



# Oregon Climate Action Commission

Informational Hearing

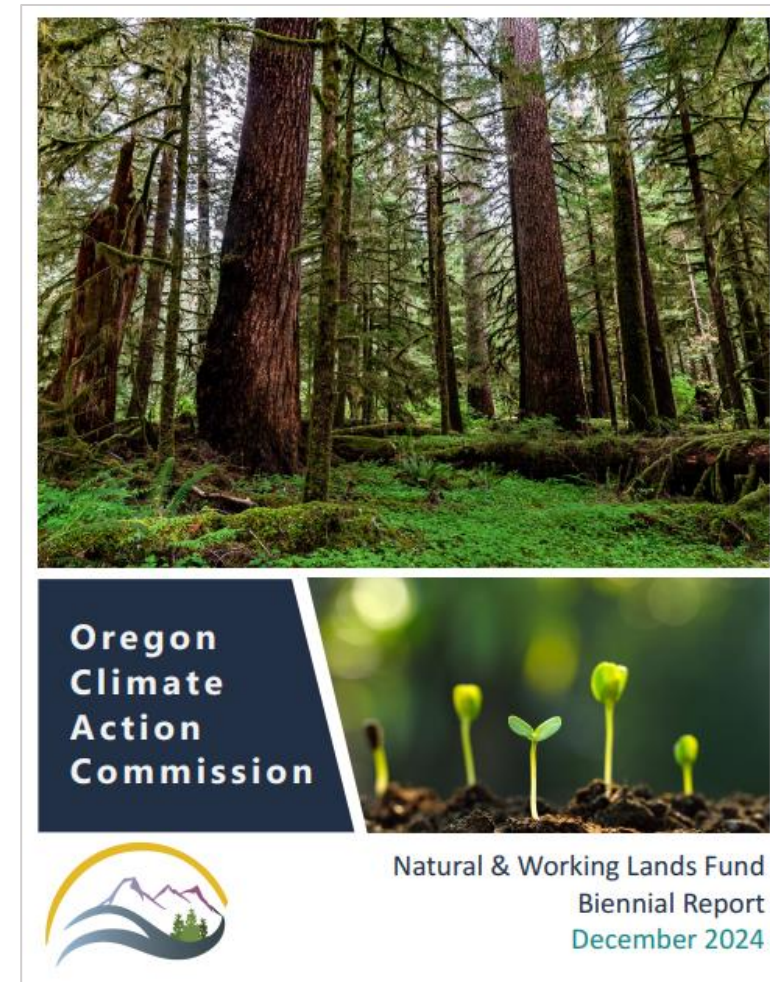
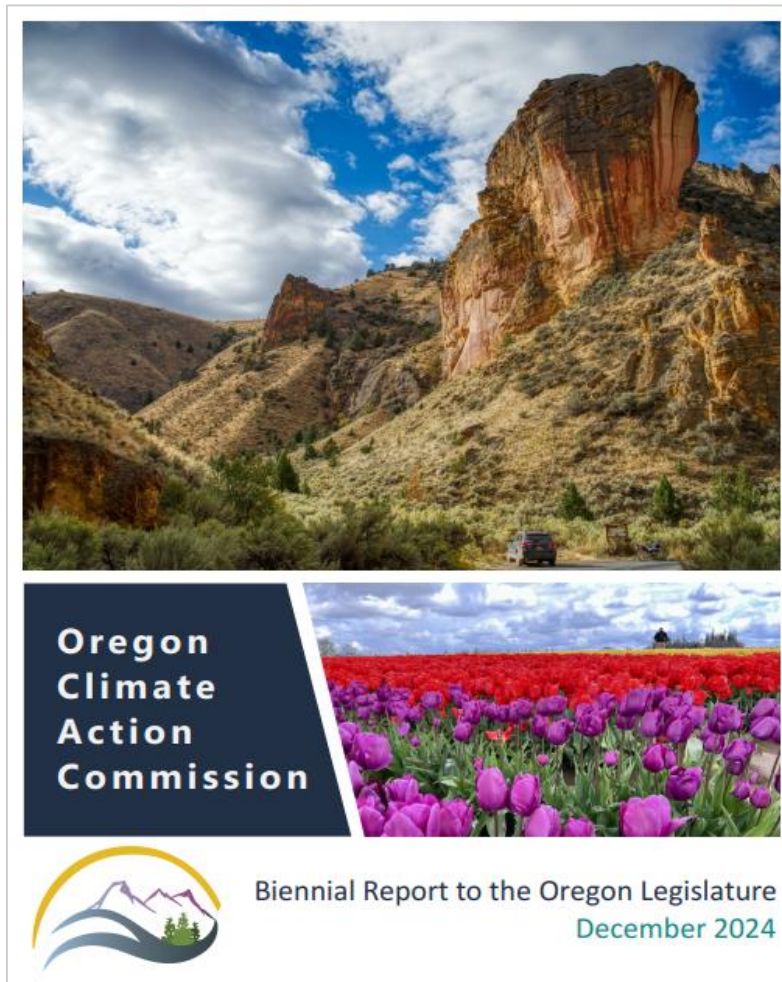
Senate Interim Committee on Energy and Environment

Catherine Macdonald, OCAC Chair  
Geoff Crook, ODOE

December 11, 2024



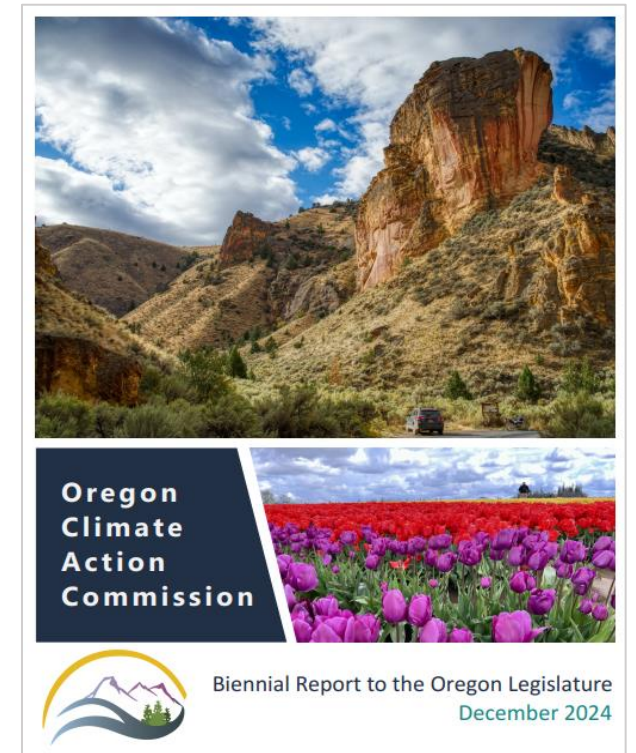
# 2024 OCAC LEGISLATIVE REPORTS



# 2024 OCAC BIENNIAL REPORT

## Includes:

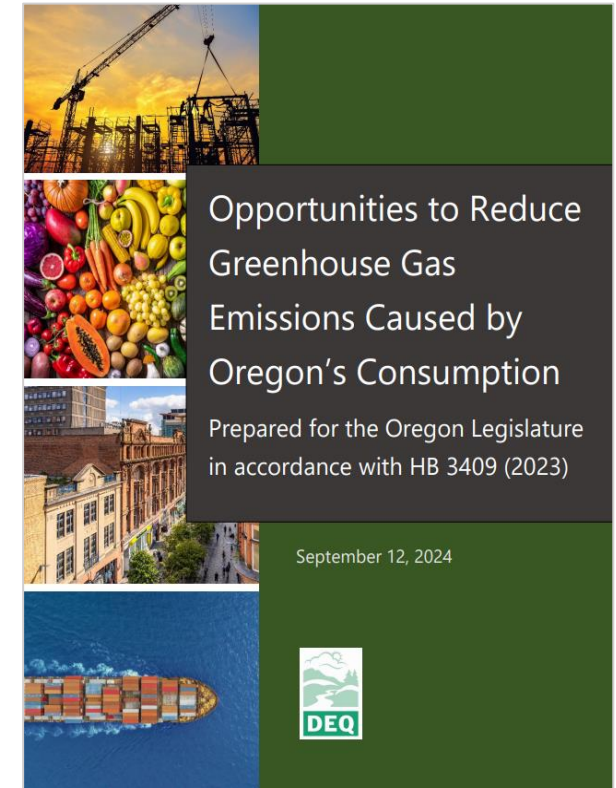
- Impacts of climate change across Oregon's economy and landscapes
- Policies and programs being advanced in Oregon to reduce greenhouse gas (GHG) emissions and increase sequestration in Natural and Working Lands
- The state's progress in reaching our GHG emissions reduction goals
- Recommendations for actions necessary to ensure Oregon stays on track and accelerates progress in reducing emissions and increasing net sequestration





# 2024 OCAC BIENNIAL REPORT

The Biennial Report builds on analysis and recommendations found in the OCAC's *Roadmap to 2030* and *N&WL Proposal*, and DEQ's report to the legislature on *Opportunities to Reduce Greenhouse Gas Emissions Caused by Oregon's Consumption*.



# LEGISLATIVE PROGRESS

## 2023 Legislative policy advances; examples from HB 3409:

- Reducing emissions through energy efficiencies in the built environment, including building performance standards and a residential heat pump program
- Directing DEQ to update the state's consumption-based emissions (CBE) inventory and recommendations for reducing CBE
- Advancing a framework for implementing natural climate solutions
- Funding for the state's climate planning and GHG modeling update
- Funding for green infrastructure and resilience programs
- Modernizing and adding duties, members, and capacity to the Oregon Climate Action Commission



# FEDERAL INVESTMENTS

## 2023-24 Inflation Reduction Act highlights include funding for:

- **Climate Pollution Reduction Grant (CPRG)** — Oregon was awarded \$197 million through EPA's CPRG program to fund GHG reduction measures for transportation, materials management, and energy efficiency
- **Home Efficiency Rebates (HOMES)/ Home Electrification and Appliance Rebates (HEAR)**—Oregon received \$113 million in funding to support residential energy rebates.
- **Pacific Northwest Hydrogen Hub** — Up to \$1 billion to support a clean hydrogen hub. U.S. DOE awarded an initial \$27.5 million investment in the Hub in July 2024
- **Solar for All** — U.S. EPA awarded \$86.6 million for renewable energy adoption
- **Urban and Community Forestry** — USFS awarded \$26.6 million with \$10 million dedicated to Oregon Tribes



# STATE AGENCY CLIMATE ACTIONS

2023-24 highlights, as result of legislative direction and federal funding opportunities:

- Oregon's Priority Climate Action Plan completed
- ODOE has awarded over \$40 million in Community Renewable Energy Grant funding for communities across the state
- DHS established a program for community resilience hubs and networks
- PUC and utilities are advancing work on clean energy plans / IRPs and Reliability Plans per HB 2021
- Progress on DEQ rulemaking and recent reinstatement of the Climate Protection Program

# SECTOR BASED GHG EMISSIONS

Oregon Emissions in Million Metric Tons of CO<sub>2</sub>e by Sector: 1990-2022 (Source: DEQ, 2024)

Sector	1990	1995	2000	2005	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Transportation	21	22	24	24	22	21	21	20	21	22	22	24	24	23	19	21	20
Residential & Commercial	16	20	23	22	23	22	20	21	20	21	19	20	20	22	20	20	20
Industrial	13	16	17	13	11	11	11	11	12	12	11	11	12	12	12	13	13
Agriculture	6	6	5	7	6	7	6	6	6	6	6	6	6	6	5	5	5
<b>Totals</b>	<b>56</b>	<b>65</b>	<b>70</b>	<b>66</b>	<b>62</b>	<b>61</b>	<b>59</b>	<b>59</b>	<b>59</b>	<b>61</b>	<b>59</b>	<b>61</b>	<b>61</b>	<b>62</b>	<b>57</b>	<b>60</b>	<b>59</b>



# CONSUMPTION BASED GHG EMISSIONS

Consumption Based Emissions, 1990-2021 (DEQ, 2024)

Year	Consumption-Based Emissions (in million MTCO <sub>2</sub> e)
1990	62.4
2005	79.6
2010	80.2
2015	88.7
2021	95.6



Oregon's consumption-based emissions were 53 percent higher than 1990 levels and have risen steadily over time.



The gap between the state's sector-based and consumption-based emissions has grown by nearly seven times between 1990 and 2021.

# OVERARCHING RECOMMENDATIONS

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## The Commission adopted 8 overarching recommendations:

1. Adopt **updated state greenhouse gas goals** consistent with the best available science.
2. Support robust and continuous implementation of Oregon's **existing climate programs and regulations**.
3. Advance a set of **additional climate actions** to help Oregon meet an accelerated greenhouse gas reduction goal of 45 percent below 1990 levels by 2030.
4. Position the state to take full advantage of **federal investments in climate action**.

# OVERARCHING RECOMMENDATIONS, (CONT.)

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5. Design policies and programs with effective Tribal and community engagement and **ensure equitable implementation** of climate action in Oregon.
6. Design policies, programs, and practices to **advance climate resiliency** in Oregon's natural and working lands, communities, and economy.
7. Investigate options and create a **sustained source of state funding for climate action**, including establishment of a Green Bank to use the state's bonding capacity and incentivize private investments in a clean energy transition and natural climate solutions.
8. Fund the Oregon Department of Energy, in partnership with Oregon Health Authority, to **improve data and evaluation** for the public health co-benefits of the state's climate investments.



# UPDATING THE STATE'S GHG GOALS

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## 1. Adopt updated state greenhouse gas goals consistent with the best available science.

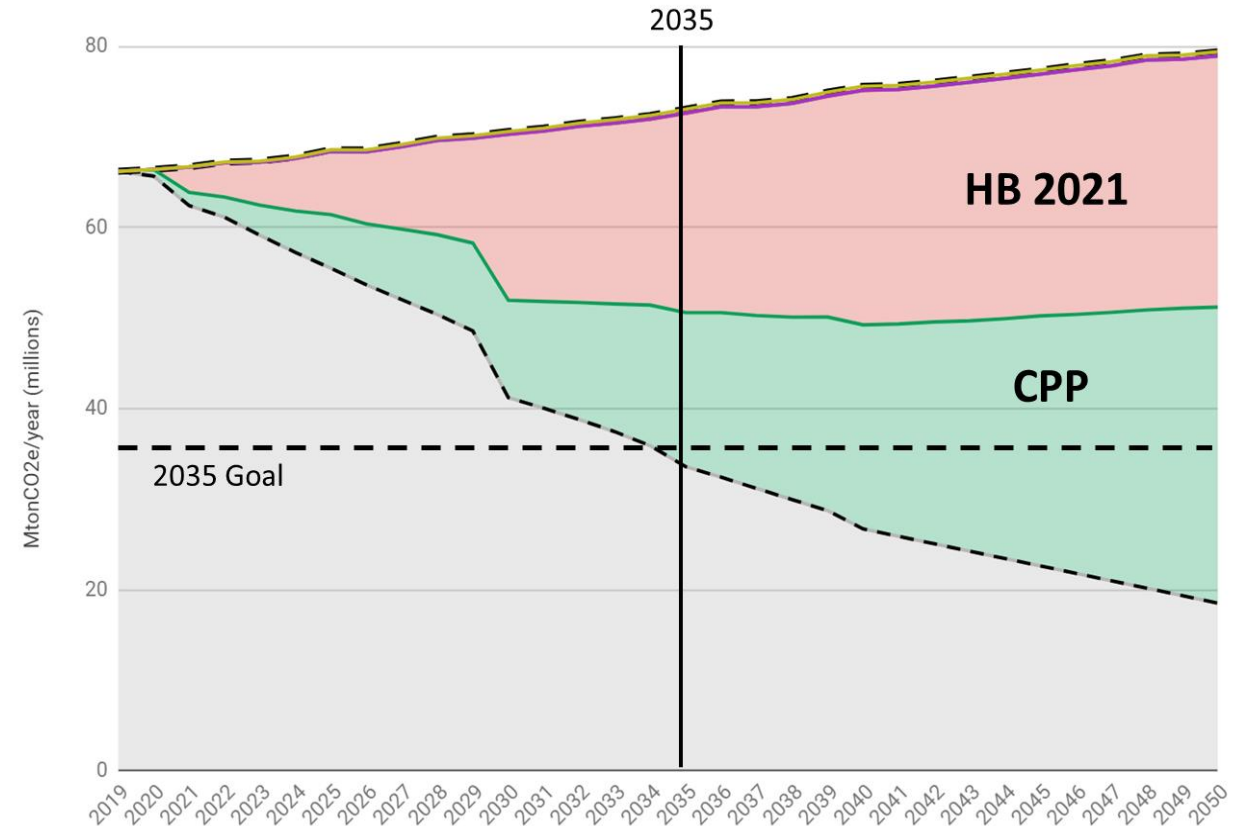
- Achieve at least a 95 percent reduction in sector-based emissions below 1990 levels.
- Achieve net zero total emissions by 2050, and net negative emissions thereafter.
- Adopt an interim goal of a 45 percent reduction in sector-based emissions by 2030, and a 70 percent reduction by 2040.
- Adopt a new goal focused on Oregon's consumption-based emissions consistent with the new sector-based goal.
- Adopt a Natural and Working Lands goal.

# EXISTING PROGRAMS

## 2. Support robust and continuous implementation of Oregon's existing climate programs and regulations.

- The Roadmap to 2030 found that with continued implementation of existing programs and policies as planned, Oregon is on track to meet the 2035 emissions reduction goal of at least 45 percent below 1990 levels by 2035, per Executive Order 20-04.
- This is only feasible with sustained funding and agency capacity to deliver on programs.

Big Level Programs and Regulations



# EXISTING PROGRAMS (CONT.)

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- Sustain funding for the following high-demand incentive and investment programs:
  - ODOE'S Community Renewable Energy Grant Program; Solar + Storage Program; and Heat Pump Programs
  - DHS's Community Resilience Hubs and Network Grant Program
  - DEQ's Electric Vehicle Rebate/Charge Ahead Programs, and Medium and Heavy-Duty Vehicle Rebates and Infrastructure Grants
  - OHA's Healthy Homes Program
  - DLCD's grants to local governments for Climate Friendly and Equitable Communities planning
  - Natural and Working Lands Fund
  - Oregon Agricultural Heritage Program



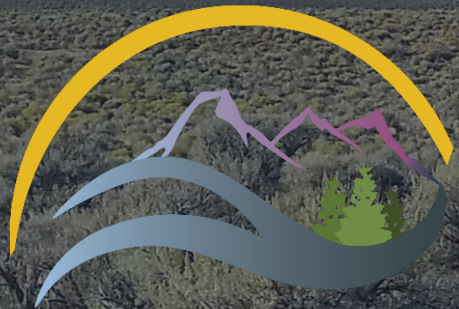
# NEW PROGRAMS

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3. Advance a set of additional climate actions to help Oregon meet an accelerated greenhouse gas reduction goal of 45 percent below 1990 levels by 2030.

- Transportation
- Built Environment
- Food Waste





**Oregon Climate  
Action Commission**

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