

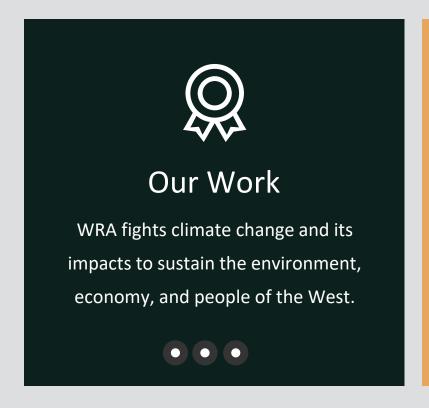
Presentation to the Senate Joint Committee on Rising Utility Rates

March 20, 2023 | Meera Fickling

About Western Resource Advocates

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We're tackling the largest sources of carbon pollution, improving air quality for nature and people, protecting and restoring our rivers and water supply, and connecting the West's unparalleled landscapes.





Our Approach

Working where decisions are made, sweating the details, and creating evidence-based solutions.





Our Team

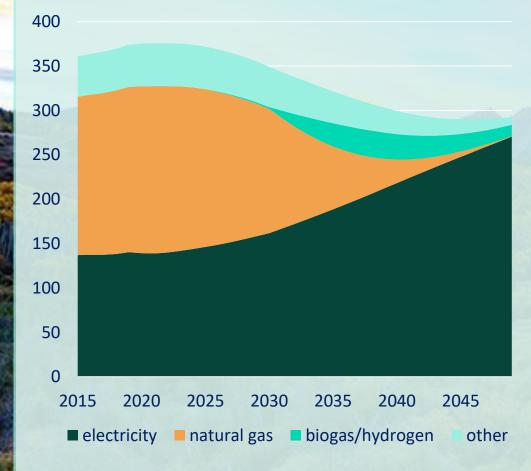
Policy experts, scientists, economists, engineers, attorneys, fundraisers, and communications professionals leverage our unique strengths.





Decarbonizing buildings requires reducing gas use.

Energy consumption in buildings, TBtu



Source: Colorado Greenhouse Gas Roadmap





Figure 34. Combined RNG Supply-Cost Curve, less than \$20/MMBtu in 2040

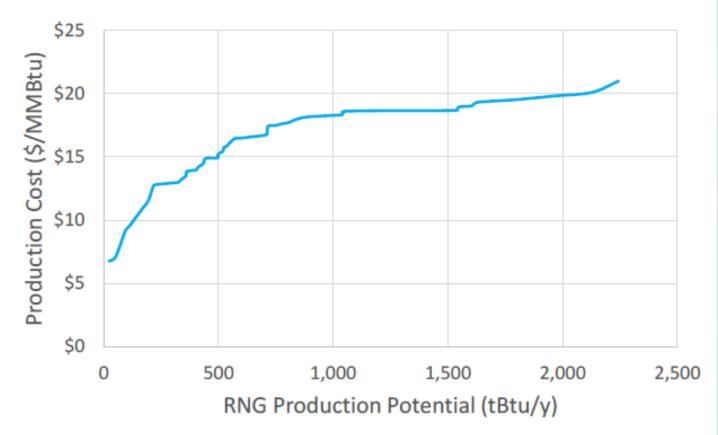
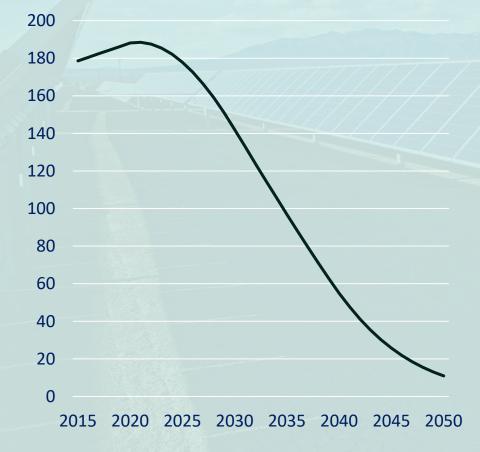


Image credit: ICF International/American Gas Foundation

RNG and hydrogen are both anticipated to cost several times today's wholesale price of natural gas —now and in the future.

Annual consumption of all pipeline gas (including natural gas, biogas, and hydrogen) in buildings (TBtu)



Source: Colorado Greenhouse Gas Roadmap





46,488 new customers added from 2019-2022 provide only **\$25 million** annual revenue – a shortfall of **nearly 50%.**

To pay off the 2019-2022 investments, Xcel requires **64,613 more customers** to join the system in the future.

What if the number of customers doesn't grow, but rather stagnates or declines?

The gas utilities' investment model relies on continued growth.

"If [customers] put in a ground source heat pump like in year five, we could be in big trouble."

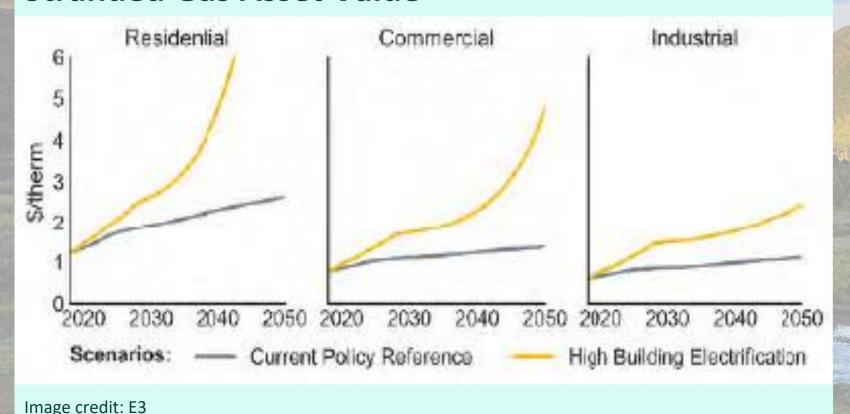
-Xcel Energy hearing testimony before the Public Utilities Commission, August 26, 2022.

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Source: Xcel 2022 Gas Rate Case

What happens if we continue building gas lines at the same pace?

E3 Projected Rate Impacts in California from Stranded Gas Asset Value



"Absent policy intervention, the rate increases...are unlikely to be consistent with financially stable gas utilities."

- California Energy Comm'n, Energy Research & Development Division, "The Challenge of Retail Gas in California's Low-Carbon Future" at 66.

It is possible to decarbonize the gas system and keep energy affordable—but we must start today.

- 1. Stop incentivizing new gas system expansion or sales growth.
- 2. Start exploring where alternatives can provide affordable, low-carbon heating for Coloradans, in place of gas system expansions or replacements.

With a managed transition—including avoided gas system expansion, geotargeting of non-pipe alternatives, strategic retirements of pipelines for safety and reliability, and accelerated depreciation to pay off existing assets more quickly—the same E3 modeling study shown above in the previous slide found that residential gas bills could remain relatively flat through 2050.

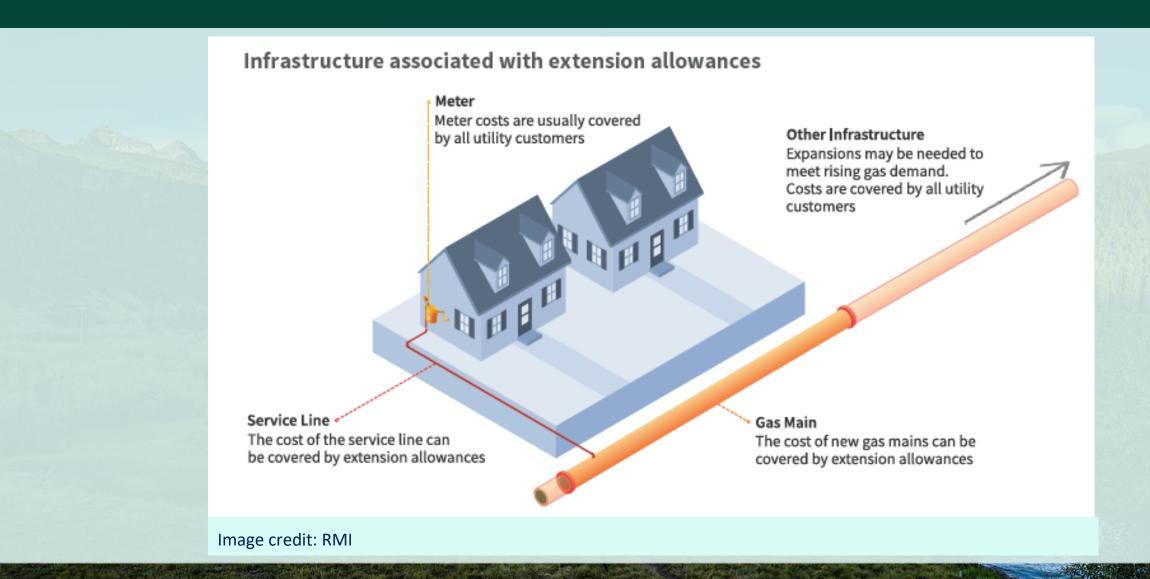
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What is a line extension allowance (LEA)?

- A line extension allowance is a payment to a new building developer that subsidizes part of the cost of connecting to the gas (or electric) system. It pays for:
 - The on-site distribution pipeline extension within the subdivision
 - The service lateral to the building
 - The gas meter
 - The gas pressure regulator
- Existing buildings don't need LEAs because they already have this infrastructure. LEAs apply to new developments.



What infrastructure does an LEA subsidize?



Who pays for this infrastructure? Who benefits?

Xcel Energy

Colorado Ratepayers:

Meter and regulator: \$256*

Service lateral: \$383

Distribution main: \$331

Total: \$970 (31%)

Building Developers:

Meter and regulator: \$0*

Service lateral: \$847

Distribution main: \$1,337

Total: \$2,184 (69%)

^{*}until November 1, 2023

How does the Colorado Public Utilities Commission treat gas LEAs?

- The Colorado PUC has shown interest in reducing gas LEAs, citing the large capital costs inherent to adding new customers and LEAs' unfairness to lower income customers.
- A recent "Clean Heat Rulemaking" decision requires new applicants (developers) to bear the "full incremental cost" of their gas connection, including evaluating environmental costs.
- However, the PUC has not eliminated gas LEAs.

D. Findings and Conclusions

We are unpersuaded by Public Service's argument that new customers subsidize 298 existing customers and find that the issue is more complex than is demonstrated by the Company's analysis. For instance, we question the assumption that all new customers are permanent. The assumptions made in the record in this Proceeding only hold if customers do not electrify, either in part or in whole. The Company also failed to properly account for the large capital costs associated with meeting new customer growth in terms of increases in broader system-wide and sub-regional peak design day demands. Finally, some portion of the investments in system and shared corporate services appear to result directly from new customer growth. 143 We thus question the presumption that it is correct to continue with system investment driven by customer additions simply on the basis of what has historically been done to provide service to new and existing customers. We further note that income-qualified customers are less likely to benefit from line extensions, creating an equity problem. Public Service and the intervening parties must consider what is reasonable given the shifts in the natural gas environment in the coming years.

Image Credit: Colorado Public Utilities Commission Decision C22-0642-22AL-0046G

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The Colorado General Assembly should take the next step and eliminate gas LEAs

- LEAs are regressive. Funds flow from Colorado ratepayers (including renters and low-income Coloradans) toward building developers.
- LEAs are not a substitute for affordable housing policy. The amount of a residential LEA (\$970) represents a fraction of a percent of the cost of a new construction single family home in Colorado.
- Efficient, cost-effective electric heating options are available in Colorado today. All-electric new construction saves an average of \$2,100 upfront and, given today's natural gas prices, also saves money on fuel.
- To meet our climate goals, we need to stop subsidizing fossil fuel connections.

What else can the Colorado General Assembly require utilities to do to minimize stranded asset risk?

- In addition to eliminating gas subsidies, we need to explore where
 utilities can make geographically targeted investments in energy
 efficiency, electrification, and demand response instead of in gas
 pipeline infrastructure.
- The Colorado PUC recently adopted rules requiring utilities to submit biennial gas infrastructure plans (GIPs) that will analyze non-pipeline alternatives to some planned pipeline projects. However, utilities will analyze only a limited number of projects, and they will select the projects to analyze.
- The legislature could require utilities to analyze all planned projects over \$2 million for non-pipeline alternatives in GIPs.