



# Oregon

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## AGENDA

### Energy Advisory Work Group

DATE: July 14, 2022

TIME: 3:00-5:00pm

Oregon Department of Energy – via WebEx

Link: <https://odoe.webex.com/odoe/j.php?MTID=m862c51b4bdef910b29ec0beac977023c>

Password: Energy

Call-in number: 1-408-418-9388 Access Code: 2333 637 2880

Time	Topic	Lead
3:00pm	Director's Welcome	Janine Benner
3:05pm	EAWG Updates from June 28 Meeting	EAWG Members
3:20pm	2022 Biennial Energy Report	Jessica Reichers Erica Herzsich
3:50pm	Preparing Fuel Sectors for Wildfire Season	Max Woods
4:00pm	Strategic Plan Update	Ruchi Sadhir
4:30pm	Follow up on ODOE Budget	Janine Benner
4:45pm	Closing Comments/Q&A	EAWG Members & ODOE Staff

# 2022 Biennial Energy Report

## Draft Table of Contents

The Oregon Department of Energy is in the drafting phase for the [2022 Biennial Energy Report](#), finalizing pieces on foundational topics and developing more in-depth content. A draft table of contents showcasing the report topics is provided below. Topics were developed in consultation with stakeholders through individual meetings, an online survey, and over the course of ODOE's normal work with stakeholders during the last two years. While the topics listed are firm, there is the potential that these may change based on agency resources and priorities over the next few months.

### Draft Table of Contents

#### Executive Summary and Introductory Pieces

#### Energy by the Numbers

- Energy Overview
- Energy Use in Oregon
- Energy Production in Oregon
- Energy Costs, Economy, and Equity
- Energy Efficiency
- Energy End Use Sectors and Sector Profiles

#### Energy History Timeline

#### Energy Resource & Technology Reviews

- Electricity Generation
- Electricity Storage
- Hydrogen
- Transportation Fuels
- Clean & Efficient Vehicles
- Energy Efficient Building Energy Technologies

#### Energy 101s

- Utility Resource Planning and Acquisition
- Public Utility Regulatory Policies Act (PURPA)
- Long Duration Electricity Storage
- Backup Power
- Oregon Fuel Action Plan
- Radioactive Waste Management
- Clean Energy Opportunities in Agriculture
- Overview of State Climate Programs and Actions
- Infrastructure Investments & Jobs Act (IIJA) Energy Funding

#### Policy Briefs

- Accelerating the Energy Transition: Identifying Pathways to Achieve Oregon's Clean Energy and Climate Goals
- What Drives Energy Costs for Consumers?
- Local Energy Perspectives: Workforce and Supply Chain Challenges



- Oregon Clean Energy Opportunity Campaign: A Case Study in Equitable Engagement
- Beyond Energy Savings: Co-benefits of Energy Efficiency
- Expanding Energy Efficiency in Existing Buildings
- Integrating Resilience Across Energy Sectors

Conclusion, Recommendations, and Other Closing Pieces.

## Next Steps

Topics in the report are being finalized, including external review from sister agency experts. It is anticipated that all topics will be finalized by the end of July 2022. The agency will be working on the final production of the report through the end of summer, including production elements, online resources, and development of report recommendations. The report will be submitted to the Legislature and available to the public by November 1, 2022.

## Project Timeline

**January –March 2022:** Public Survey and Stakeholder Input Sessions

**January–April 2022:** Updating Energy by the Numbers and Technology & Resource Reviews sections from the 2020 Report with current data

**February–July 2022:** Updating and expansion of timeline for Oregon Energy History

**April–June 2022:** Drafting for remaining sections of the Report – Energy 101 and Policy Briefs.

**July–August 2022:** Draft Peer Reviews and Report Recommendations Development

**August–September 2022:** Final reviews and revisions

**September –November 2022:** Formatting and Publication



# 2022 Biennial Energy Report

## Studies Used for Energy Transition Policy Brief

The Oregon Department of Energy is developing a policy brief series for the [2022 Biennial Energy Report](#) that identifies pathways to achieve Oregon’s clean energy and climate goals. While Oregon has adopted aggressive clean energy and climate change goals, there are myriad pathways to achieving those policies. Staff at the Department reviewed recent technical studies and modeling efforts to assess the range of solutions available to decarbonize the transportation, natural gas, and electric sectors. In the policy brief series, ODOE also considers the economic, environmental, and social trade-offs associated with different pathways.

Because there are a multitude of studies published in recent years that modeled the decarbonization of the energy sector, ODOE focused its review and prioritized studies based on their relevance to Oregon’s decarbonization goals. For this policy brief, staff reviewed studies from Oregon that have been published within the last several years and that model some variation of aggressive decarbonization policy goals by mid-century. In addition, staff reviewed other technical analyses from the Pacific Northwest and a few select studies from outside the region that evaluate similar policies.

### Accelerating the Energy Transition: Identifying Pathways to Achieve Oregon’s Clean Energy and Climate Goals

#### Oregon Studies: Statewide and Local

[Oregon Energy Policy Simulator Insights: Recent Development, Policies to Meet Emissions Goals](#)  
Energy Innovation | March 2022

[Electrification Impact Analysis: Phase 2](#)  
Eugene Water & Electric Board | November 2021

[Vision 2050: Destination Zero – NW Natural Carbon Neutrality Scenario Analysis](#)  
NW Natural | November 2021

[Oregon Clean Energy Pathways Analysis](#)  
Evolved Energy Research, GridLab, and the Clean Energy Transition Institute | July 2021

[Electrification Impact Analysis: Phase 1](#)  
Eugene Water & Electric Board | October 2020

[Exploring Pathways to Deep Decarbonization for the Portland General Electric Service Territory](#)  
Evolved Energy Research | April 2018

#### Other Pacific Northwest Studies

[Seattle City Light Electrification Assessment](#)  
Electric Power Research Institute (EPRI) | January 2022

[Affordable and Reliable Decarbonization Pathways for Montana](#)  
Vibrant Clean Energy and Grid Lab | February 2021

[Washington 2021 State Energy Strategy: Transitioning to an Equitable Clean Energy Future](#)  
Evolved Energy Research | December 2020



[Pacific Northwest Zero-Emitting Resources Study](#)

Energy and Environmental Economics (E3) | January 2020

[Meeting the Challenge of Our Time: Pathways to a Clean Energy Future for the Northwest – An Economy-wide Deep Decarbonization Pathways Study](#)

Clean Energy Transition Institute | June 2019

[Pacific Northwest Pathways to 2050: Achieving an 80% reduction in economy-wide GHGs by 2050](#)

Evolved Energy Research | November 2018

**National and Other State and Local Studies**

[The Role of Clean Fuels and Gas Infrastructure in Achieving California’s Net Zero Climate Goal](#)

SoCalGas | October 2021

[The Role of Electricity in Decarbonizing California’s Energy System](#)

Energy and Environmental Economics (E3) | September 2021

[Getting to Net Zero – Pathways Toward Carbon Neutrality: A Review of Recent Mid-Century Deep Decarbonization Studies for the United States](#)

Energy and Environmental Economics (E3) | July 2021

[LA100: The Los Angeles 100% Renewable Energy Study](#)

National Renewable Energy Laboratory (NREL) | March 2021

[Unlocking Deep Decarbonization: An Innovation Impact Assessment](#)

Evolved Energy Research | March 2021

[Princeton Net-Zero America Project](#)

Evolved Energy Research | June 2020

[The Challenge of Retail Gas in California’s Low-Carbon Future: Technology options, Customer Costs, and Public Health Benefits of Reducing Natural Gas Use](#)

Energy and Environmental Economics (E3) | April 2020

[Analysis of Selective 2010-2018 Economy-Wide Decarbonization Studies](#)

Clean Energy Transition Institute | April 2018



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June 2022

# 2022 Biennial Energy Report

## Energy Workforce and Supply Chain Issues

The Oregon Department of Energy has heard that many in the energy industry are experiencing new or increased workforce and supply chain challenges in the wake of the COVID-19 pandemic.

ODOE is planning to highlight stakeholder workforce and supply chain challenges and opportunities in our [2022 Biennial Energy Report](#), due later this year. So far, we have heard from stakeholders about this topic during our January 2022 [Energy Advisory Work Group meeting](#) and during a stakeholder roundtable held on March 16 (See [meeting summary and other materials on our website](#)).

Please let us know if your organization has data or examples of challenges and/or opportunities that you would like to share. We may not be able to include every example in our report, but your individual stories and concerns are important to help us convey a full and accurate picture of workforce and supply chain issues facing the Oregon energy sector. We know that this can be a sensitive topic with some stakeholders and are willing to share information without attribution if there are concerns.

### Options for sharing information with ODOE:

- Use this [LINK](#) for an online form to respond to questions,
- Email [AskEnergy@energy.oregon.gov](mailto:AskEnergy@energy.oregon.gov) with your answers to the questions below, or
- Email [Linda Ross](#) to schedule some time to talk through your experiences with an ODOE staff member.

### Our Questions:

- Your Name and Organization
- Your Email and Phone Number
- What are your organization's workforce development and/or retention challenges? What energy workforce opportunities do you see? Do you have any specific data or information that you could share that would help illustrate these challenges and/or opportunities?
- What has your organization done to address your workforce-related challenges? Are you aware of workforce development efforts that are working well that we could highlight for readers of the Biennial Energy Report?
- Is your organization experiencing challenges related to supply chain disruptions, either starting before the COVID-19 pandemic or tied to the pandemic? How are these supply chain disruptions affecting your operations? Please indicate if you consider this sensitive information and would like us to share it anonymously or without attribution.
- We are aware of a few Oregon-specific studies on workforce needs, such as the [Transportation Electrification Workforce Study \(Executive Summary\)](#), the [Metro Construction Career Pathways study \(link to download study\)](#) and University of Oregon Report "[Constructing a Diverse Workforce: Examining Union and Non-Union Construction Apprenticeship Programs and their Outcomes for Women and Workers of Color](#)." Are there other recent Oregon-specific studies or analyses that you are aware of? Do you have workforce or supply chain related questions to recommend for future study to help fill in gaps in this important topic?

