# 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](https://odoe.webex.com/odoe/j.php?MTID=m862c51b4bdef910b29ec0beac977023c)  
Password: Energy  
Call-in number: 1-408-418-9388  
Access Code: 2333 637 2880

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


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

August–September 2022: Final reviews and revisions

September –November 2022: Formatting and Publication
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
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](mailto:LindaRoss) 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?