



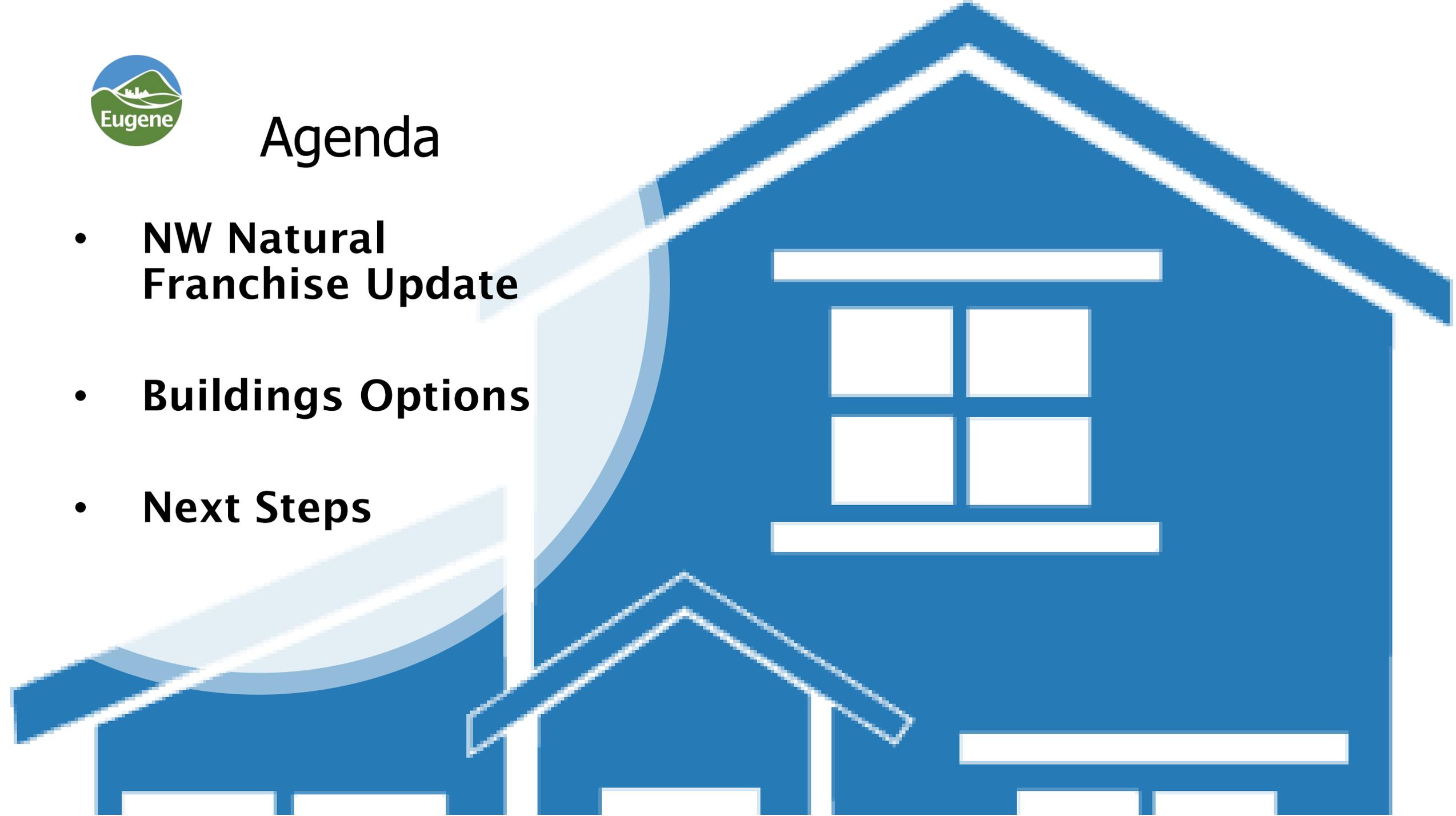
# CAP-Building Update

October 28, 2019



# Agenda

- **NW Natural Franchise Update**
- **Buildings Options**
- **Next Steps**





# NW Natural Gas Franchise Agreement Update

# COMMUNITY CLIMATE RECOVERY ORDINANCE GOALS

## Reduce Fossil Fuel Use

50% reduction by 2030 compared to 2010



## Reduce Community-wide GHG Emissions

Science-based goal to reduce ghgs to Eugene's average share of 350ppm by 2100



# EUGENE'S GREENHOUSE GAS EMISSIONS

FOOD CONSTRUCTION MATERIALS ELECTRONICS



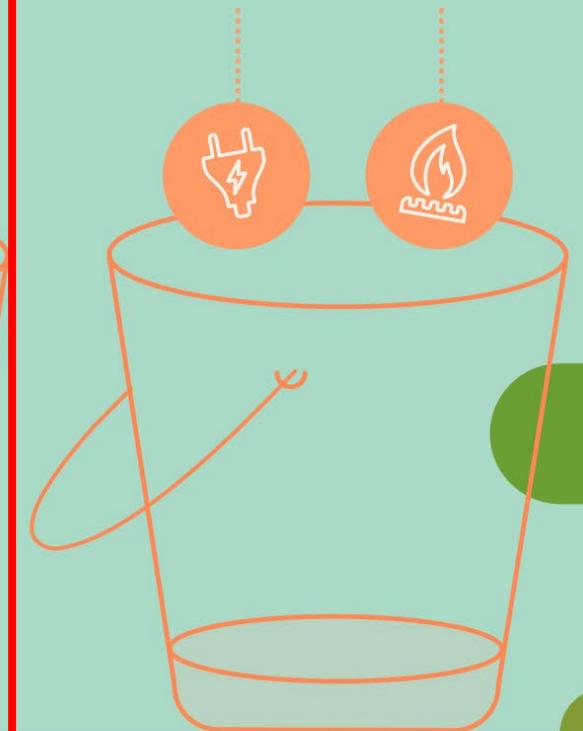
CONSUMPTION

GASOLINE DIESEL



TRANSPORTATION FUELS

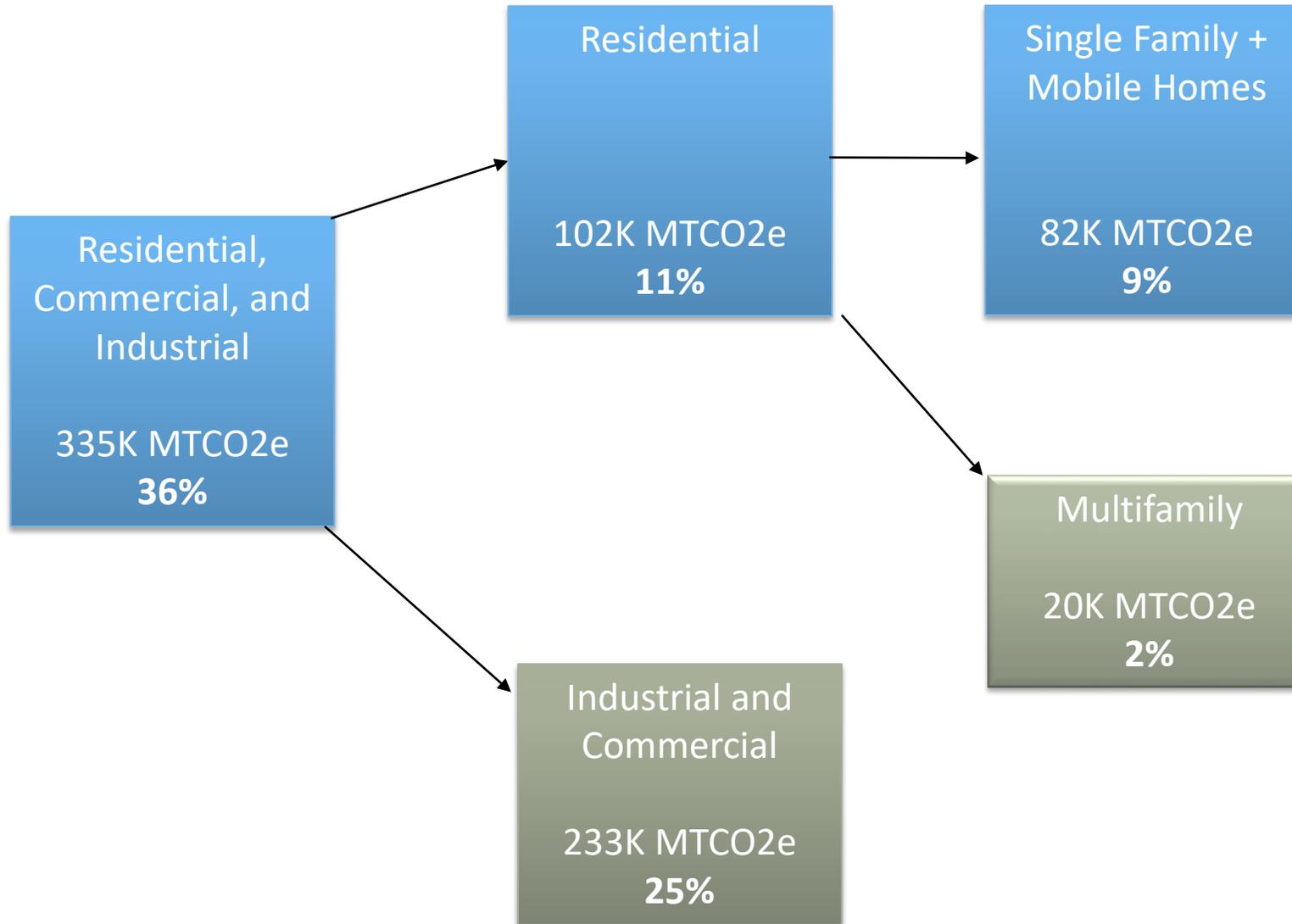
ELECTRICITY NATURAL GAS



ENERGY USED IN BUILDINGS



# Building Carbon Emissions in Eugene



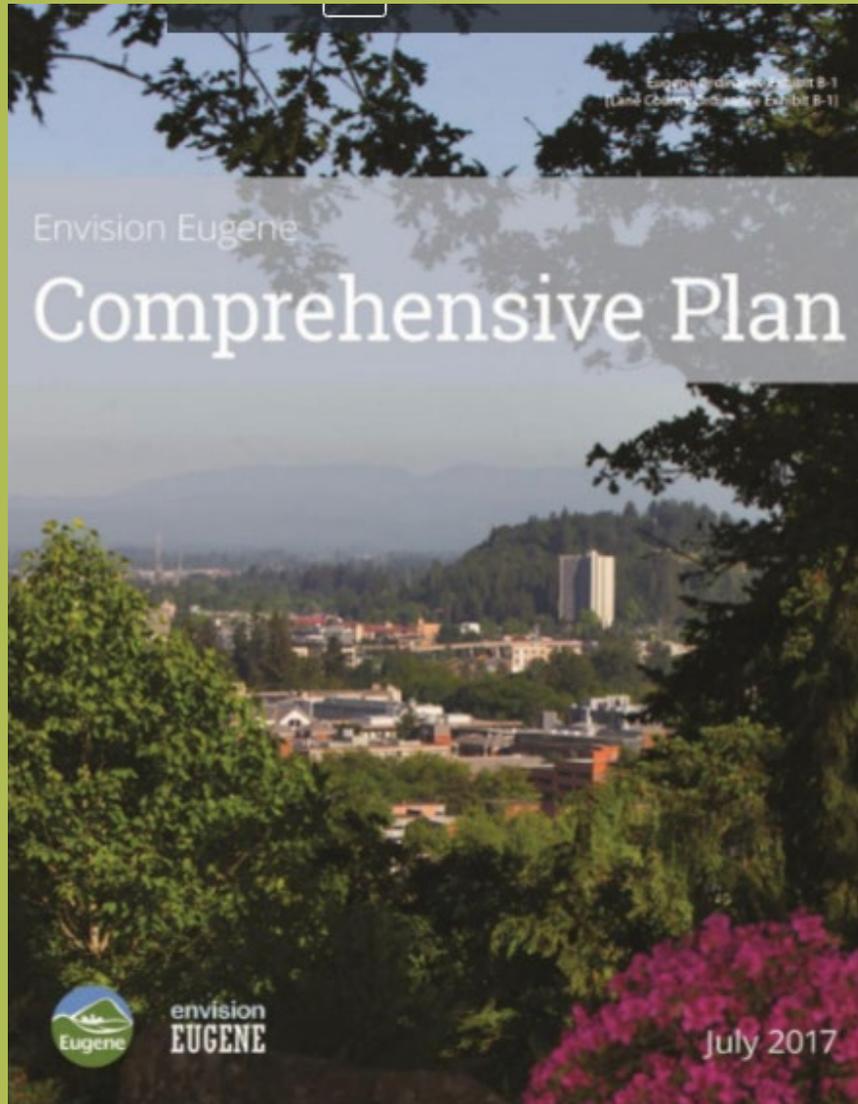


# The CAP2.0 Equation





# CAP2.0 ECC Actions- Energy in Buildings



## Office of the Governor State of Oregon



### EXECUTIVE ORDER NO. 17-20

#### ACCELERATING EFFICIENCY IN OREGON'S BUILT ENVIRONMENT TO REDUCE GREENHOUSE GAS EMISSIONS AND ADDRESS CLIMATE CHANGE

WHEREAS, climate change presents a significant threat to our livelihoods, economic security, environment, health, and well-being.

WHEREAS, there has been an increase in extreme weather events, including more frequent and intense heat waves and wildfires. According to the Oregon Climate Change Research Institute and other regional studies, the best available science indicates Oregon is at risk of serious impacts to its natural resources due to climate change.

- Water resources are being affected by decreased winter snowpack, changes to seasonal runoff patterns, decreased precipitation in Eastern Oregon, and increased intensity and occurrence of flooding.
- Agricultural resources are being affected by increases in temperatures.
- Ocean acidification is increasing and there are changes in ocean currents.
- Significant parts of the Oregon coastal region, stretching 363 miles, will be impacted by an expected rise in sea level up to 1 to 4 feet by 2100, incurring billions of dollars of damages and losses to roadways and structures.
- Climate change impacts threaten the State's agricultural, fishing, timber, recreation, and tourism industries, thereby threatening the livelihood of the State's residents and an important source of Gross State Product for the state.

WHEREAS, energy efficiency leads to significant greenhouse gas reductions that are essential to meeting our state greenhouse gas reduction goals and addressing climate change.

WHEREAS, Oregon is committed to meeting the international Paris Agreement targets to reduce greenhouse gas emissions by 26 to 28 percent below 2005 levels by 2025.

WHEREAS, Oregon has adopted goals to reduce greenhouse gas emissions to 10 percent below 1990 levels by 2020 and at least 75 percent below 1990 levels by 2050 as described in ORS 468A.20.



<b>Gap Strategies</b>	<b>Energy Used In Buildings*</b>	<b>Transportation Fuels*</b>	<b>Other*</b>
<b>Eugene Climate Collaborative Actions</b>			<b>320,000</b>
1. NWN Smart Energy Program	96,000-320,000		
2. No New Natural Gas (Residential only and all modeled)	12,000-40,000		
3. Biogas + Renewable Hydrogen Fuel Switch (10% fuel switch modeled)	35,000		
4. Fee on Natural Gas (Unknown GHG Impact)	Varies.		
5. Home Energy Score + Commercial Benchmarking Program	10,000		
6. Energy Efficiency: Provide Incentives and Explore Regulatory Options	Varies.		
7. ISP adjusted to meet CRU		30,000-70,000	
8. Electric Vehicles (additional 5,000-25,000 EVs)		22,000-110,000	
9. Lobby for State and Federal Action			250,000***
10. Reduce Refrigerent Loss			20,000
11. Capture biogas from organic waste			5,000
12. Offset Program			Varies.
13. Community Innovation Fund			Varies.
<b>Total Reductions</b>	<b>320,000+</b>	<b>180,000+</b>	<b>25,000+</b>
*MT CO2e Reductions by GHG Bucket			
<b>Total Reductions Combined**</b>			<b>845,000+</b>

\*\*Includes highest values of the ranges displayed. \*\*\*Based on modeling for 2019 Oregon Cap and Invest Bill (HB2020).

**Goal: 790,000 MT CO2e**

Optional Actions-Existing Buildings		Status in Eugene	Funding Allocated
1.	Increase incentives for fuel switching (electrification).	EWEB incentive programs	None
2.	Increase incentives for energy efficiency and energy conservation retrofits	EWEB and NW Natural/ETO programs	None
3.	Implement Home Energy Score Program.	ODOE program	None
4.	Implement a commercial and multifamily building energy benchmarking requirement.	Program exist (national programs)	None
5.	Require rental properties to meet specific energy efficiency standard.	Eugene Rental Housing Code exists.	Existing PDD funding
6.	Support for state to adopt a price on carbon	OR 2020 Legislature	Existing IGR funding

Optional Actions-New Buildings		Status in Eugene	Funding Allocated
1.	Implement density recommendations in Envision Eugene.	Planning Division work plan priority	Yes
2.	Incentivize electric space and water heating.	EWEB programs	No COE \$\$, but potential waivers
3.	Regulate natural gas in new construction.	NW Natural Franchise Negotiation	N/A
4.	Regulate expansion of existing natural gas distribution system.	NW Natural Franchise Negotiation	N/A
5.	Governors Executive Order 17-20 requiring net zero construction and EV + PV ready.	Implementing BCD Codes	Existing BPS funding
6.	Support for state to adopt a price on carbon	OR 2020 Legislature	Existing IGR funding



# Next Steps for CAP and Council Action

