



Timeline

- Oct 2018 CAP Adopted
- Jan 2020 Climate Emergency Declaration
 - By 2035, net-zero emissions from building fuels
- Jan 2022 First introduction of building energy resolutions
- July 2022 Informational presentation from NW Natural and Climate Solutions
- Sept 2022 Three separate resolutions introduced
 - City-owned building requirements for retrofits/upgrades
 - Existing buildings voluntary programs and strategies
 - New Construction mandates

Terms and Definitions

Decarbonization: the reduction in carbon dioxide emissions.

Carbon-free energy: Energy that creates no emissions when it is generated (electricity) or used or consumed (other fuels)

Electrification: The transition from fossil fuels to electricity

"Green" Hydrogen: hydrogen gas produced from electrolysis of water using carbon-free electricity

"Blue" Hydrogen: hydrogen gas produced from methane gas, steam and another catalyst

Methane/Natural Gas: Interchangeable terms. Natural gas is a marketing term for methane gas product.

Renewable Natural Gas: A methane gas product that is collected as a biproduct of approved biosolids processing. Equivalent chemical composition and emissions as non-renewable gas products.

RTU – Roof Top Unit

City-owned Buildings

As drafted:

- Establishes decarbonization requirements over time or with triggering event
 - Building purchase/renovations/donation/sale
 - Threshold ~\$50k
- Directs staff to perform a feasibility study by Jan 1, 2024

Staff response:

- City-owned building estimate ~\$2.32M
 - Service upgrade cost TBD
- Recommendation to increase thresholds
 - \$200k reno, \$500k sale/purchase
 - If repair >50% asset value, pursue electrification
 - July 1, 2024 effective date
- Schedule feasibility deadline by June 30, 2024

BUILDING:	2022 ESTIMATE:
CITY HALL	\$683,000*
40 TH AND HARVEY CAMPUS	\$200,000
PUBLIC SAFETY BUILDING**	\$313,000*
ADVANTIS BUILDING	\$250,000*
JOHNSON CREEK CAMPUS	\$428,000*
JC – Front Building	\$260k
JC – PW Operations	\$128k
JC – Pole Barn	\$10k
JC – Sign Shop	\$30k
MILWAUKIE CENTER	\$448,000*
*Service upgrades required	

Question: donation of buildings?

Existing Buildings

VOLUNTARY ONLY! No requirements for existing buildings to change!

As drafted:

- Incentivizes and promotes <u>voluntary</u> electrification programs
 - From discussion: programs should have economic value
- No requirements for existing buildings to change
- Directs staff to develop strategic plan and timeline

Staff response:

- Similar goals and programs called for in existing CAP
- Community engagement to tailor programs to audiences needed
- Focus on weatherization, resiliency and economic incentives would provide benefits to many community members, address largest emitters
- Climate fund essential in being able to offer these programs

New-Construction Buildings

As drafted:

- Recognizes benefits of building decarbonization/electrification
- Prevents new-construction buildings from connecting to fuel-gas infrastructure by February 15, 2024

Staff response:

- City of Eugene staff presenting code language at Eugene 11/15 Council Session
 - Low-rise residential buildings
 - Phased approach for commercial/industrial w/ more engagement
 - Wait to see what language is presented
- Legal/code unknowns, potential costs
 - Climate funds could be used but need to balance other programming.

