

# Energy Smart Eastside

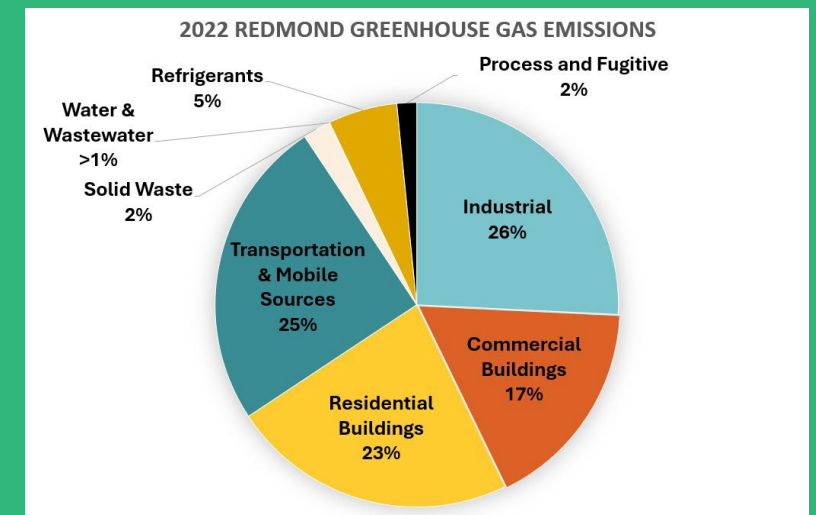
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Supplemental Slides  
March 2024



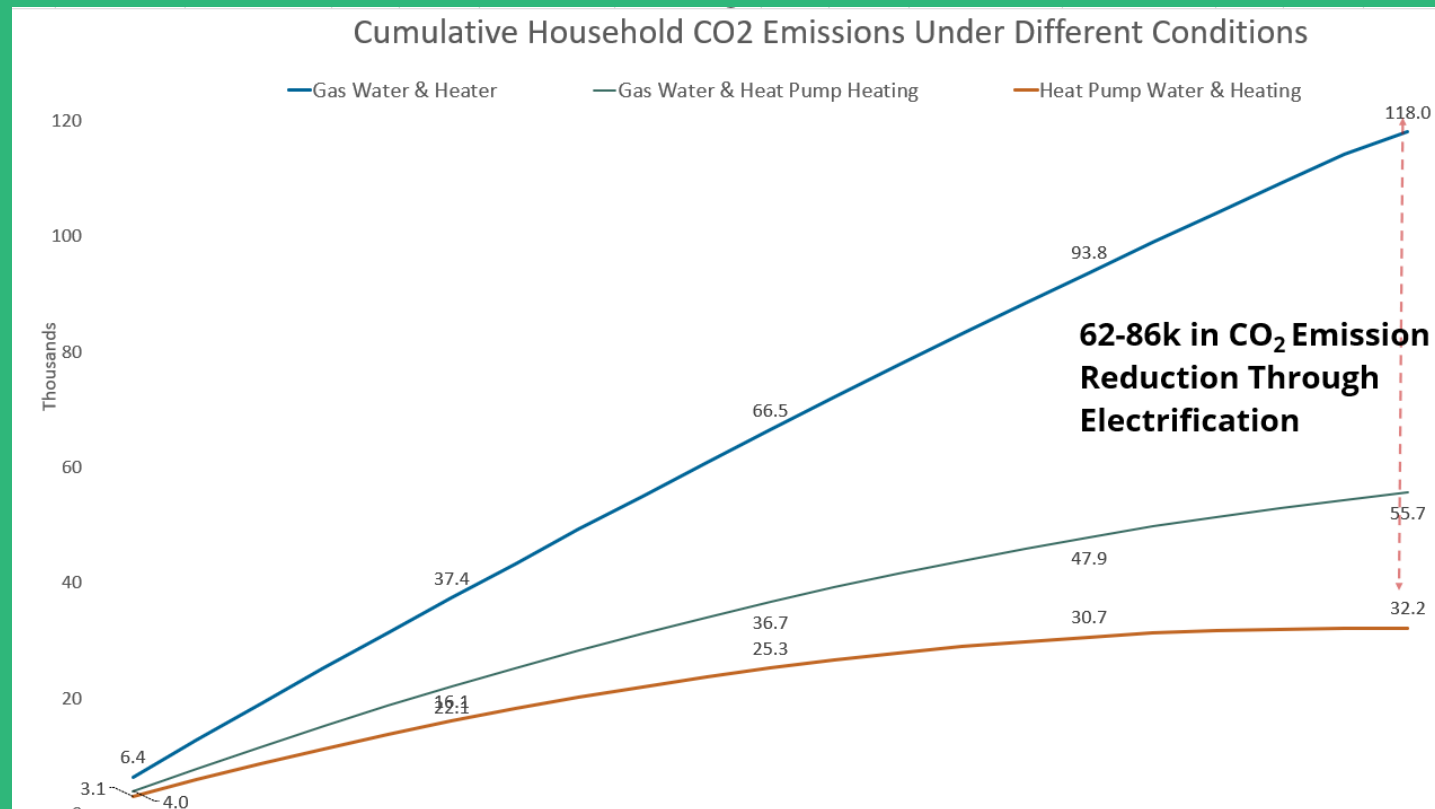
# Why Heat Pumps

- Redmond's ESAP commits the city to reduce greenhouse gas emissions 50% by 2030 and achieve carbon neutrality by 2050.
- Residential energy use accounts for 23% of Redmond's 2022 greenhouse gas emissions.
- To achieve carbon neutrality, we must move away from gas and electrify.



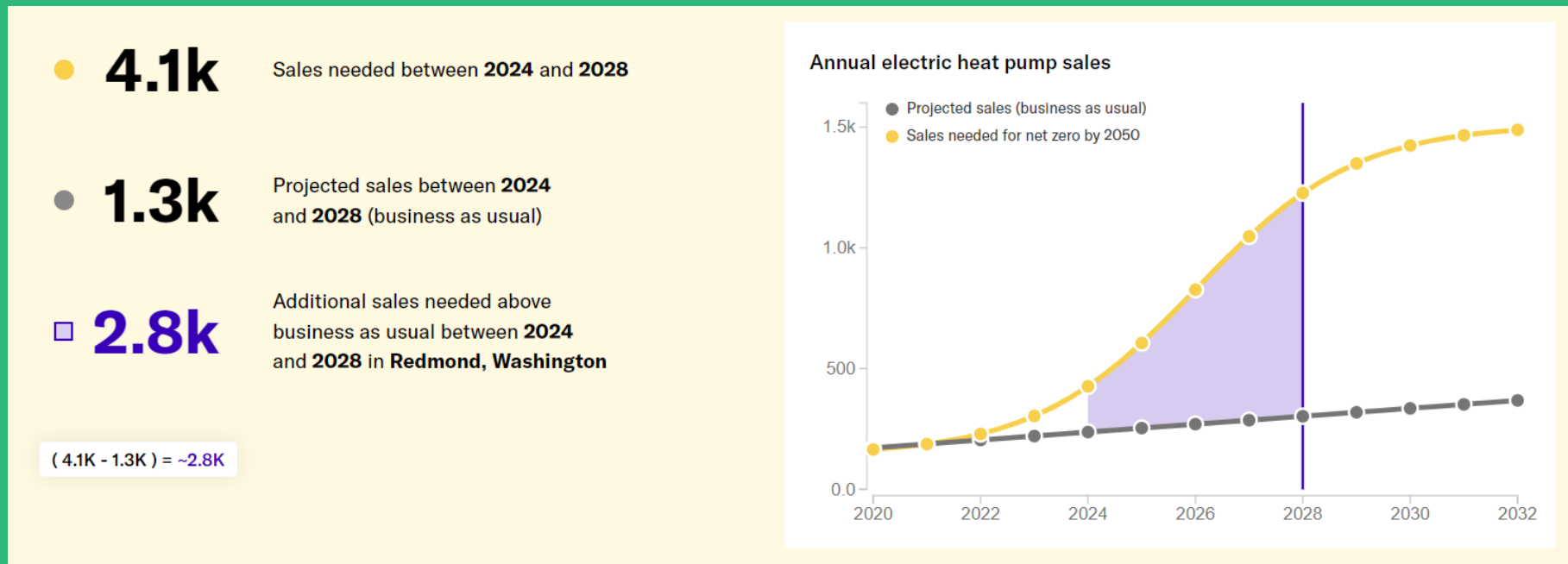
# Benefits

- Replacing a gas furnace today with a heat pump saves CO<sub>2</sub> emissions equivalent of driving a gas car 160,000 miles.



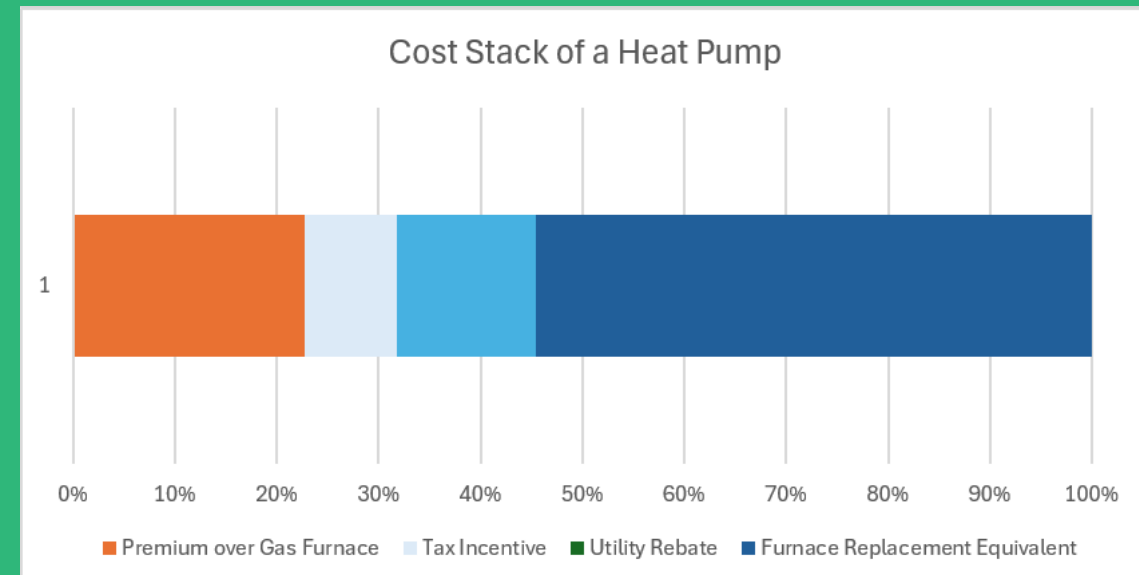
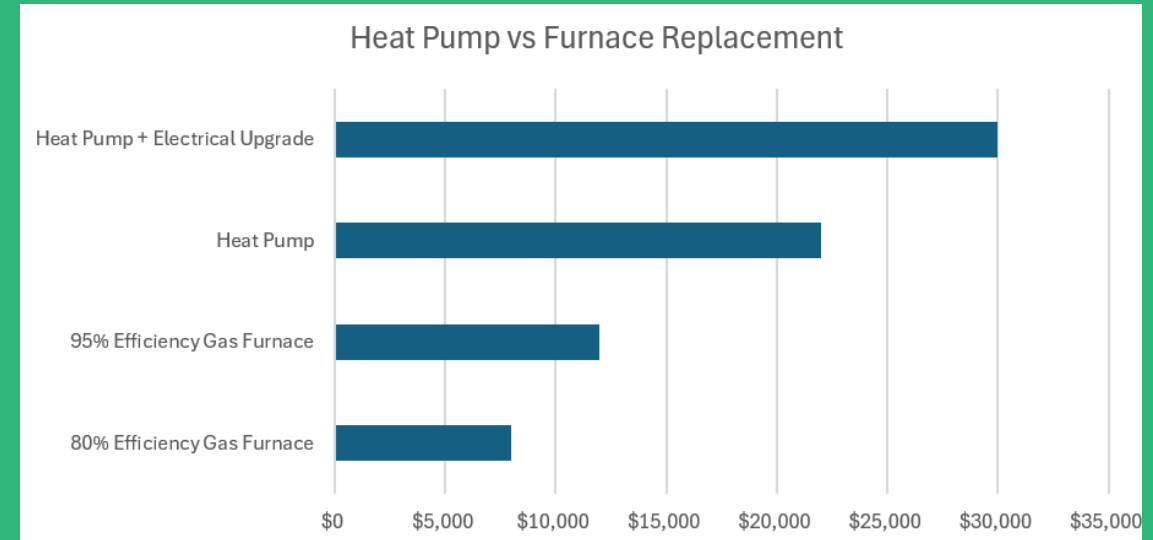
# Needs

- To achieve our goals, Redmond must significantly steepen the pace of heat pump sales in the next four years.



# Costs

- The up-front cost is a significant barrier to heat pump adoption.



# Costs

- 58% of Redmond homeowners may require additional financial support to make the choice to replace a furnace with a heat pump.
- The low current cost of natural gas means that most homeowners do not see an improvement in energy bills sufficient to off-set the additional investment.

## Redmond Homeowner Demographic

Low Income (<80% AMI)	23%
Middle Income (80-150% AMI)	35%
High Income (151%+ AMI)	45%

Energy Bill Savings vs Heat Pump Investment

