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# Steam to Electric Conversion

Colorado Coalition for the Homeless – Forum Apartments

Presentation to the Safety Committee

November 10, 2021

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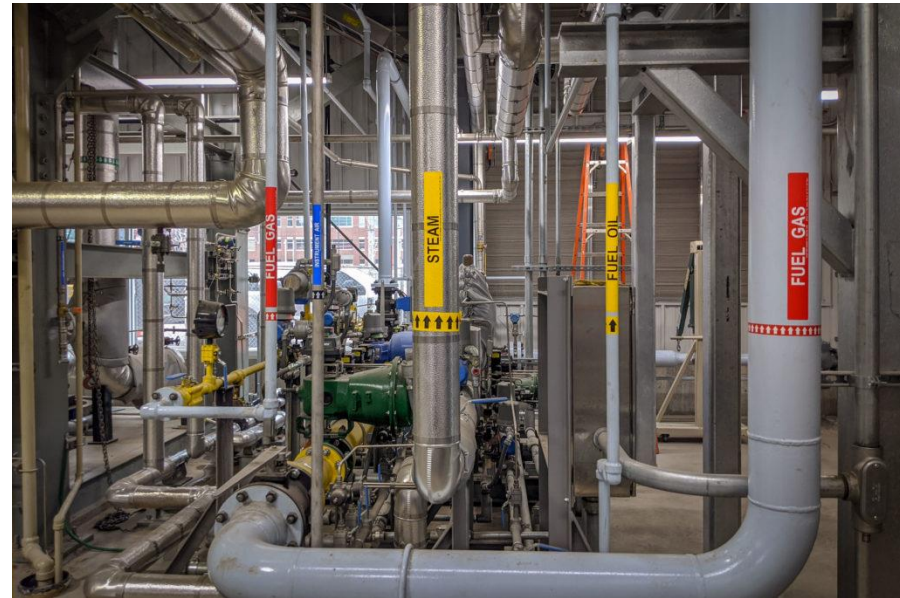
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# Xcel Energy District Steam System

Powered by natural gas boilers, serves 120 buildings in downtown Denver

Provides space heat, water heat, and process load heat

Prices increased 39% in 2019 – buildings seeking alternatives



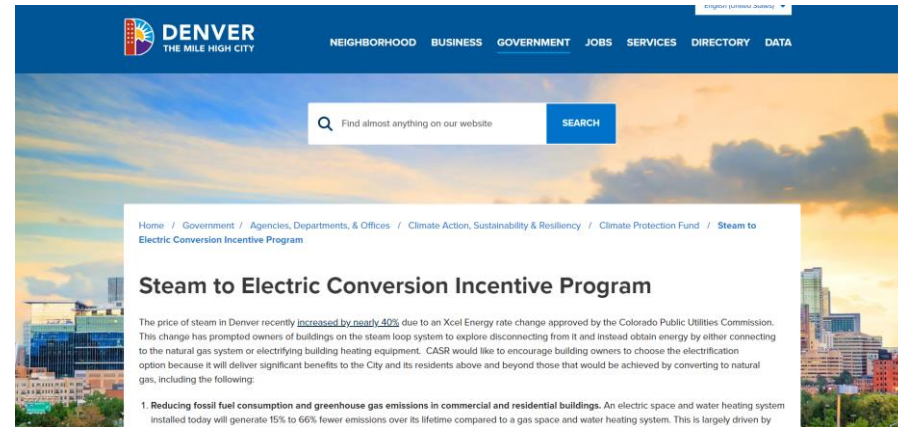
# Steam to Electric Incentive Program Background and Overview

Buildings seeking alternatives for heat by switching to gas or electric heating

Prime opportunity to electrify as buildings consider major infrastructure projects

Incentive program covers the cost difference between gas and electric systems; open to all steam buildings

Funding source: Climate Protection Fund



# Forum Apartments - Services

Permanent supportive housing community  
for homeless individuals since 1996

100 units in the building, serving 100  
individuals

Equity: restricted to 60% of AMI



# Forum Apartments – Electrification Scope

Full Electrification: Packaged Terminal Heat Pump, Electric Boiler, Hot Water

Non-energy benefits: reduced noise, improved air quality, improved thermal comfort

Long term stabilized energy costs in the face of volatile gas prices

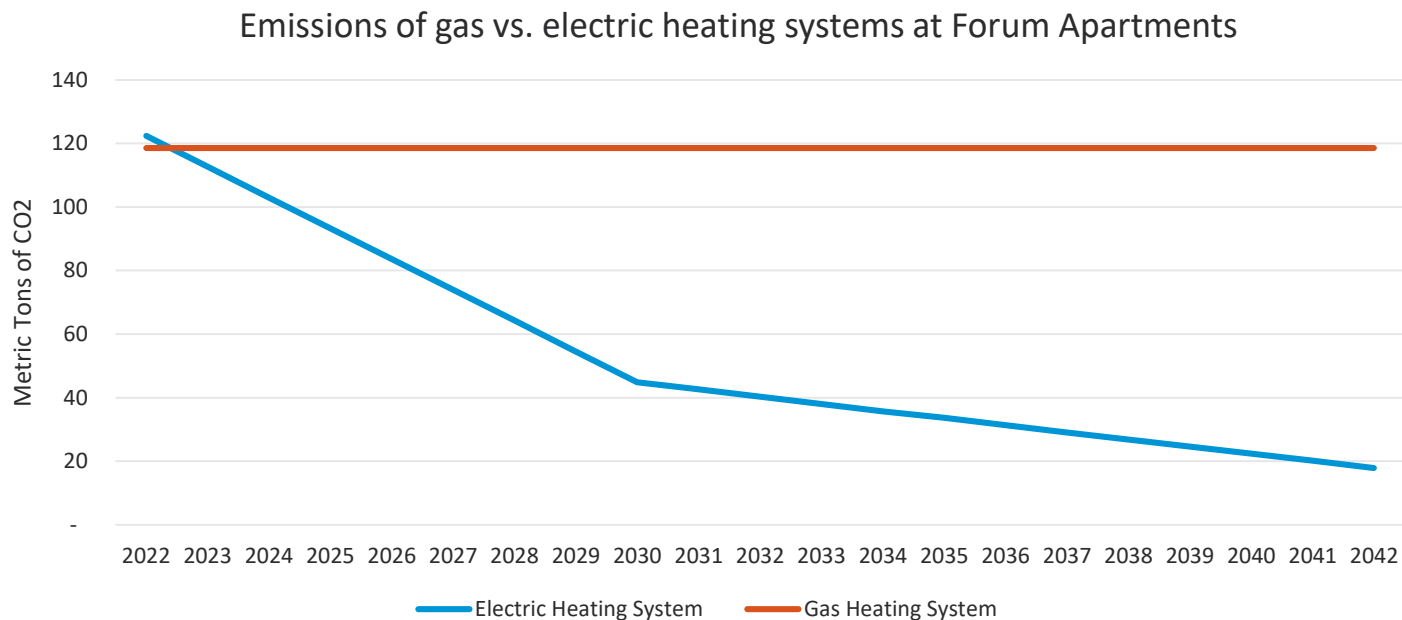
Electrification Cost: \$1,320,733

Gas System Cost: \$397,530

CASR Incentive (difference between gas and electric cost): \$923,203



# Heating System Emissions Comparison



# Forum Apartments – Project Timeline

The project anticipates financial Closing by end of 2021

Notice to Proceed to the General Contractor shortly thereafter

Estimated duration of construction is 12-months



# Bill Request for the Colorado Coalition for the Homeless Forum Apartments Electrification

**Bill submitted to Safety Committee (11/10/21)**

Approves Standard Expenditure Contract with  
Colorado Coalition for the Homeless  
(Contract Control Number: CASR-202160641-00)