# Did generation in January 2024 deviate from January 2023 and seasonal expectations?

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Statewide net renewable generation experienced a double-digit drop year over year, dragged by wind; coal filled the gap increasing +76% off an easy JAN-23 comparison

January Conventional Generation by Fuel Type

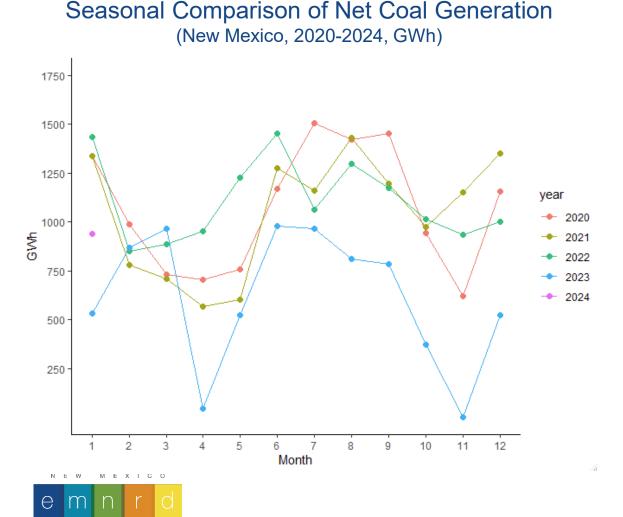


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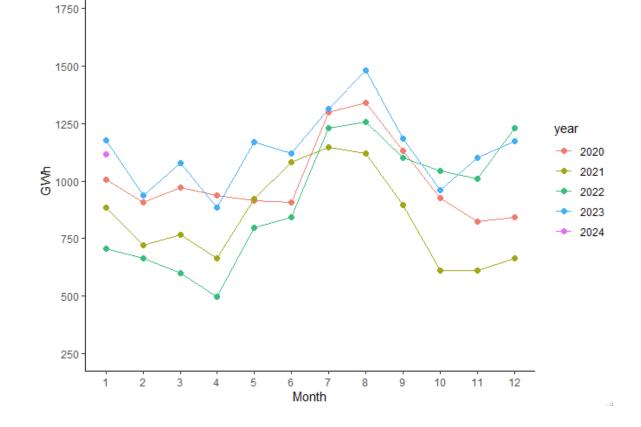
January Renewable Generation by Fuel Type

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## JAN coal generation was well above last year's levels and on par with 2023 summer peak production; gas generation fell -5% from DEC vs. a typical +2% increase

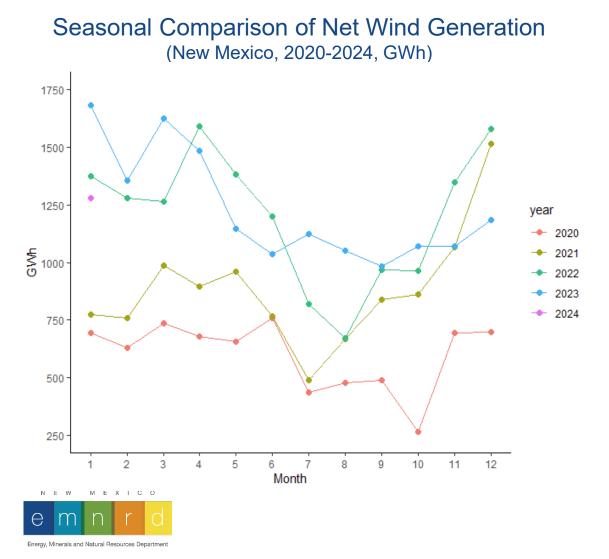


#### Seasonal Comparison of Net Gas Generation (New Mexico, 2020-2024, GWh)

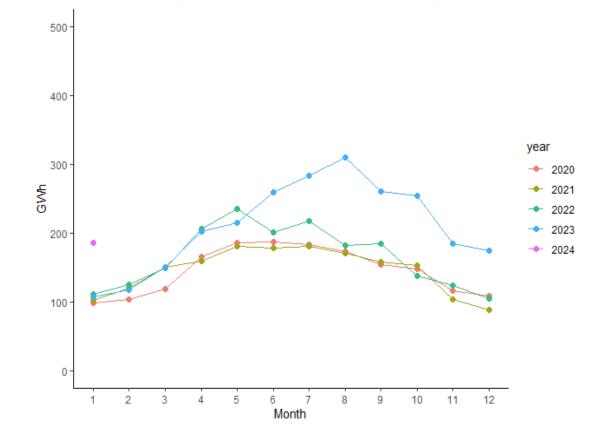




## JAN wind generation increased +7% from December (above the +2% three-year seasonal average but off a muted 2023 base); levels fell below those of JAN-22 and JAN-23



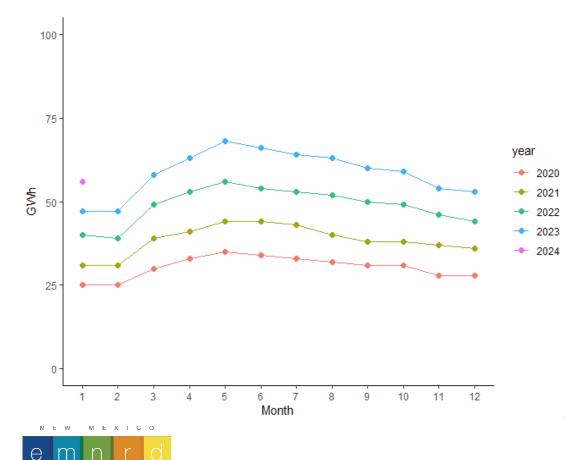
Seasonal Comparison of Net Utility Solar Generation (New Mexico, 2020-2024, GWh)



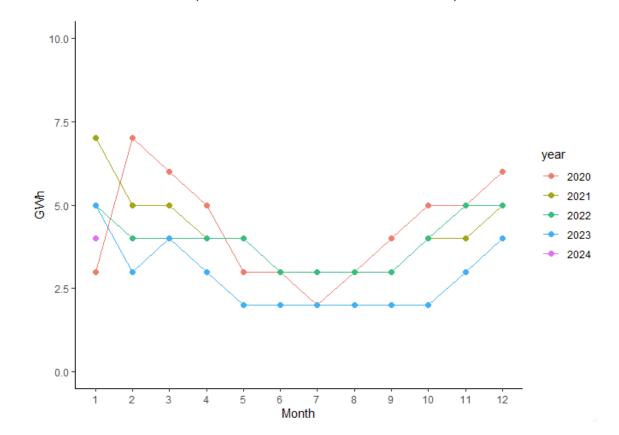
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## The installed base of customer-sited solar continued to grow through 2023, contributing to increased small-scale production in JAN-24

Seasonal Comparison of Net Small Solar Generation (New Mexico, 2020-2024, GWh)



#### Monthly Comparison of Net Geothermal Generation (New Mexico, 2020-2024, GWh)

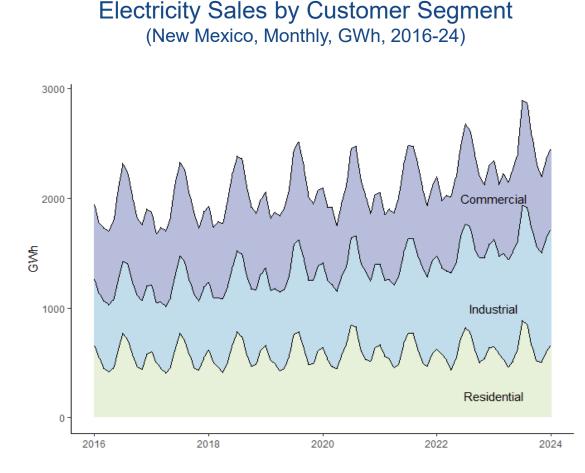


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# Who is buying energy in New Mexico and how has consumption changed over time?

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## Electricity demand growth year over year continued to be driven by the industrial customer segment as oil and gas electrifies in the Permian Basin

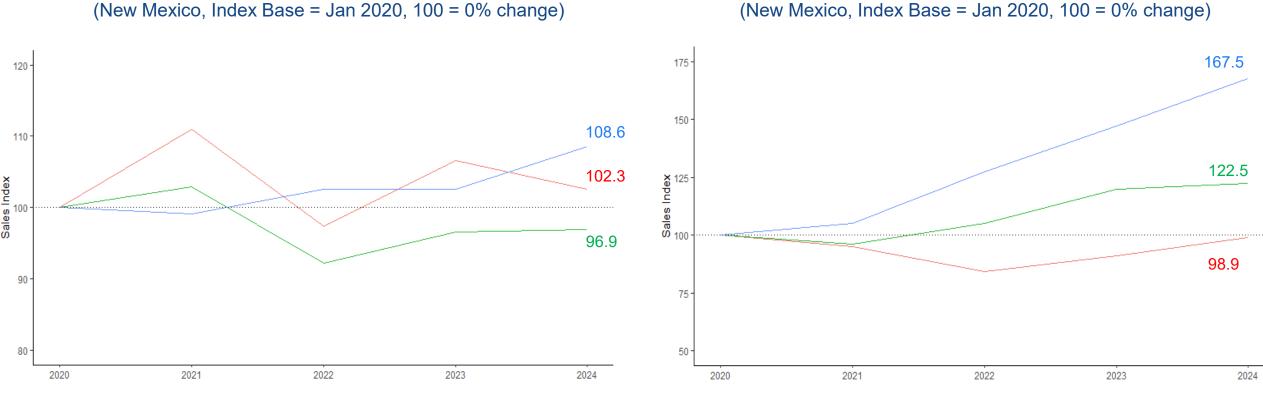


Electricity Sales by Customer Segment Year over Year (New Mexico, January, GWh, 2023-24)





### With residential sales growth of +9% and industrial sales growth of +67% in January, electricity demand in New Mexico is being driven by SPS customers



Southwestern Public Service Co

January Residential Electricity Sales Indexed by Utility (New Mexico, Index Base = Jan 2020, 100 = 0% change)

Public Service Co of NM

Utility.Name — El Paso Electric Co — Public Service Co of NM — Southwestern Public Service Co

January Industrial Electricity Sales by Utility



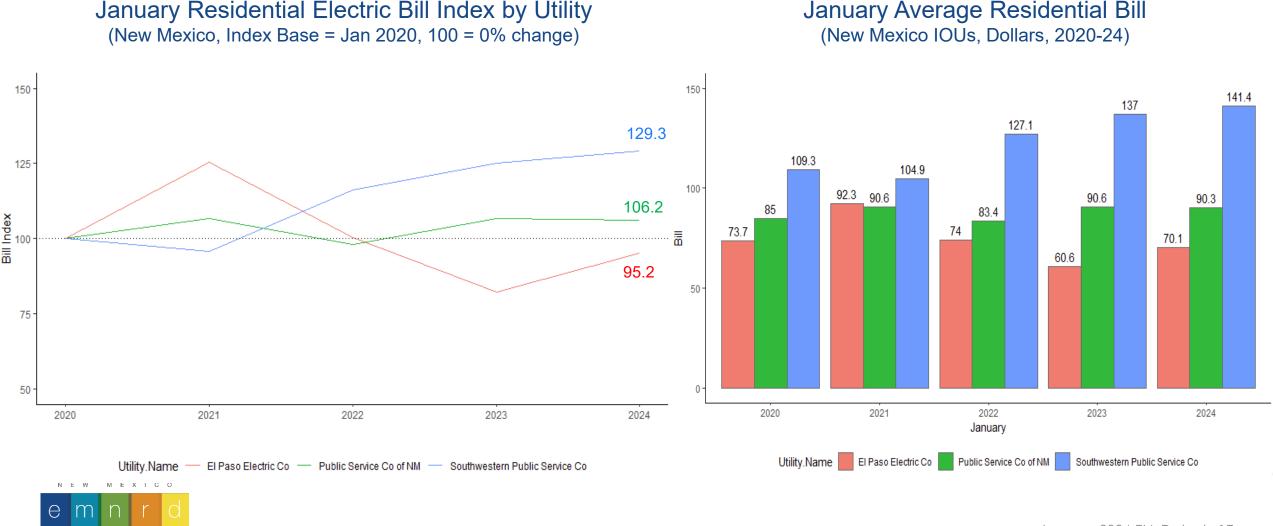
Utility Name

El Paso Electric Co

# What is the financial impact on New Mexicans as demand grows and price levels rise?

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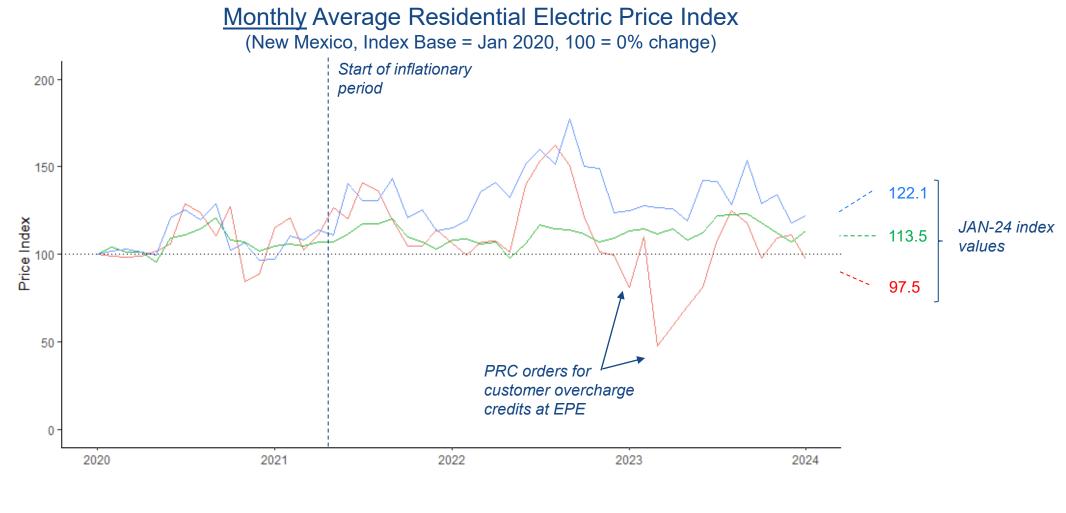
## Bills have remained elevated at SPS and PNM since 2020 while customer charges at EPE have normalized



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## Residential prices at El Paso Electric have returned to pre-COVID levels, following a period of increases in the back half of 2023



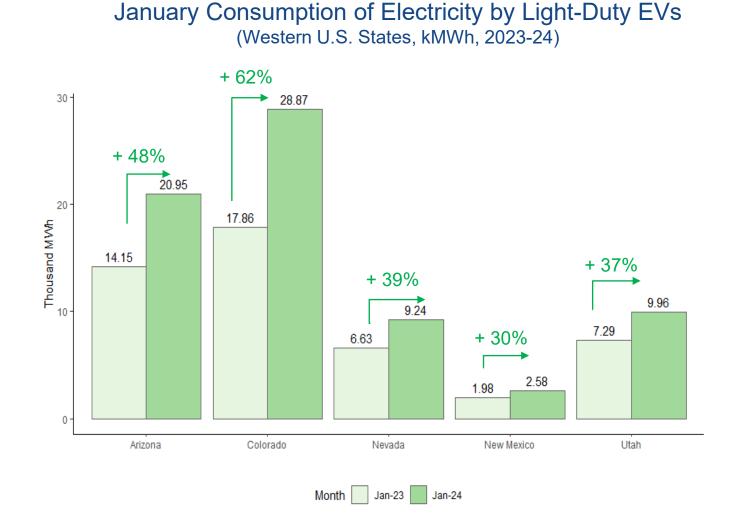
Utility.Name — El Paso Electric Co — Public Service Co of NM — Southwestern Public Service Co



# How is transportation electrification influencing electricity demand relative to similar states?

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## EV electricity consumption grew +30% year over year in January; momentum lagged that of other western states with higher adoption rates



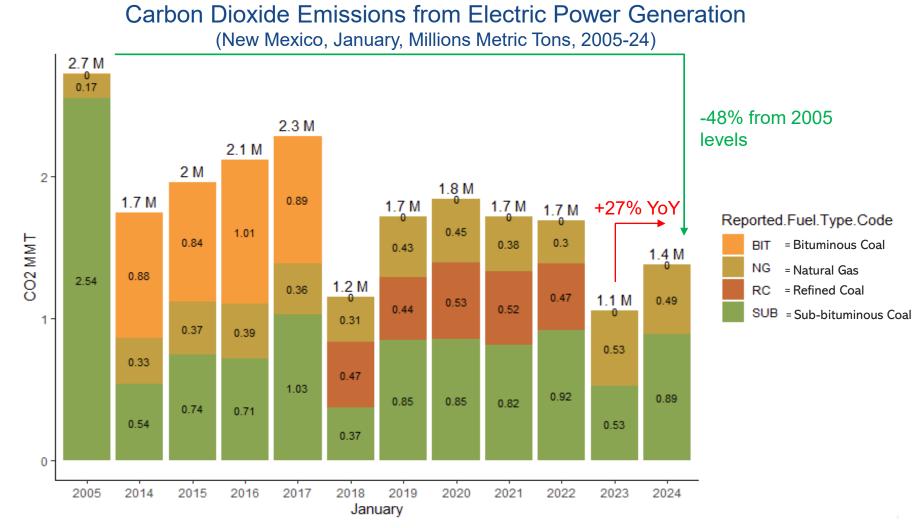


## How much progress has New Mexico made towards

#### reducing emissions in the electricity sector?

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## Increased coal generation elevated power-related CO2 emissions in January by +27% from 2023 levels; January CO2 emissions were -48% lower than 2005 levels





#### Contact

#### Evan Rogers

Economist, Energy Planning Bureau

Evan.Rogers@emnrd.nm.gov

