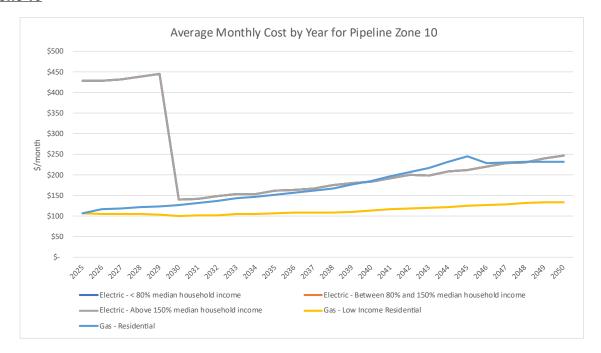
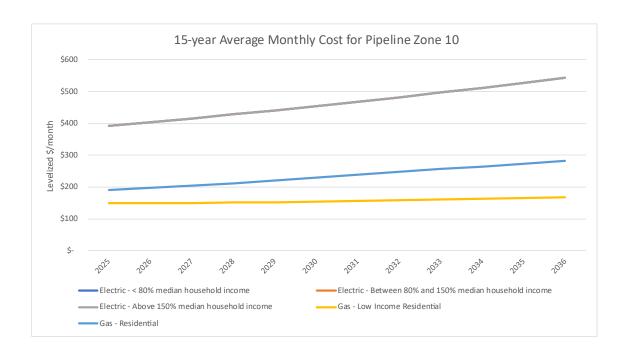
Appendix K Electrification Analysis 2025 WA IRP

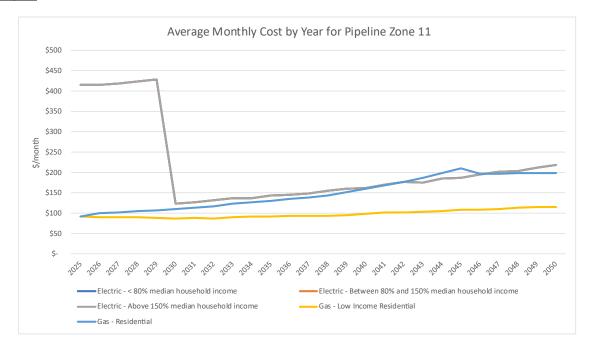
Appendix K – Introduction

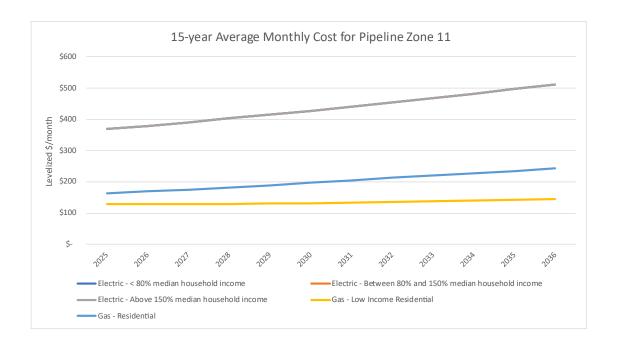
The purpose of this appendix is to provide electrification results by a combination of each pipeline zone and reference case, low growth, and high growth. Cascade has also provided the results from a Company perspective, or a utility cost test perspective, and a customer perspective. Under the customer perspective, Cascade included the marginal cost of a furnace, or in other terms, the cost difference between and heat pump and furnace as the install cost.

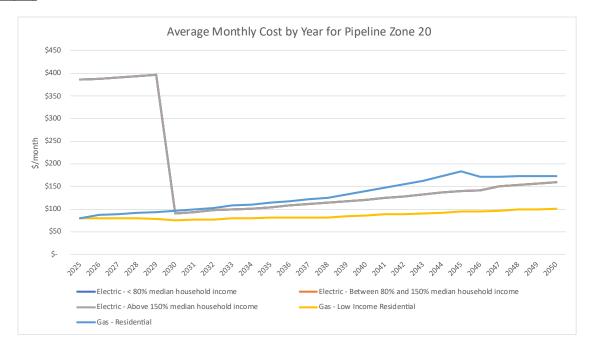
Reference Case – Company Perspective (Furnace Cost Reduction Not Included)

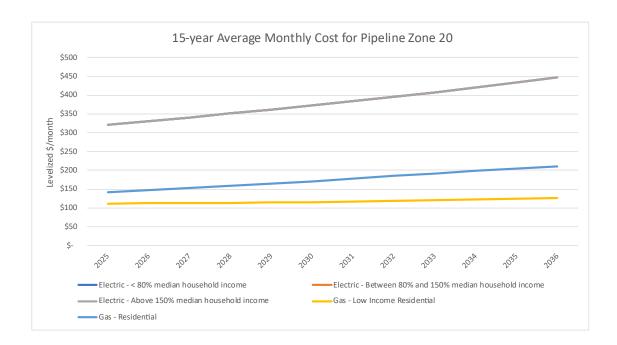


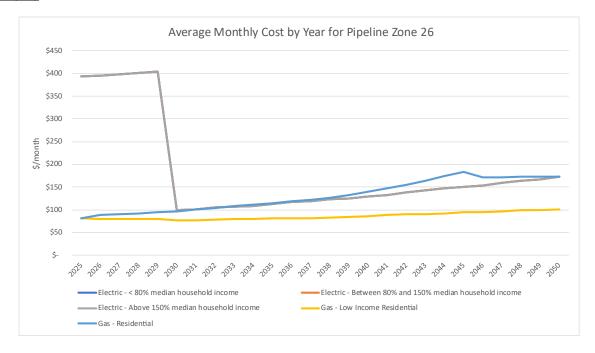


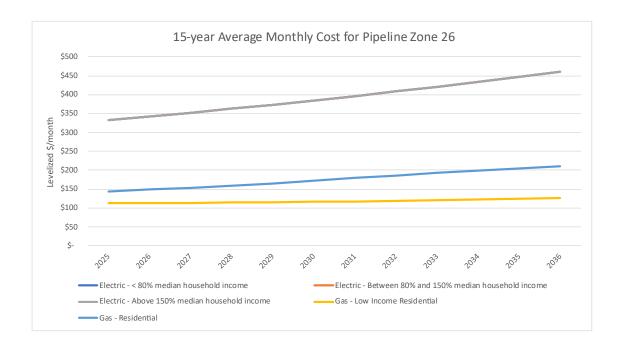




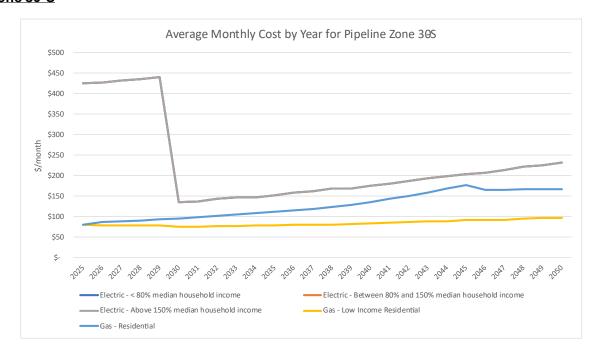


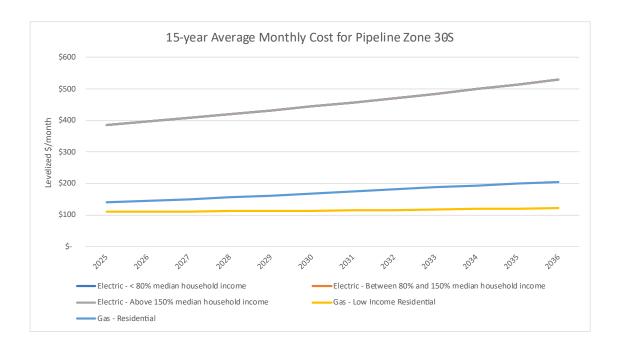




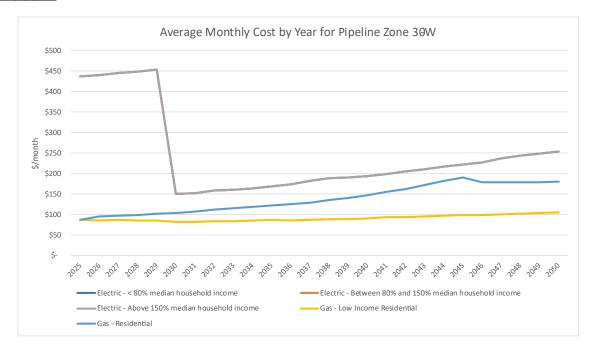


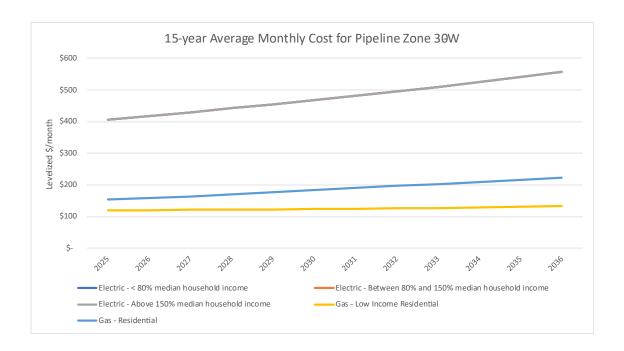
Zone 30-S



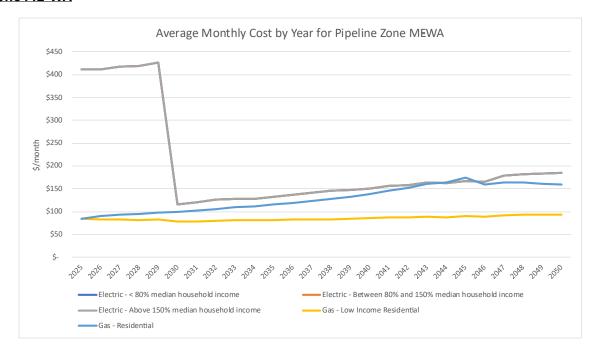


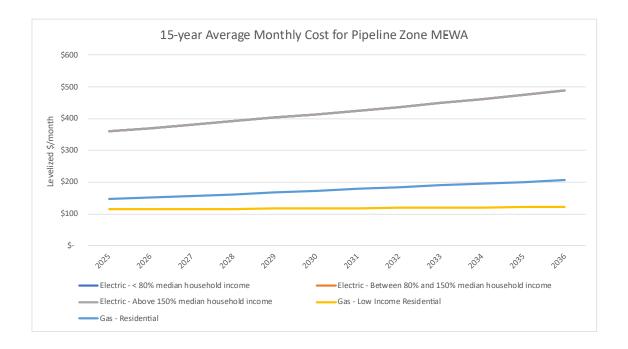
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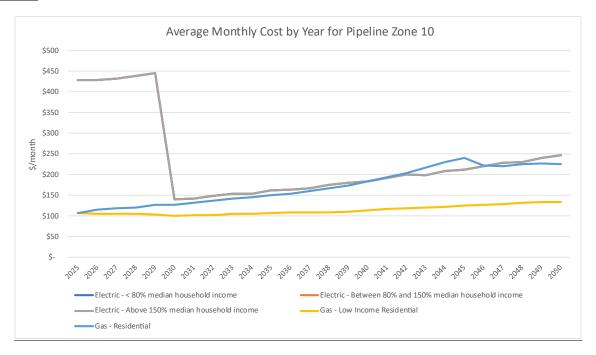


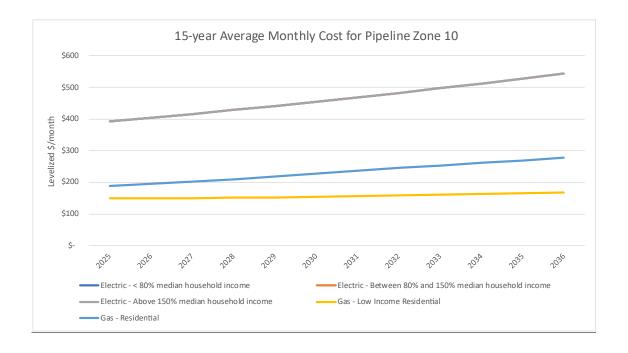
Zone ME-WA

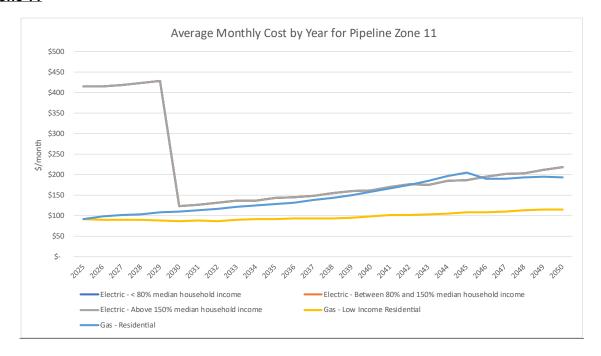


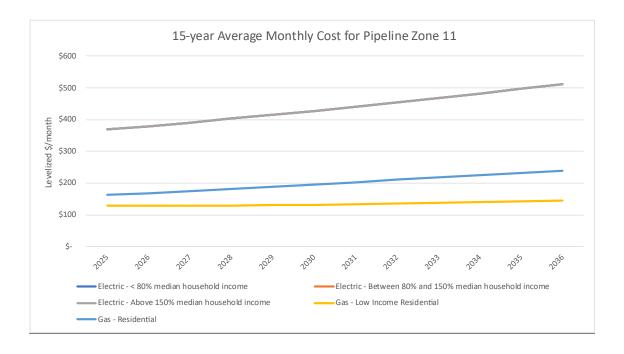


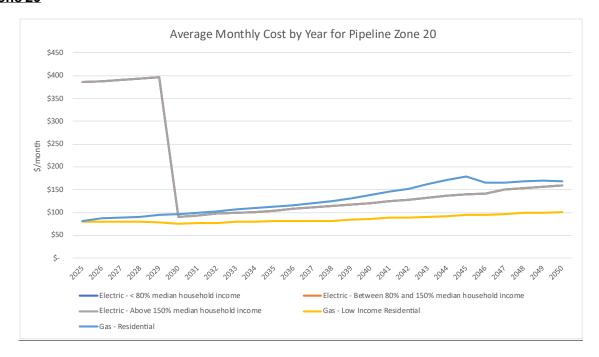
Low Growth Case - Company Perspective (Furnace Cost Reduction Not Included)

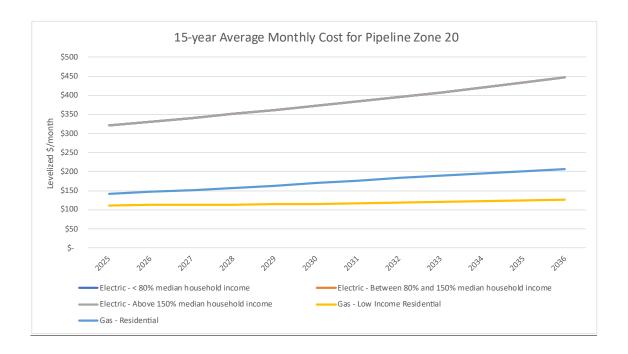


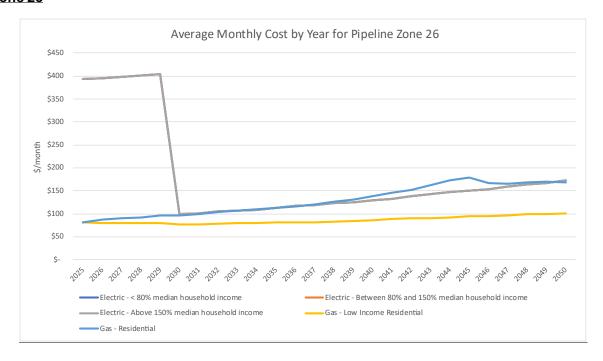


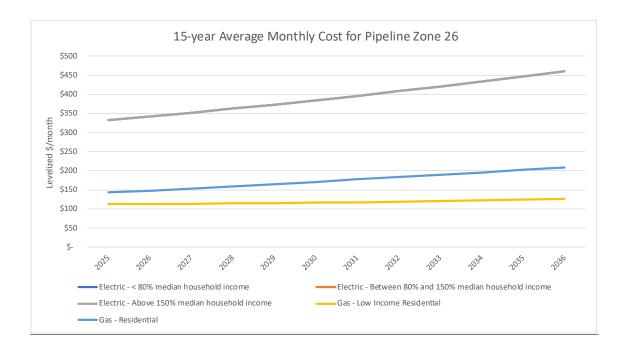




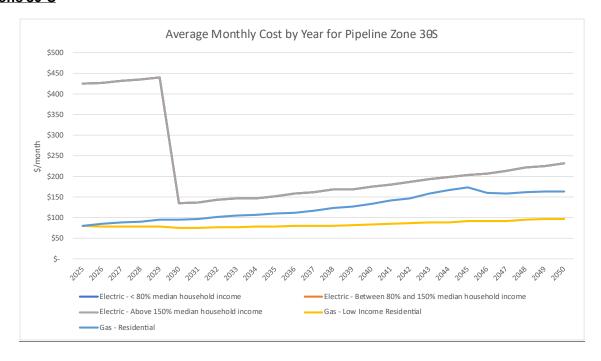


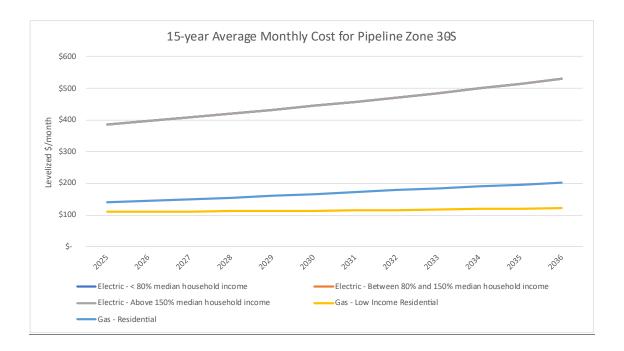




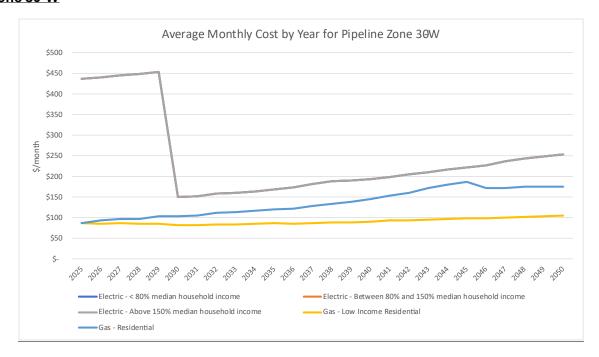


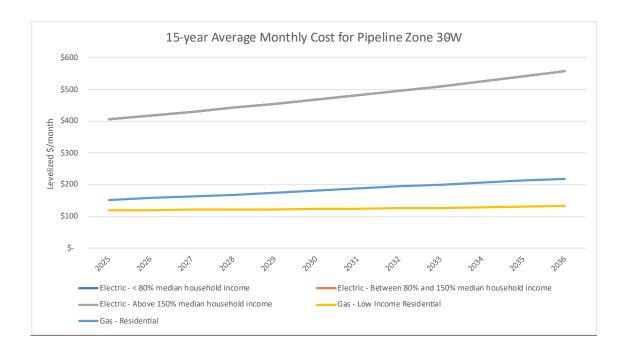
Zone 30-S



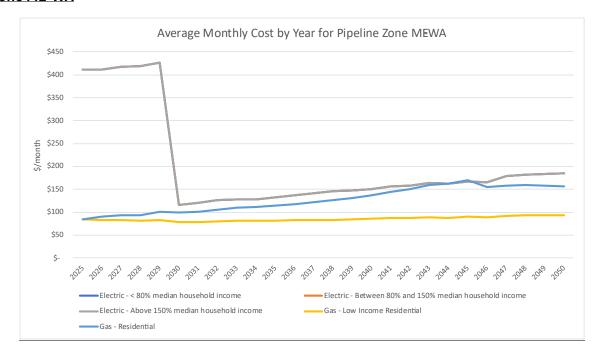


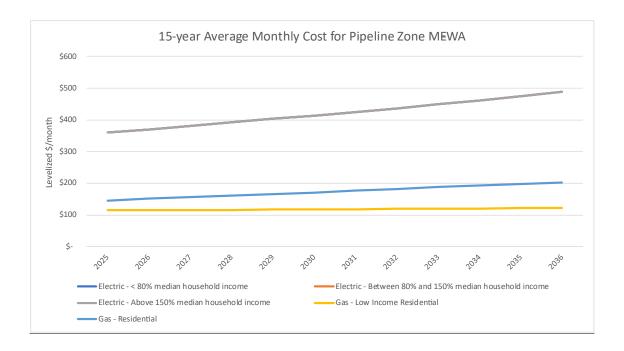
Zone 30-W



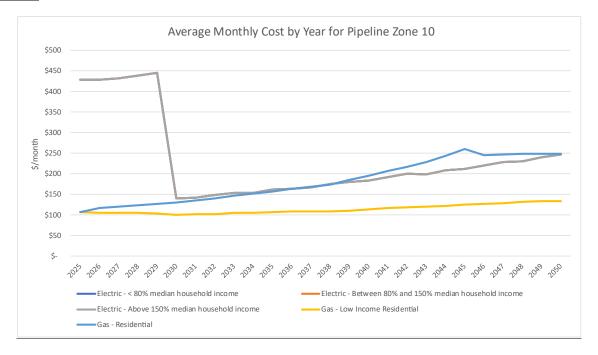


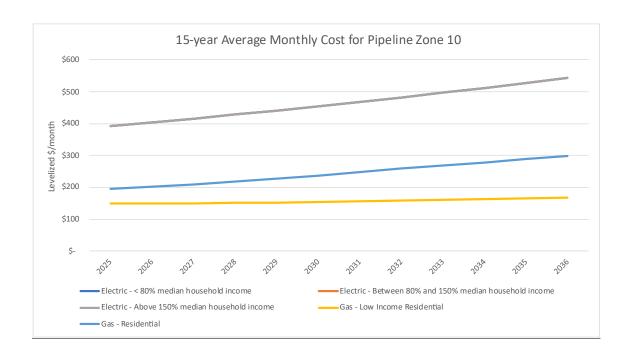
Zone ME-WA

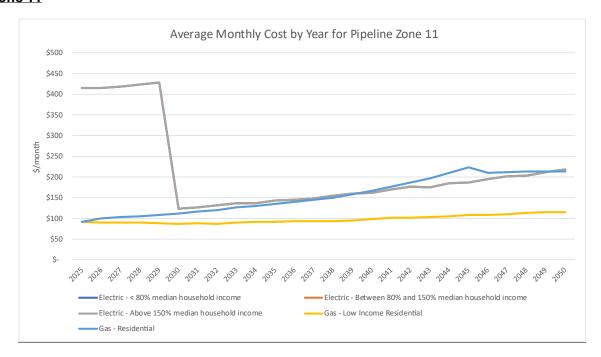


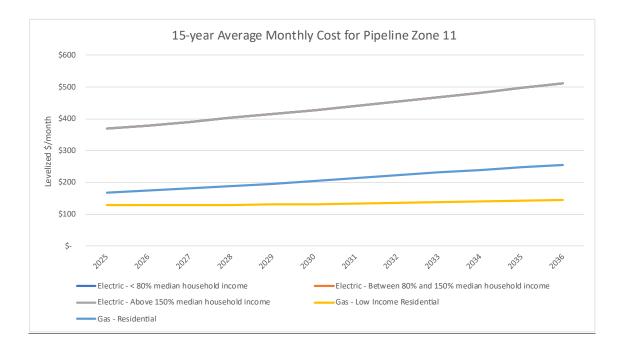


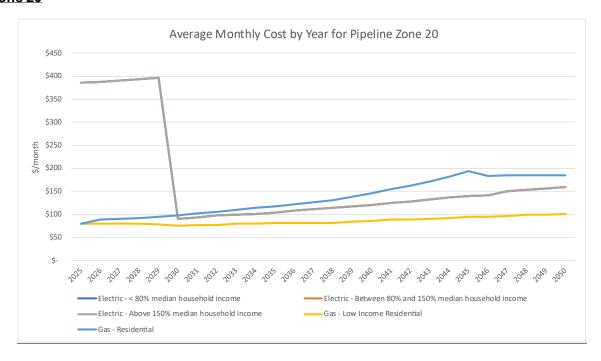
High Growth Case - Company Perspective (Furnace Cost Reduction Not Included)

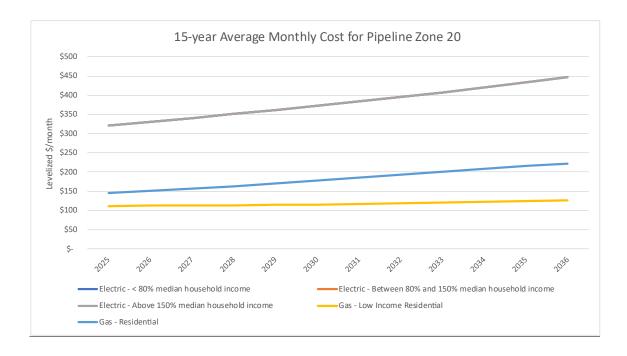


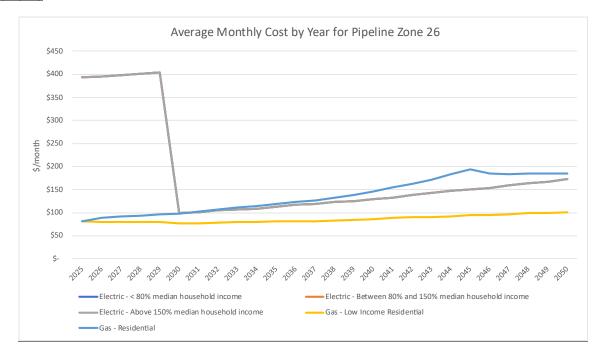


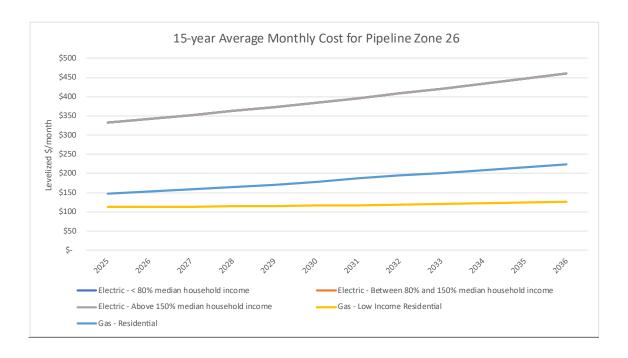




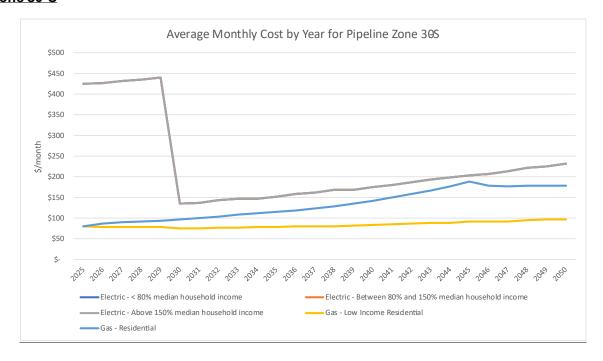


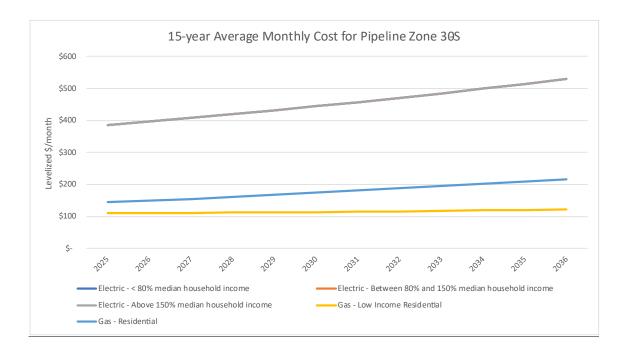




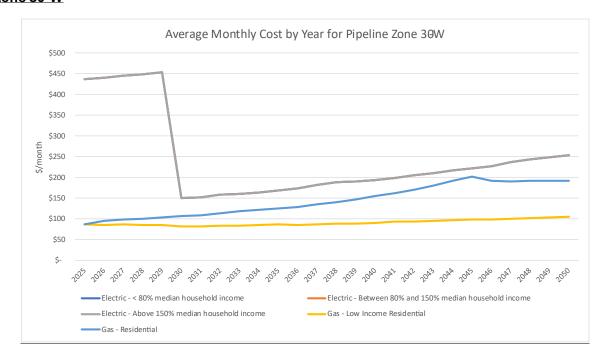


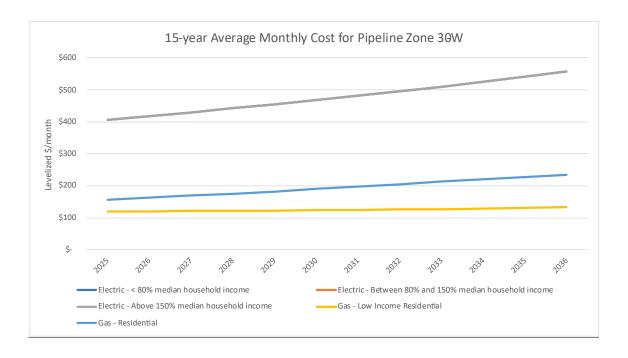
Zone 30-S



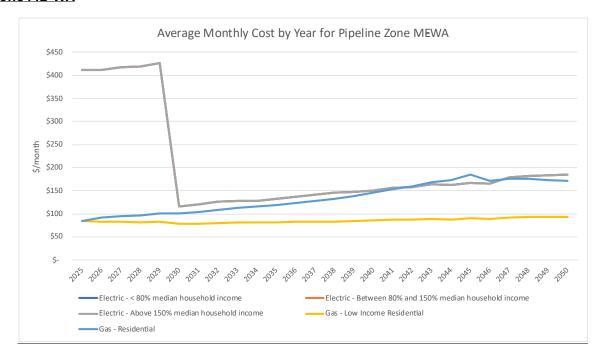


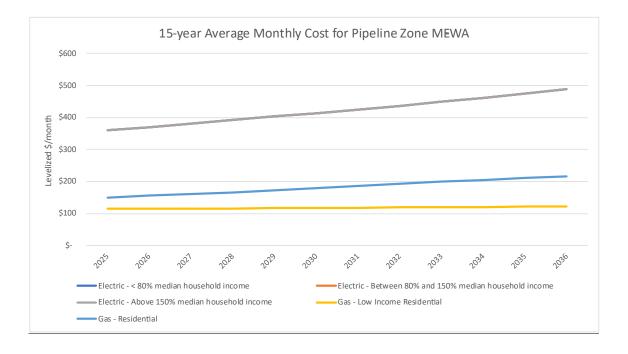
Zone 30-W



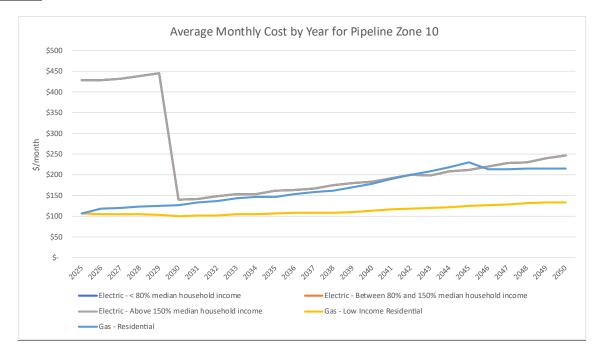


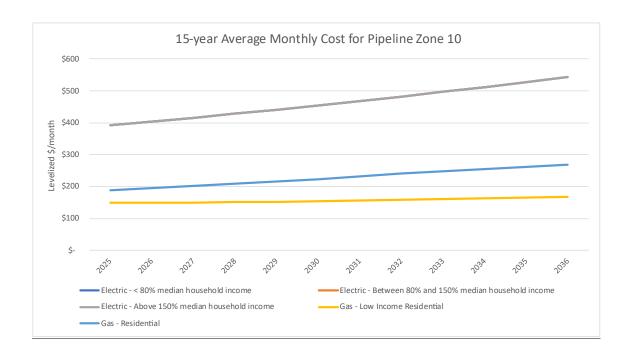
Zone ME-WA

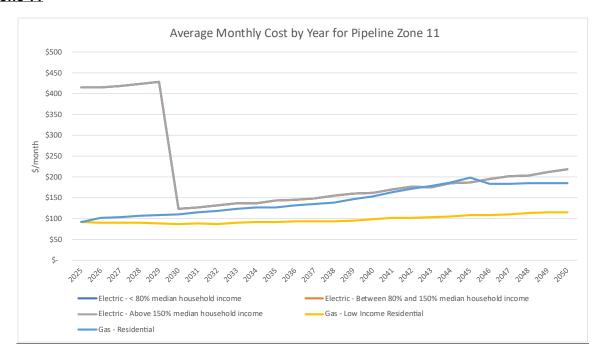


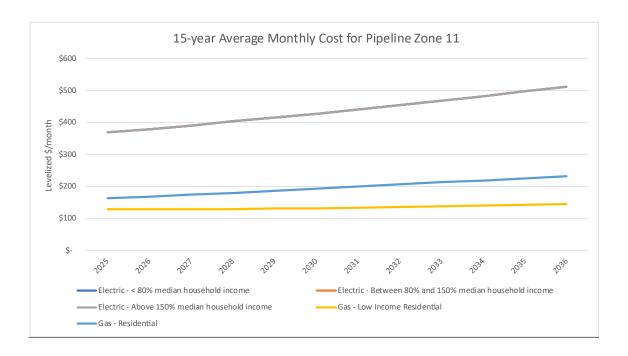


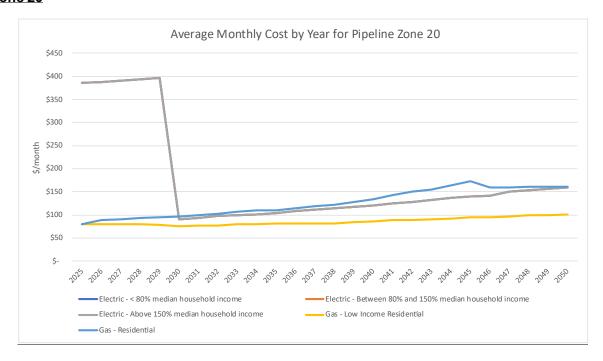
Monte Carlo Simulations - Company Perspective (Furnace Cost Reduction Not Included)

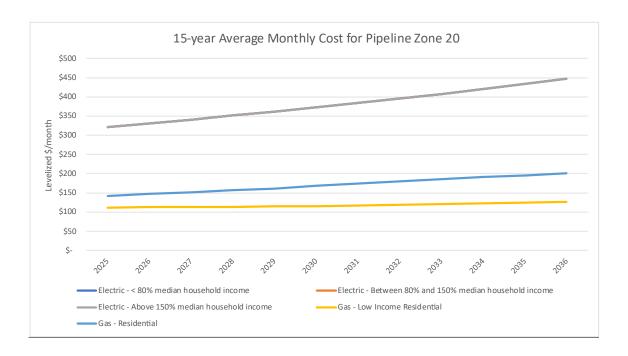


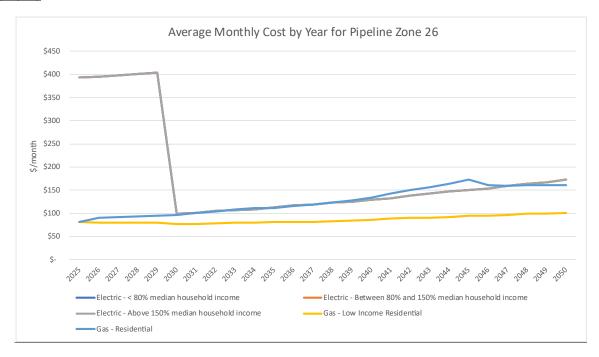


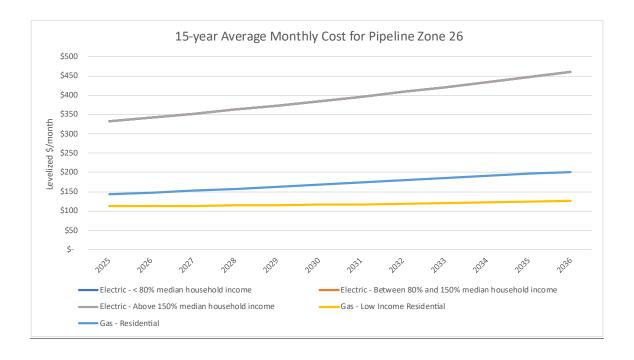




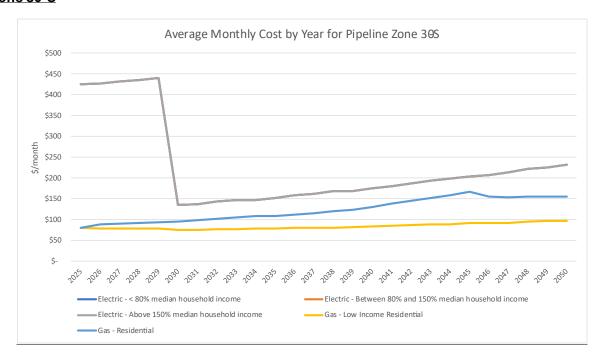


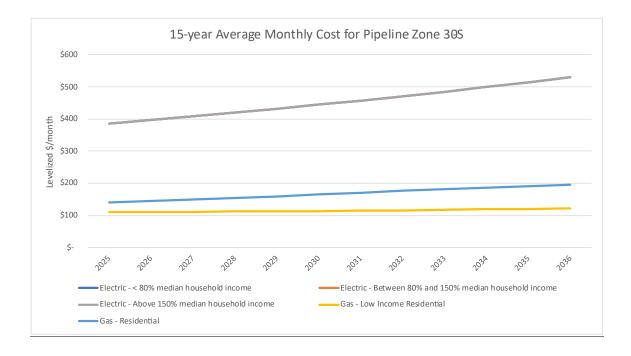




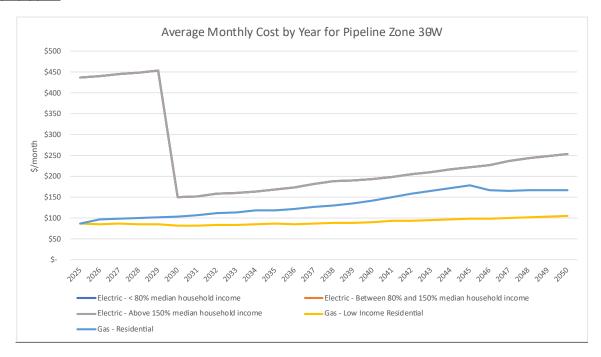


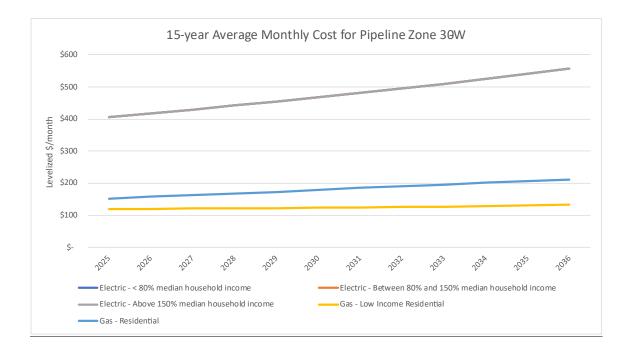
Zone 30-S



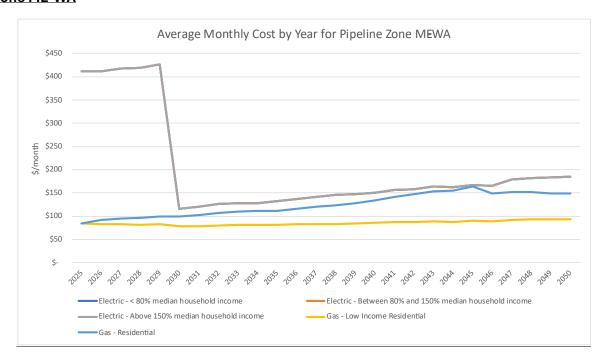


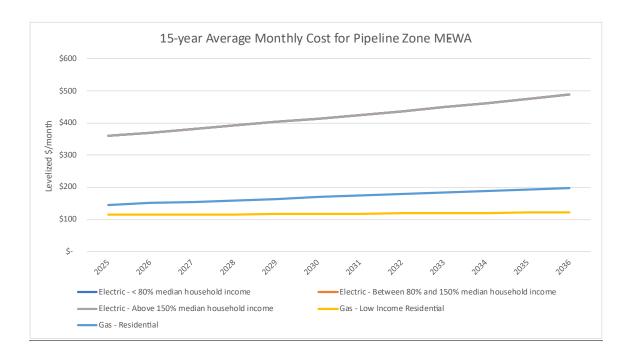
Zone 30-W





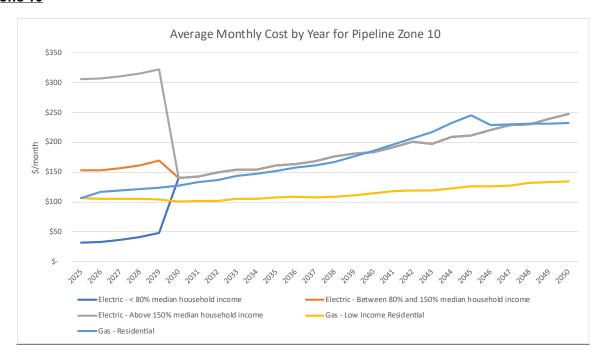
Zone ME-WA

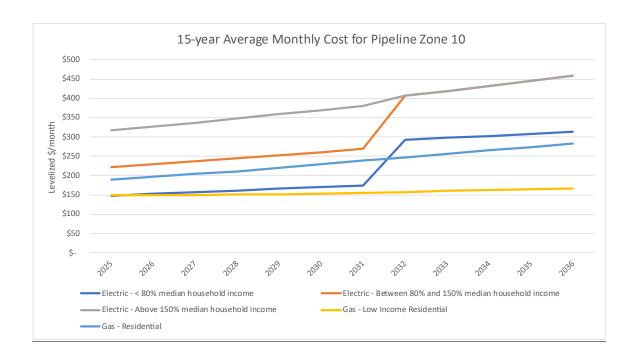


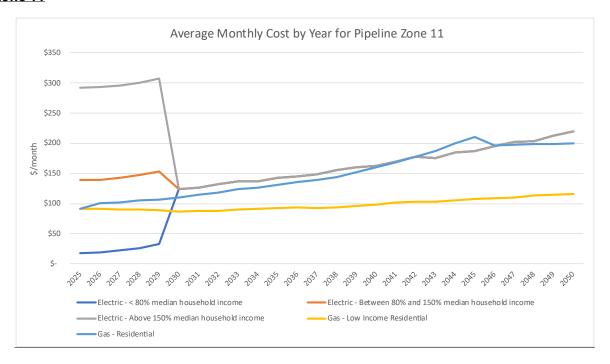


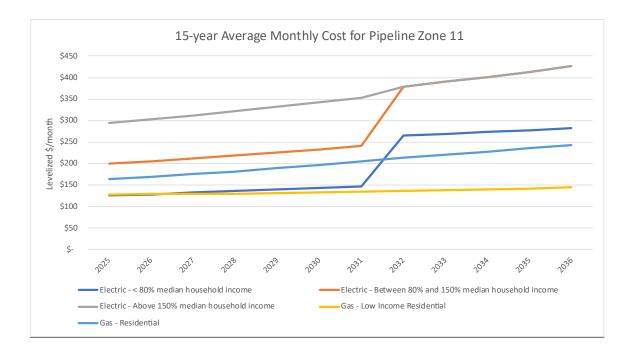
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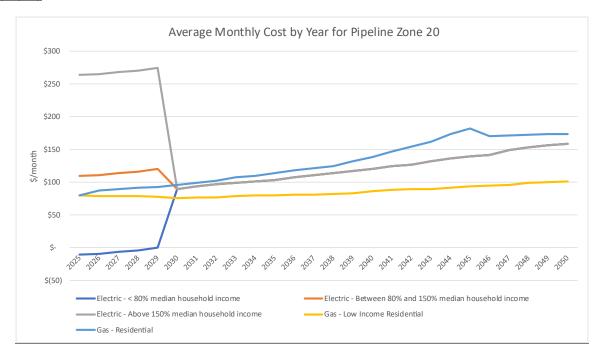
Reference Case – Customer Perspective (Rebates, Incentives, and Furnace Cost Reduction Included)

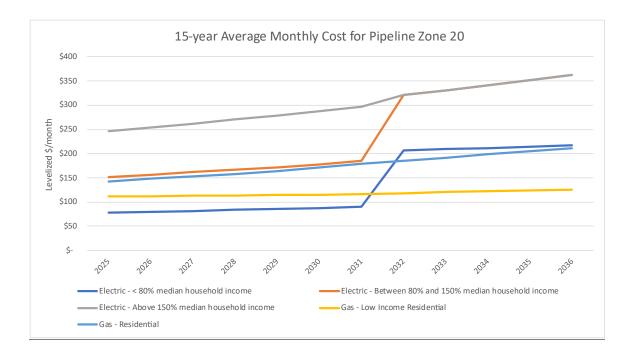


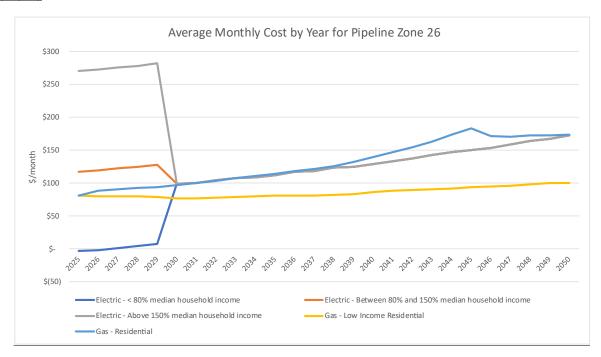


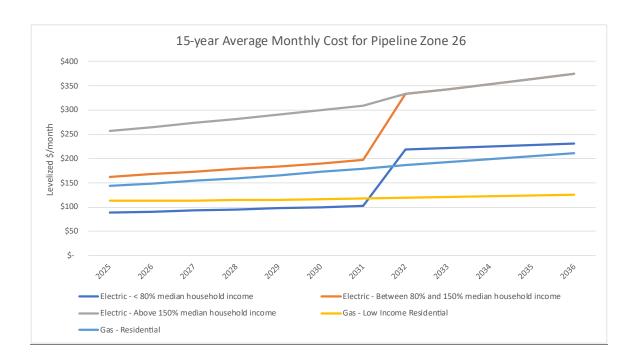




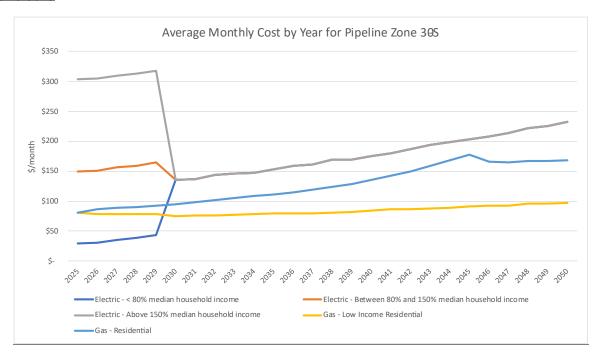


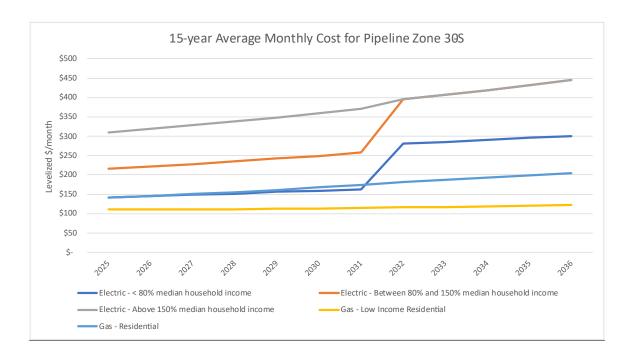




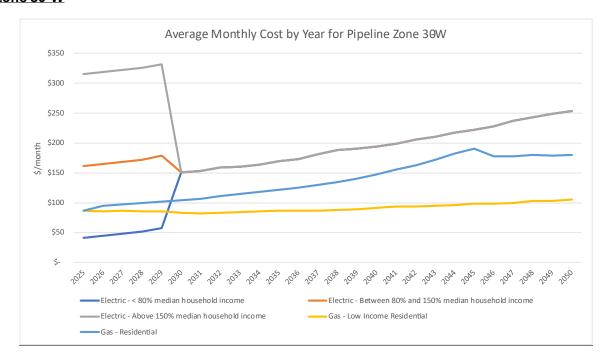


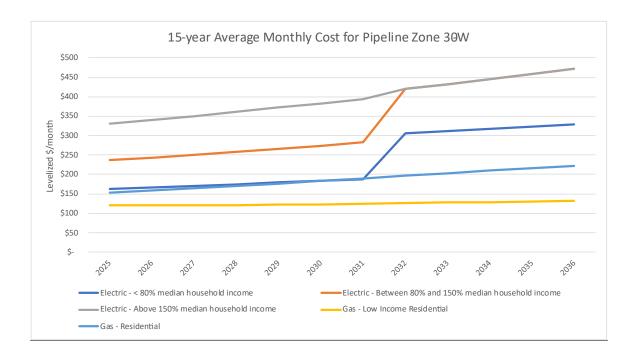
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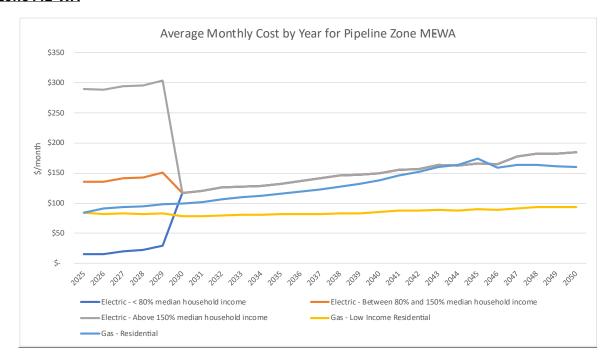


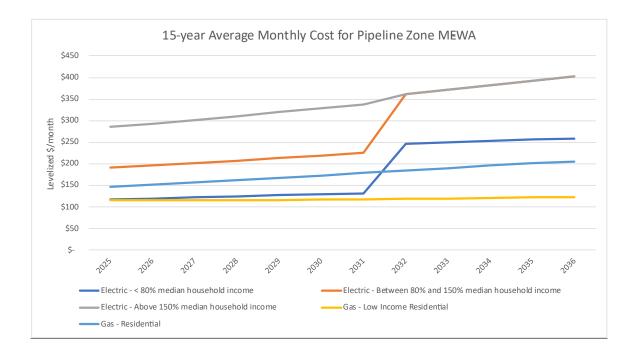
Zone 30-W



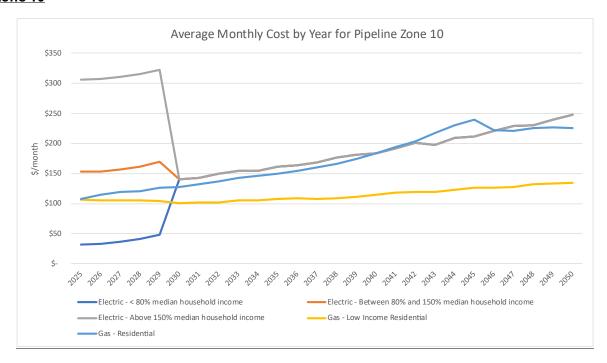


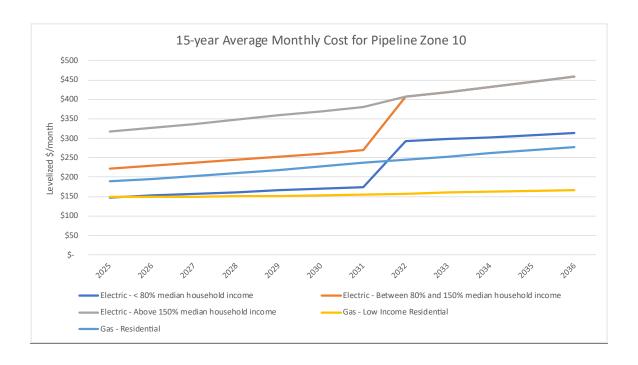
Zone ME-WA

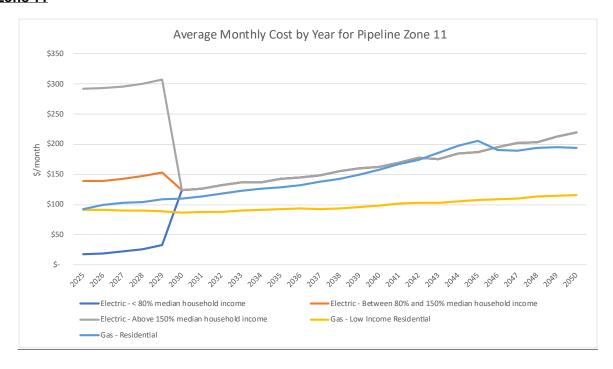


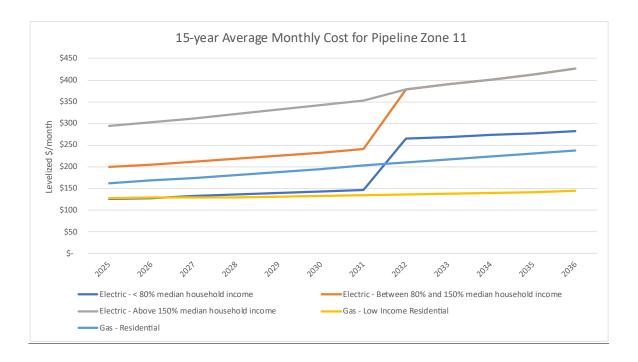


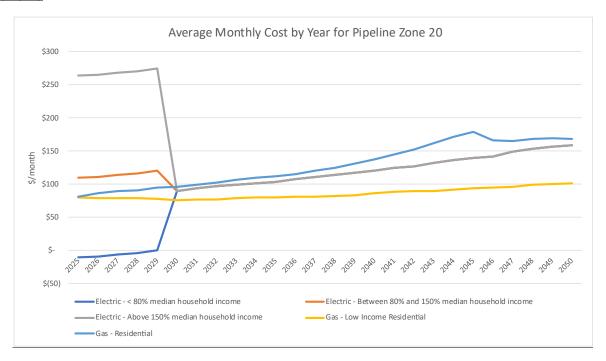
Low Growth Case - Customer Perspective (Furnace Cost Reduction Included)

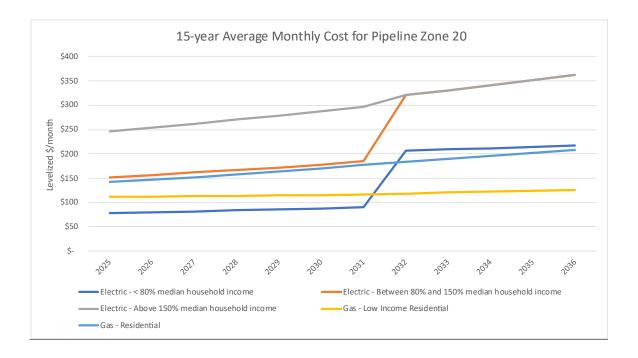


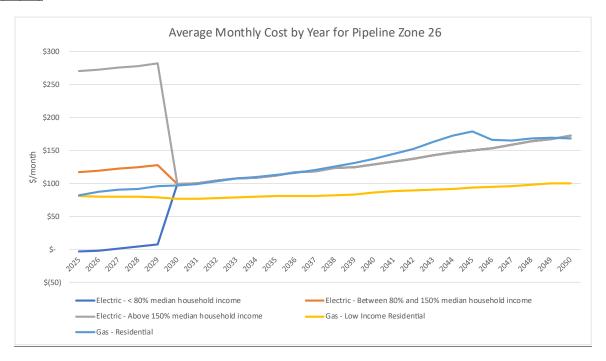


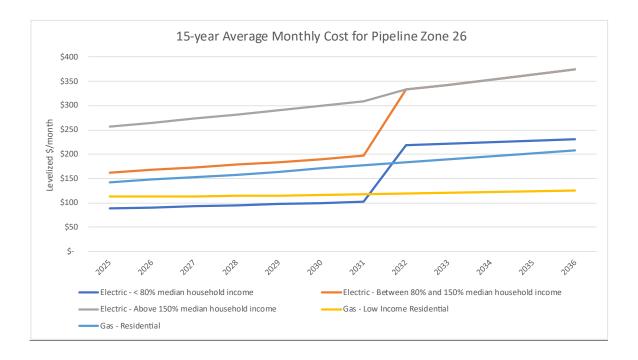




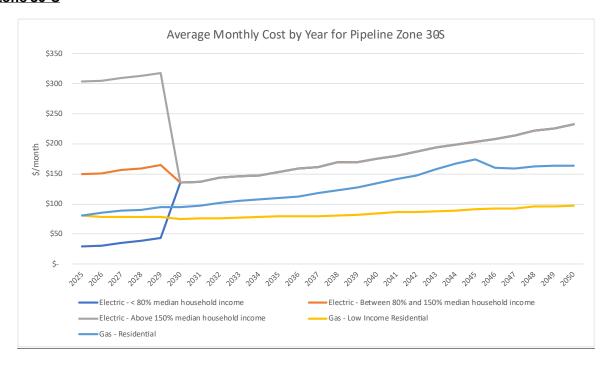


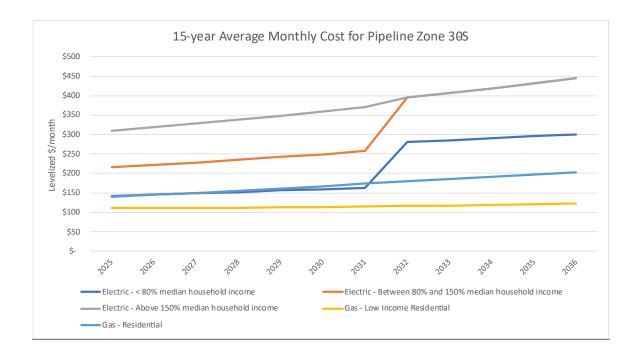




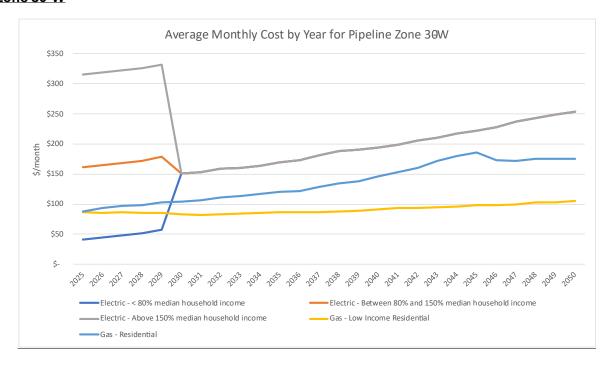


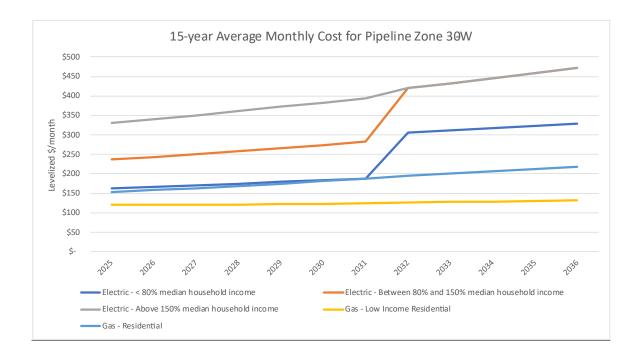
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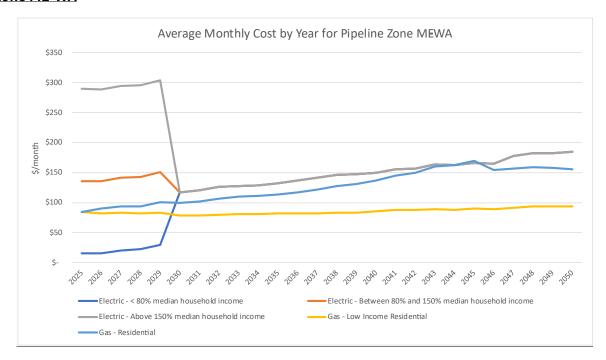


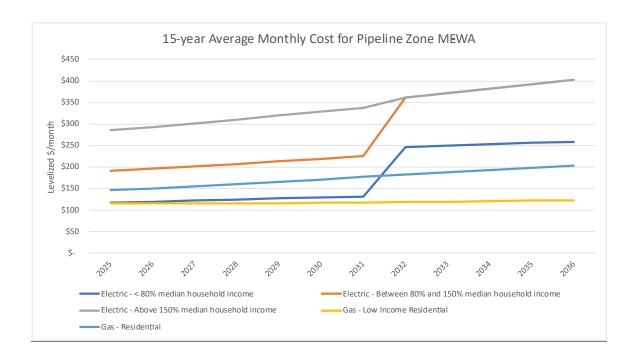
Zone 30-W



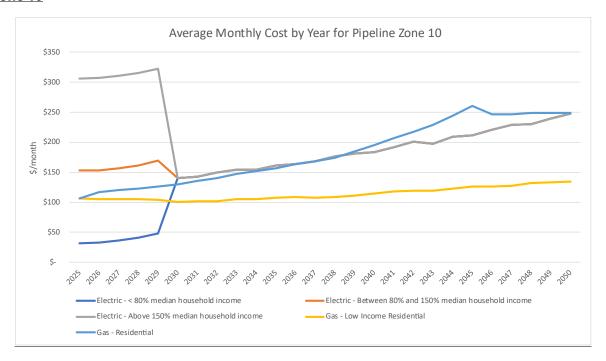


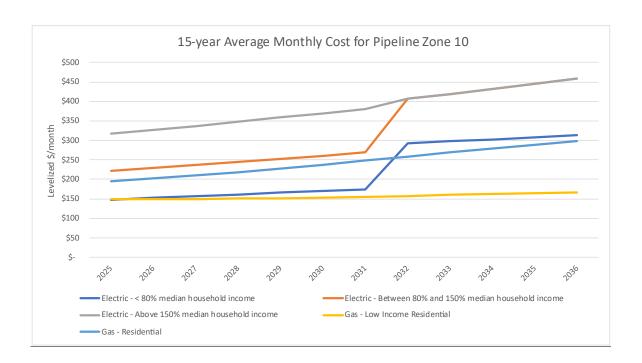
Zone ME-WA

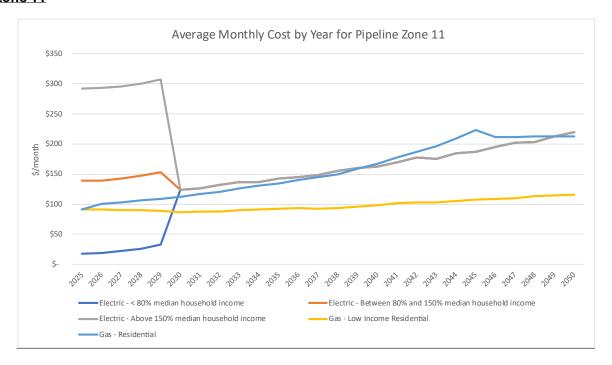


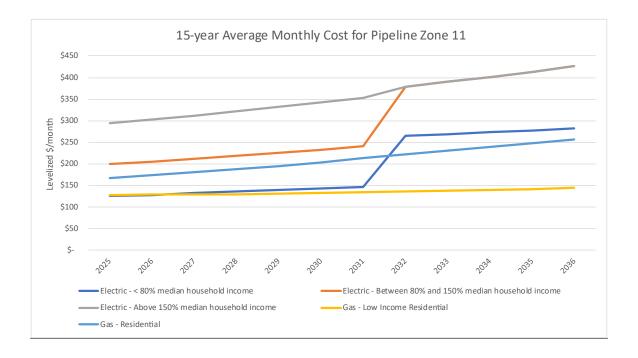


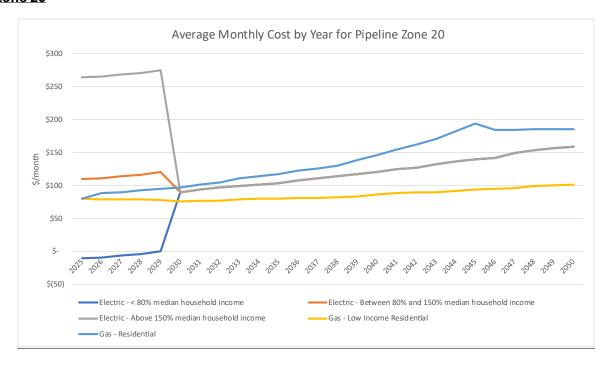
High Growth Case - Customer Perspective (Furnace Cost Reduction Included)

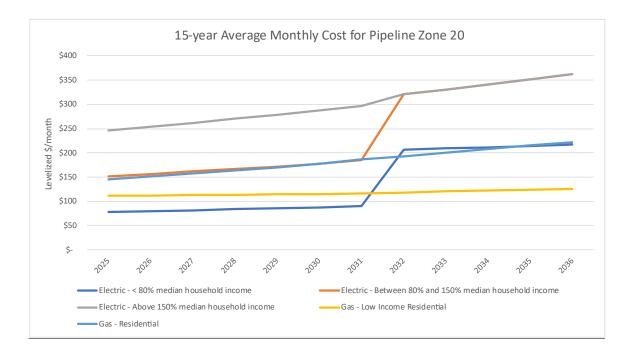


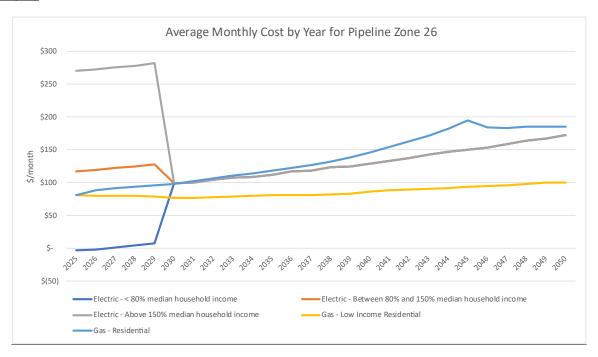


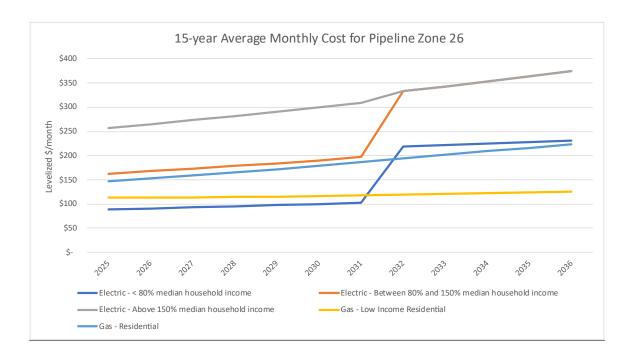






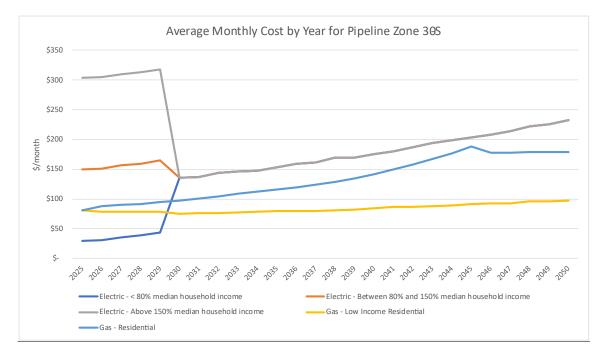


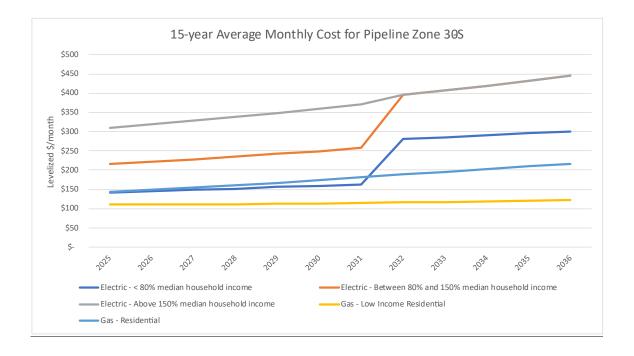




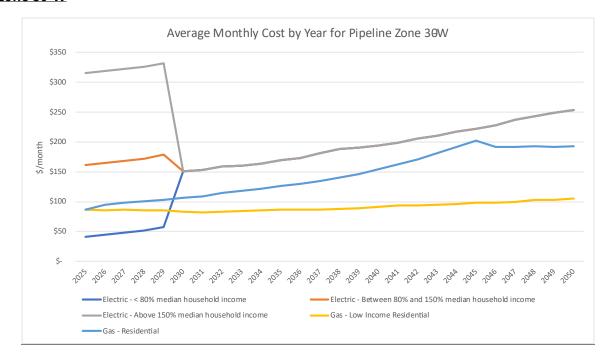
2025 CNGC IRP

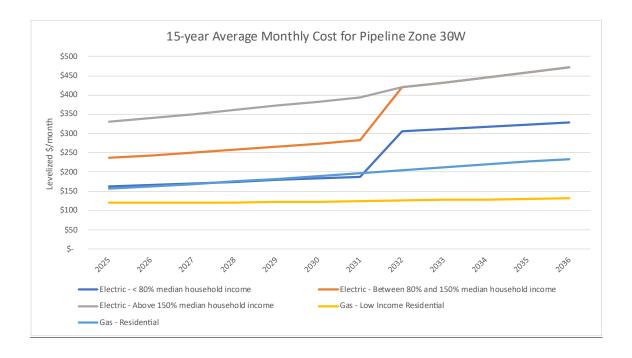
Zone 30-S



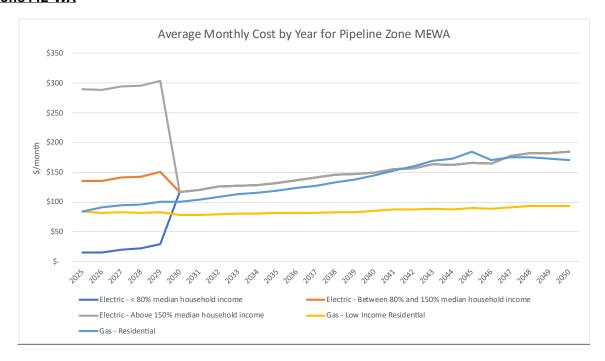


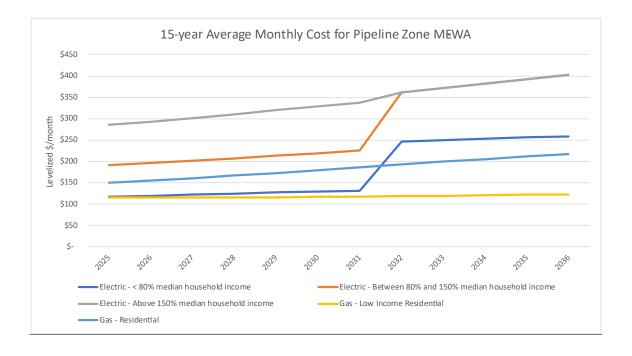
Zone 30-W



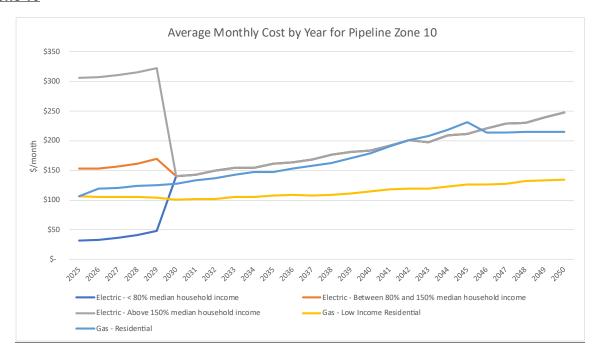


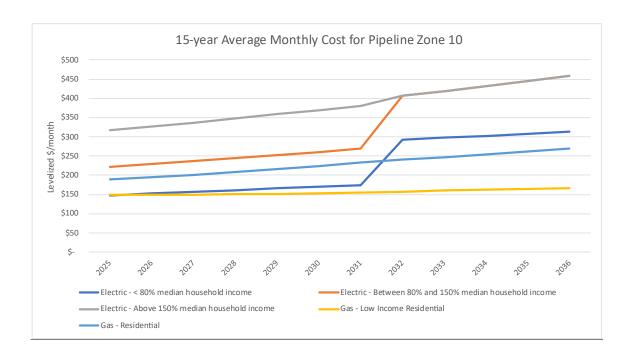
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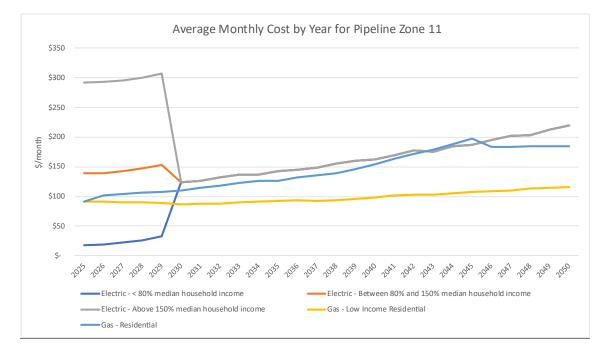


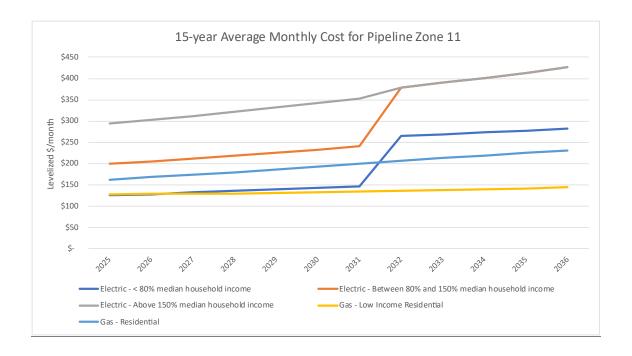
Monte Carlo Simulations - Customer Perspective (Furnace Cost Reduction Included)

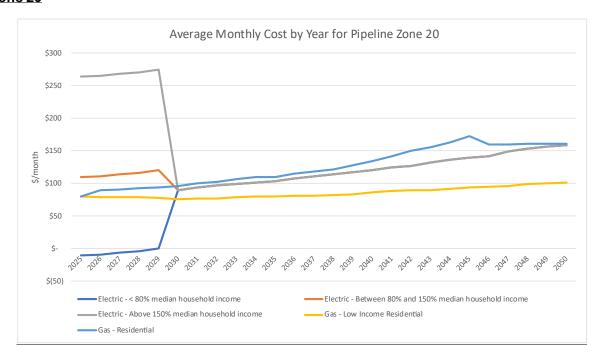


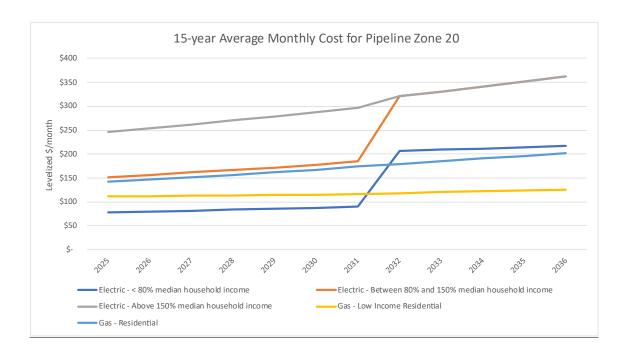


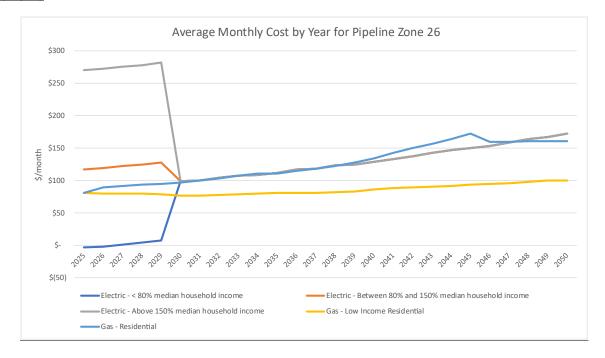
2025 CNGC IRP

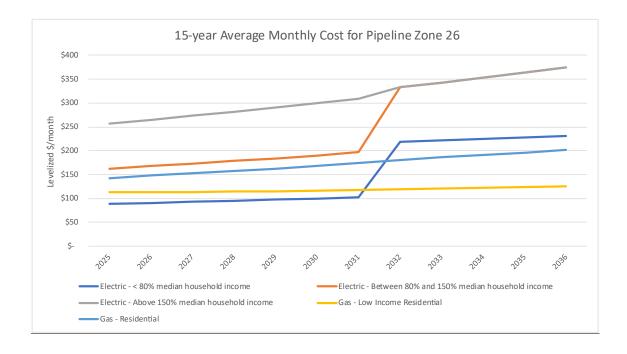


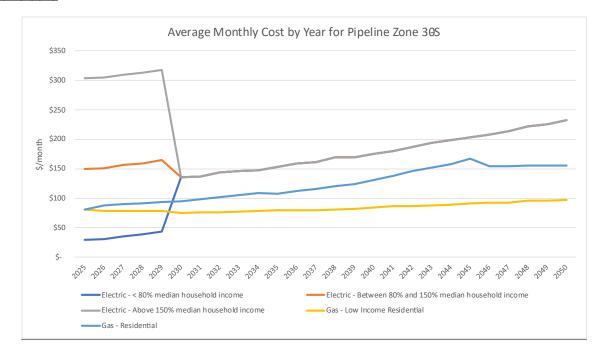


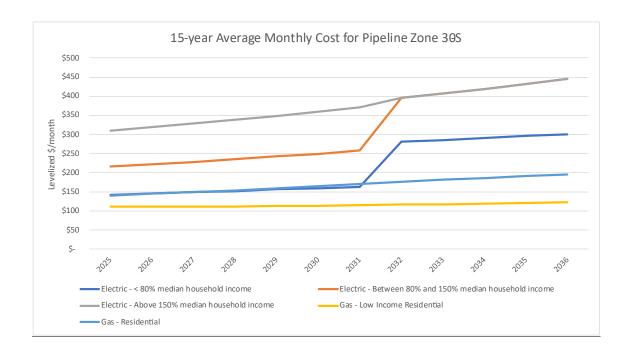




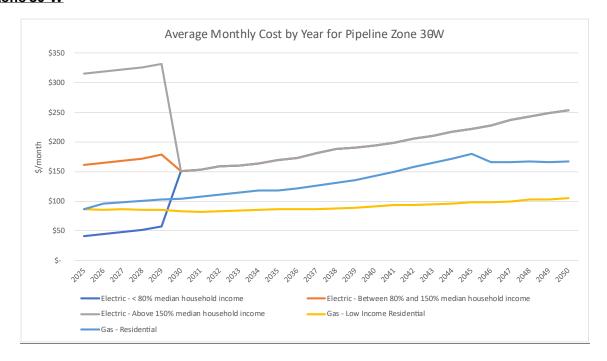


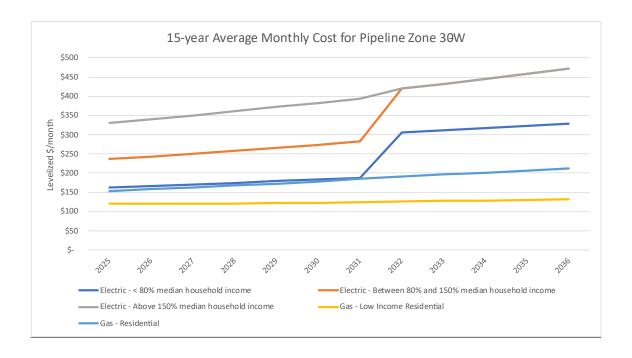






Zone 30-W





Zone ME-WA

