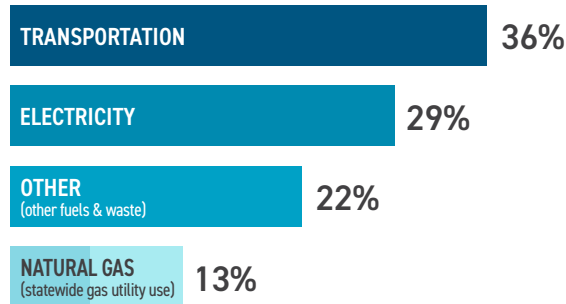## WE ARE PROUD OF THE ESSENTIAL SERVICE WE PROVIDE

- We serve 2.5 million people in Oregon and Southwest Washington, meeting about 90% of the energy needs for our residential space and water heat customers on the coldest winter days.

- Emissions from our residential and commercial customers account for about 6% of Oregon's total greenhouse gas emissions:

OREGON GREENHOUSE GAS EMISSIONS BY SECTOR

TRANSPORTATION	**36%**
ELECTRICITY	**29%**
OTHER (other fuels & waste)	**22%**
NATURAL GAS (statewide gas utility use)	**13%**

6% NW Natural Residential and Commercial Customer Use

Source 1: Oregon DEQ In-Boundary GHG Inventory 2019 data.

?

Does the 6% include fugitive emissions from NW Natural's system?

YES. It also includes emissions associated with our pipelines and storage facilities.[2]

- Our distribution system is one of the tightest, newest pipeline networks in the country.[3]

- We are pursuing renewable natural gas[4] and clean hydrogen gas[5] to drive toward a carbon neutral future.

- We delivered an Integrated Resource Plan[6] to the Public Utility Commission that provides paths to comply with the Climate Protection Program requiring GHG emission reductions of 90% below the established baseline by 2050.

Emissions from our residential and commercial customers account for about 6% of Oregon's total greenhouse gas emissions.

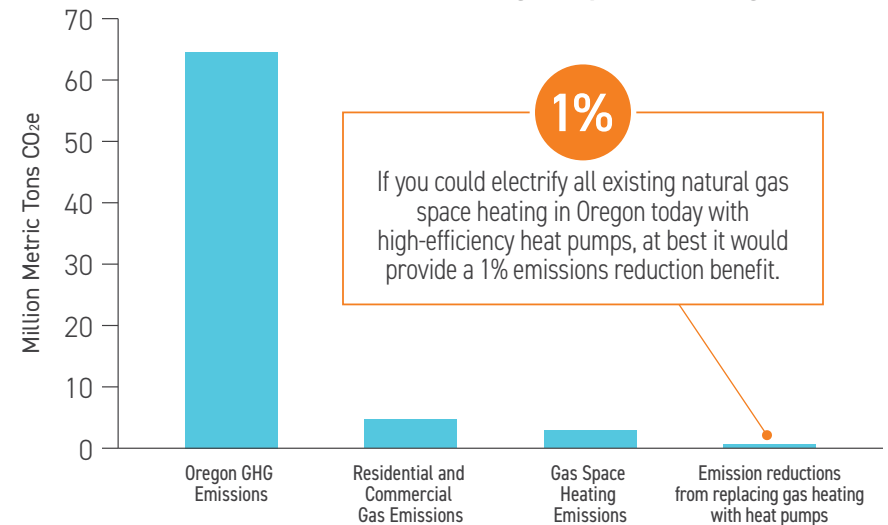## ELECTRICITY DEPENDS ON FOSSIL FUELS

- Oregon electric utilities rely on about as much natural gas for power generation as all the natural gas utilities in the state deliver to customers.[7]

- Coal is also still used to generate Oregon electricity.[8] As the electric system transitions off coal in the years ahead to make progress toward the 100% clean electricity by 2040 law,[9] how much natural gas will be needed to generate power is unknown.

- For example, this past summer, in the face of yet another series of outages, California passed emergency grid reliability legislation that allows for **$2 billion in funding for gas-fired power generation** to meet electric demand, despite California's renewable electricity mandates.[10]
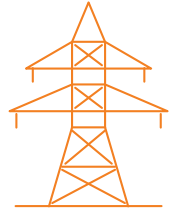
WHAT IF OREGON REPLACED FURNACES WITH HEAT PUMPS?

NW Natural analysis for its 2022 General Rate Case showed if you electrified **all existing gas space heating** in Oregon today with high-efficiency electric heat pumps, at best it would provide a **1% emissions reduction benefit**:

Emissions Reduction Potential for Electrification of Oregon Space Heating

1%

If you could electrify all existing natural gas space heating in Oregon today with high-efficiency heat pumps, at best it would provide a 1% emissions reduction benefit.

Y-axis: Million Metric Tons CO_2e

Categories: Oregon GHG Emissions | Residential and Commercial Gas Emissions | Gas Space Heating Emissions | Emission reductions from replacing gas heating with heat pumps

Source 11: 2022 NW Natural General Rate Case, CUB Data Request Response 73