

A photograph of three arborists working on a large, mature evergreen tree. The arborists are wearing safety gear, including helmets and harnesses, and are positioned at different heights within the tree's canopy. The tree is covered in green needles and numerous brown pine cones. The background shows a clear blue sky and some distant buildings.

CAP2.0 Additional Strategies

September 22, 2021

Agenda

Sustainability
Program Update

Climate Recovery
Ordinance
Overview

CAP2.0
Additional
Strategies



Sustainability Program Update

Fall Work Session Schedule

*All dates are tentative

- CAP2.0 Additional Strategies (Sept 22)
- EWEB/City of Eugene Joint Work Session (Sept 27)
- Sustainability Commission FY22 Work Plan (Nov 8)
- CAP2.0 Updates: Implementation Plan, Community Engagement, CAP2.0 Reports (Nov 17)
- Climate and Homelessness Funding Strategies (December, TBD)



CAP2.0 Update – November 2021



Community Engagement

The Shift Campaign, Eugene Climate Collaborative, Equity Panel, Sustainability Commission, Sustainable Business, CAP2.0 Dashboard



CAP2.0 Implementation Plan

Summary table of the emissions impact, cost, budget and timeline for each CAP2.0 action. Status updates on each action to be included in January 2022 CAP2.0 Annual Report.



Additional Climate Projects

Carbon offsets update, reports on next steps for some City of Eugene CAP2.0 action.



Welcome to the Eugene Climate Connection!

This newsletter is a tool the City of Eugene will use to share the past quarter's climate accomplishments and updates on progress being made in Eugene's [Climate Action Plan 2.0](#). With so much to understand and keep up with, this newsletter will be an easy way to "stay in the know" about Eugene's climate recovery journey!

In this issue, you can read about how the City of Eugene:

Eugene Climate Connection Newsletter

The background is a blurred image of a document. It features a line graph with a jagged line, a pen resting on the right side, and some handwritten numbers like '2.5' and '2.47'.

Climate Recovery Ordinance Overview

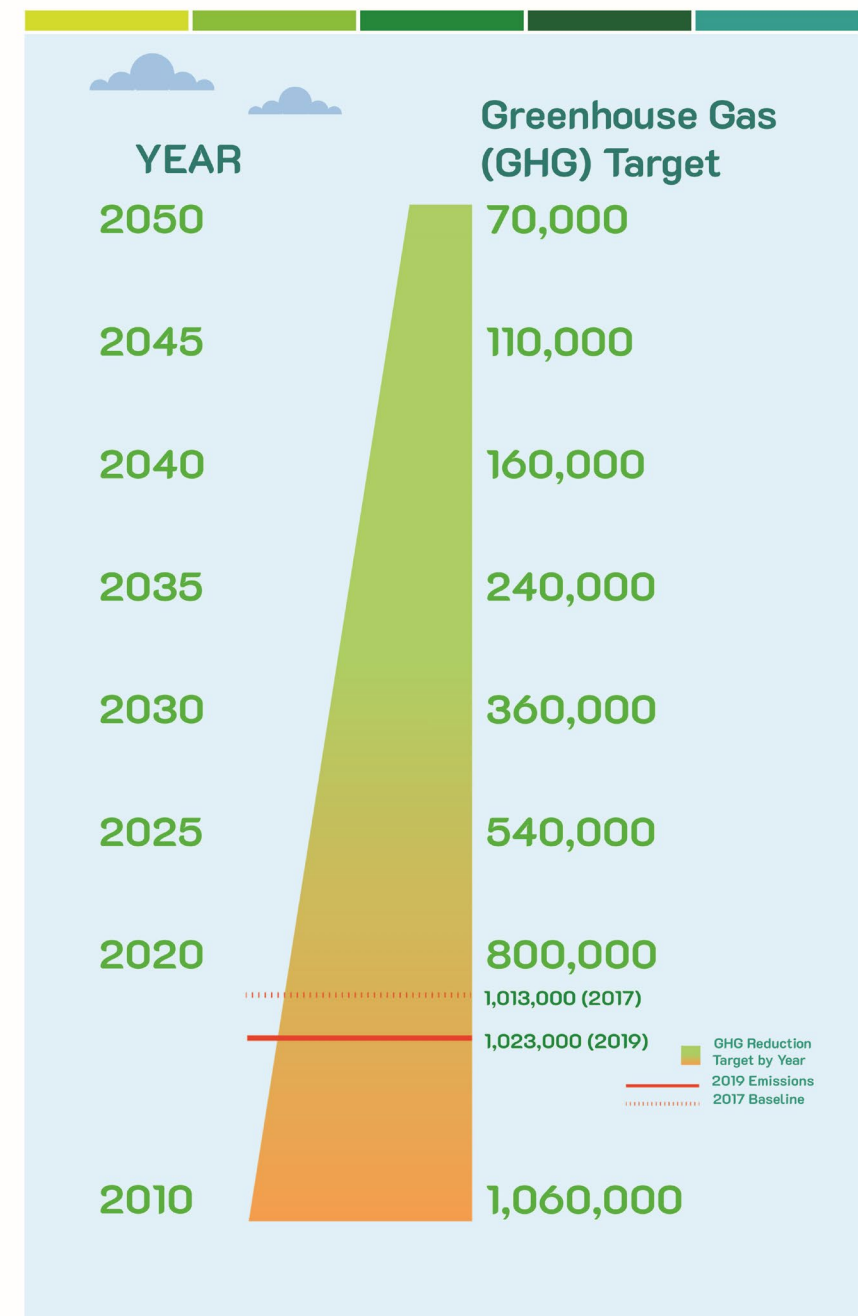


Climate Recovery Ordinance (CRO) Goals Summary

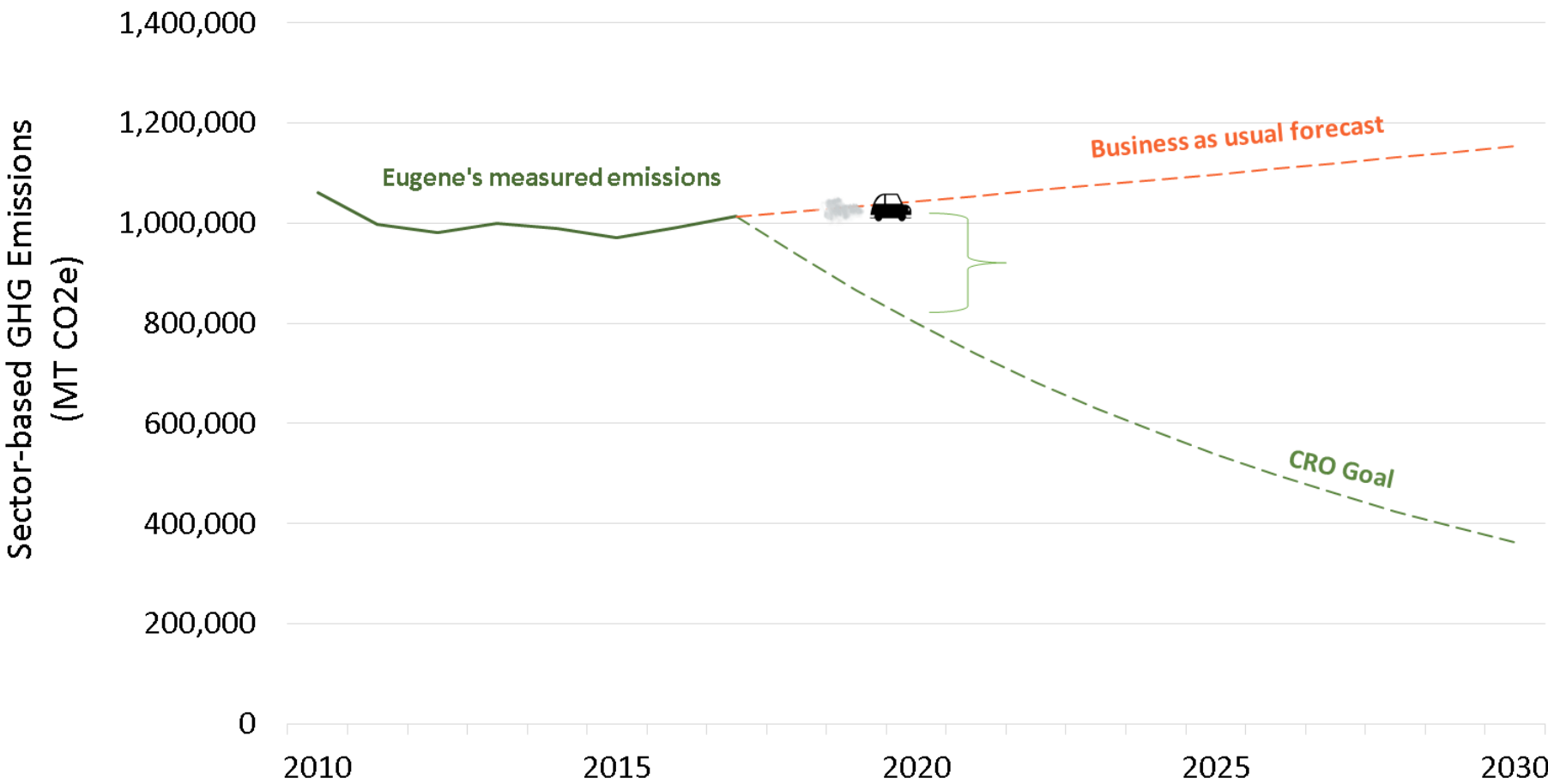
1. Carbon neutrality in operations by 2020
2. Reduce fossil fuel use in operations by 50% by 2030 compared to 2010
3. Reduce fossil fuel use community-wide by 50% by 2030 compared to 2010
4. Reduce community-wide greenhouse gas emissions by 7.6% annually, or about 64% by 2030

Climate Recovery Thermometer

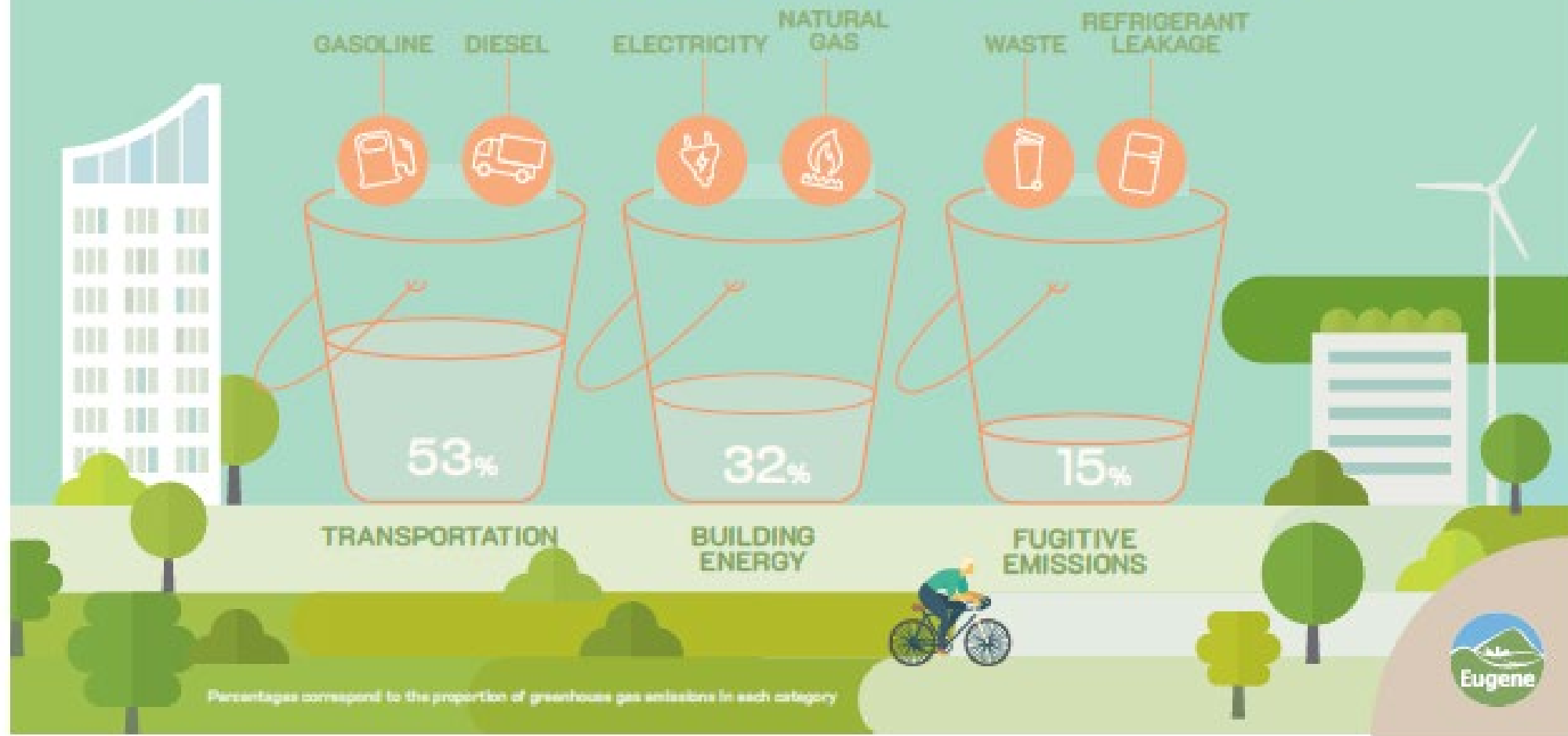
The Climate Recovery Ordinance calls for a 7.6% annual reduction in greenhouse gas emission, or a 64% community-wide emissions reduction by 2030.



Eugene's Community Greenhouse Gas Inventory:
Where are we on the Climate Recovery Map?



EUGENE'S GREENHOUSE GAS EMISSIONS



CAP2.0 12 Additional Strategies



1. Blue – NWN Process

1. Smart Energy Program



2. Salmon – Back Soon

2. Regulate Natural Gas



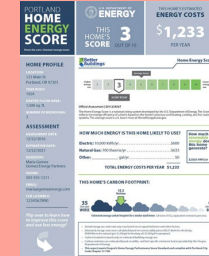
3. Green – Moving Forward

3. Biogas and Renewable Hydrogen



4. Yellow – Always An Option

4. Home Energy Score and Commercial Benchmarking



5. Energy Efficiency and Fuel Switching



6. TSP Updated to Meet CRO Goals



7. Implement Eugene's Electric Vehicle Strategy



8. Lobby for State and Federal Action



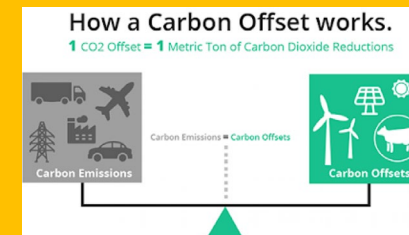
9. Reduce Refrigerant Loss



10. Capture Biogas From Organic Waste



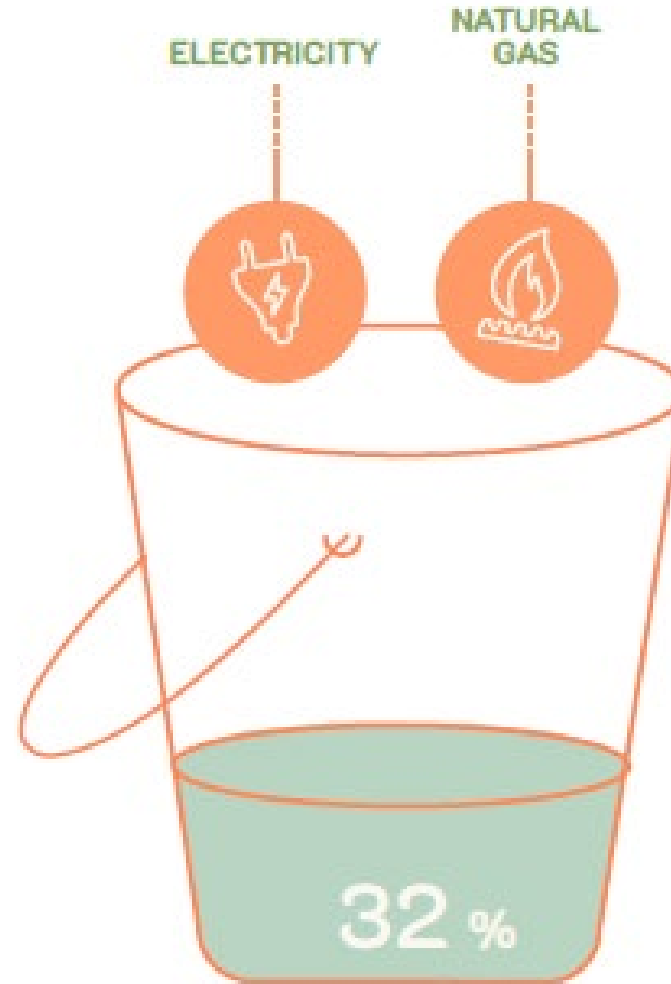
11. Offset Program



12. Community Innovation Fund



Building Energy Emissions Reduction Strategies



1. Smart Energy Program

- Move to a mandatory or automatic enrollment of NWN customers to participate in the Smart Energy Program, a carbon offset program (100% participation in 2030 modeled here).
- Annual MT CO₂e Reduction: 32,000- 320,000
- Needs
 - ☐ More Research
 - ☒ Policy Decision or Direction
 - ☐ Funding

Currently paused due to the NWN franchise work. Policy direction is needed if City Council would like to explore a mandatory Smart Energy Program.



2. Regulate Natural Gas

- Regulate new natural gas infrastructure (residential, commercial, and industrial).
- Annual MT CO₂e Reduction: 40,000
- Needs:
 - ☐ More Research
 - ✓ Policy Decision or Direction
 - ☐ Funding

Currently paused due to the NWN franchise work. Policy direction is needed if City Council would like to explore natural gas regulation in more detail.



3. Biogas and Renewable Hydrogen

- Require NWN to fuel switch to biogas and renewable hydrogen (10% switch modeled)
- Annual MT CO₂e Reduction: 35,000
- Needs:
 - ☐ More Research
 - ☒ Policy Decision or Direction
 - ☐ Funding

Currently paused due to the NWN franchise work. Policy direction is needed if City Council would like to explore requiring biogas, renewable hydrogen, and renewable natural gas.



4. Home Energy Score and Commercial Benchmarking

- These programs require disclosure of energy performance of a building.
- Annual MT CO₂e Reduction: 10,000

Home Energy Score

Needs

- ☐ More Research
- ✓ Policy Decision or Direction
- ✓ Funding

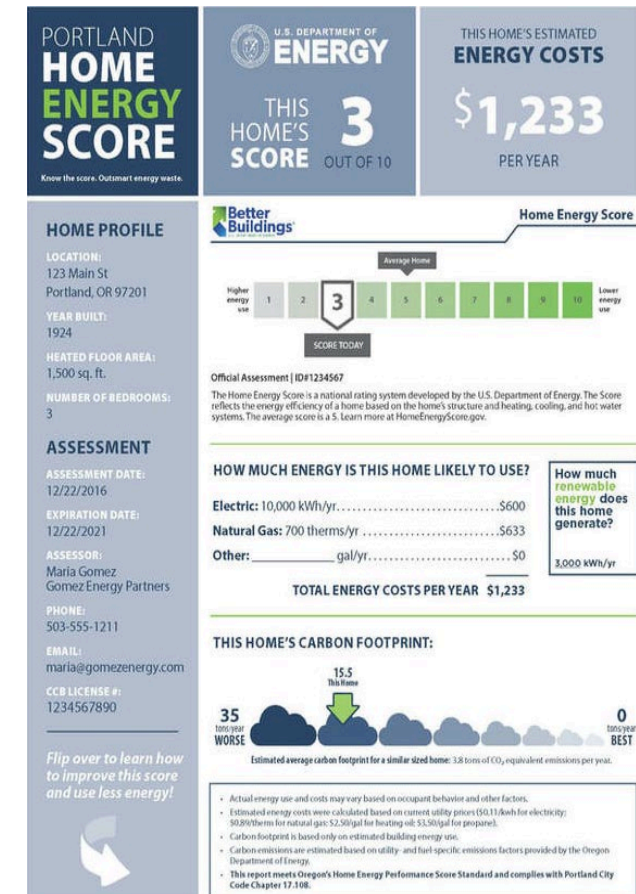
Staff will bring this back as part of the climate funding conversation scheduled for Dec 2021. Anticipated cost: \$75,000/annually.

Commercial Benchmarking

Needs

- ✓ More Research
- ✓ Policy Decision or Direction
- ☐ Funding

Research anticipated to be completed in October 2021.



5. Energy Efficiency: Support Incentives and Explore Regulatory Options

- Support existing energy efficiency programs and explore ways to require more energy efficiency building standards.
- Annual MT CO₂e Reduction: Varies
- Needs:
 - ✓ More Research
 - ✓ Policy Decision or Direction
 - ✓ Funding

Staff anticipate finalizing the report for CAP2.0 Action B2 by the Nov 2021 work session. Anticipated recommendations to move this action forward include providing additional funding.



Transportation Emission Reduction Strategies



6. Transportation System Plan Updated to Meet CRO Goals

- City adopts changes to the Eugene 2035 Transportation System Plan goals, policies and projects to fully meet CRO goals. *(TSP already accounts for 240,000 MT CO₂e annual reduction by 2030)*
- Annual MT CO₂e Reduction: 30,000-70,000
- Needs:
 - ☐ More Research
 - ✓ Policy Decision or Direction
 - ✓ Funding

Transportation Planning staff are planning an update to the TSP in 2022. Staff plan to roll this strategy into that process.



7. Electric Vehicle Strategy

- Electrify the community's on-road passenger vehicles and light trucks as rapidly as possible. (15,000 EVs modeled here.)
- Annual MT CO₂e Reduction: 66,000
- Needs:
 - ☐ More Research
 - ☐ Policy Decision or Direction
 - ✓ Funding

Staff will incorporate funding recommendations to support the EV Strategy in the Climate Funding conversation in Dec 2021.



Fugitive Emissions Reduction Strategies



9. Reduce Refrigerant Loss

- Reduce refrigerant gases leaked from appliances. (25% reduction modeled)
- Annual MT CO₂e Reduction: 20,000
- Needs:
 - ☐ More Research
 - ☐ Policy Decision or Direction
 - ☐ Funding

*City of Eugene is planning to complete action F4 in 2022.
No action needed until report comes back in 2022.*



10. Capture Biogas From Organic Waste

- Biogas from organic waste can be captured and used as a renewable transportation fuel. (25% food waste diversion modeled).
- Annual MT CO₂e Reduction: 5,000
- Needs:
 - ☐ More Research
 - ☐ Policy Decision or Direction
 - ☐ Funding

No action needed at this time. Lane County is leading this action and expects to complete a feasibility study in late 2021.



Additional Strategies

8. Lobby for State and Federal Action

- State and federal action can have significant impact at the local level.
- Annual MT CO₂e Reduction: Varies
- Needs:
 - ☐ More Research
 - ✓ Policy Decision or Direction
 - ☐ Funding

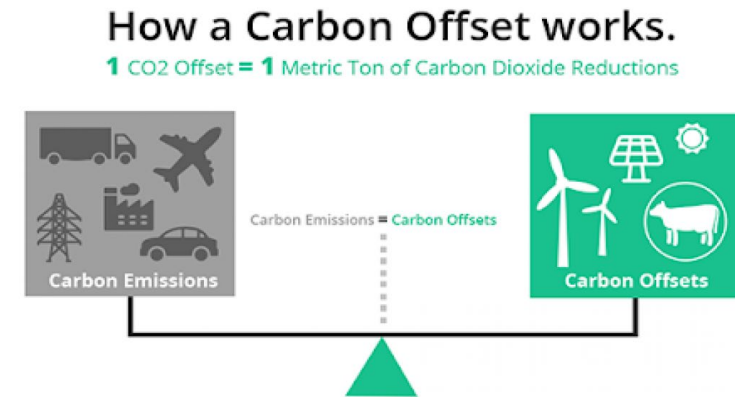
Eugene's [2021 Legislative Priorities](#) included explicit priorities around climate recovery. Ongoing via the City Council's Intergovernmental Relations Committee. See an overview of the City's 2021 Legislative Session [here](#).



11. Carbon Offsets

- Purchase carbon offsets
- Annual MT CO2e Reduction: Varies
- Needs:
 - ☐ More Research
 - ☒ Policy Decision or Direction
 - ☐ Funding

*Always an option, but not currently being pursued.
Council direction needed to advance this strategy further.*



12. Community Innovation Fund

- Support community initiatives for climate mitigation and resiliency with small grants.
- Annual MT CO2e Reduction: Varies
- Needs:
 - ☐ More Research
 - ☐ Policy Decision or Direction
 - ☐ Funding

Integrated into the Community and Neighborhood Matching Grant Program. Action is complete. Outreach is ongoing. [Community and Neighborhood Matching Grant Program Website is linked here.](#)



1. Green – Moving Forward

1. Smart Energy Program



2. Yellow – Paused/ NWN Franchise

2. Regulate Natural Gas

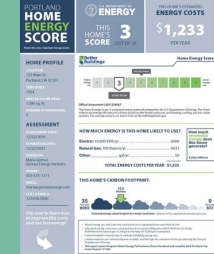


3. Salmon – Longer Term

3. Biogas and Renewable Hydrogen



4. Home Energy Score and Commercial Benchmarking



5. Energy Efficiency and Fuel Switching



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7. Implement Eugene's Electric Vehicle Strategy



8. Lobby for State and Federal Action



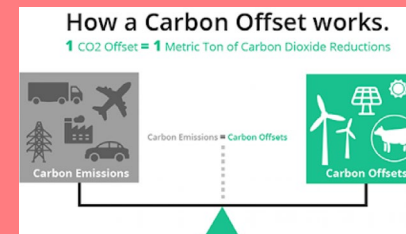
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10. Capture Biogas From Organic Waste



11. Offset Program



12. Community Innovation Fund



Paused/Long Term Strategy

- 1. Smart Energy Program
- 2. Regulate Natural Gas
- 3. Biogas and Renewable Hydrogen
- 11. Carbon Offsets

Coming Back in November

- 4. Home Energy Score Next Steps and Commercial Benchmarking Research
- 5. Energy Efficiency and Electrification Report

Coming Back in December for Funding WS

- 4. Home Energy Score
- 5. Energy Efficiency and Electrification
- 7. EV Strategy

Back in 2022

- 6. TSP Update
- 9. Reduce Refrigerant Loss
- 10. Capture Biogas from Organic Waste

Ongoing

- 8. Lobby at State and Federal Level
- 12. Community Innovation Fund