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Energy Advisory Work Group

July 14, 2022

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3:00 p.m.	Director's Welcome	Janine Benner
3:05 p.m.	EAWG – Any Updates Since June 28 Meeting?	EAWG Members
3:20 p.m.	2022 Biennial Energy Report	Jessica Reichers Erica Hertzsch
3:50 p.m.	Preparing Fuels Sector for Wildfire Season	Max Woods
4:00 p.m.	Strategic Plan Update	Ruchi Sadhir
4:30 p.m.	Follow up on ODOE Budget	Janine Benner
4:45 p.m.	Closing Comments/Q&A	EAWG Members and ODOE Staff

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2022 Biennial Energy

Jessica Reichers

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BIENNIAL ENERGY REPORT TIMELINE

- January March 2022: Public Survey and Stakeholder Input Sessions
- January July 2022: Updating Energy By The Numbers and Technology and Resource Reviews sections from the 2020 Report with current data
- February July 2022: Updating and expansion of timeline for Oregon Energy History

- April July 2022: Drafting for remaining sections of the Report – Energy 101 and Policy Briefs. Will include ongoing stakeholder feedback and input.
- July August 2022: Peer Review and Fact Check
- August September 2022: Final reviews and revisions
- September November 2022: Formatting and Publication



DRAFT TABLE OF CONTENTS

Executive Summary & 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





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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 Opportunities & 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 Closing Materials



STUDIES & REPORTS INFORMING THE CLEAN ENERGY POLICY BRIEF

Accelerating Our Energy Transition: Identifying Pathways to Achieve Oregon's Clean Energy and Climate Goals

OREGON STUDIES: STATEWIDE AND LOCAL

<u>Electrification Impact Analysis: Phase 1</u> Eugene Water & Electric Board | October 2020

<u>Electrification Impact Analysis: Phase 2</u> Eugene Water & Electric Board | November 2021

Exploring Pathways to Deep Decarbonization for the Portland General Electric Service Territory Evolved Energy Research | April 2018

<u>Oregon Clean Energy Pathways Analysis</u> Evolved Energy Research, GridLab, and the Clean Energy Transition Institute | July 2021

<u>Oregon Energy Policy Simulator Insights: Recent Development, Policies to Meet Emissions Goals</u> Energy Innovation | March 2022

<u>Vision 2050: Destination Zero – NW Natural Carbon Neutrality Scenario Analysis</u> NW Natural | November 2021

<u>Destination Zero – NW Natural Carbon Neutrality Scenario Analysis</u> NW Natural

REGIONAL

Affordable and Reliable Decarbonization Pathways for Montana Vibrant Clean Energy and Grid Lab | February 2021

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

<u>Pacific Northwest Zero-Emitting Resources Study</u> Energy and Environmental Economics (E3) | January 2020

Pacific Northwest Pathways to 2050: Achieving an 80% reduction in economy-wide GHGs by 2050 Evolved Energy Research | November 2018

<u>Seattle City Light Electrification Assessment</u> Electric Power Research Institute (EPRI) | January 2022

Washington 2021 State Energy Strategy: Transitioning to an Equitable Clean Energy Future Evolved Energy Research | December 2020 NATIONAL AND OTHER STATE AND LOCAL STUDIES

<u>Analysis of Selective 2010-2018 Economy-Wide Decarbonization Studies</u> Clean Energy Transition Institute | April 2018

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

<u>Getting to Net Zero – Pathways Toward Carbon Neutrality: A Review of Recent Mid-Century</u> <u>Deep Decarbonization Studies for the United States</u> Energy and Environmental Economics (E3) | July 2021

<u>LA100: The Los Angeles 100% Renewable Energy Study</u> National Renewable Energy Laboratory (NREL) | March 2021

Princeton Net-Zero America Project Evolved Energy Research | June 2020

<u>The Role of Clean Fuels and Gas Infrastructure in Achieving California's Net Zero Climate Goal</u> SoCalGas | October 2021

The Role of Electricity in Decarbonizing California's Energy System Energy and Environmental Economics (E3) | September 2021

> If there are any major studies or reports missing from this list, please send them by July 18 to: <u>Adam.Schultz@energy.oregon.gov</u>

SUPPLY CHAIN AND WORKFORCE OPPORTUNITIES & CHALLENGES BIENNIAL ENERGY REPORT FEATURE

Our Questions

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?

Are there recent Oregon-specific studies or analyses on workforce needs 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?

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?

Three Ways to Contribute by July 18

- 1. Email your responses to <u>AskEnergy@oregon.gov</u>
- 2. Fill Out this Online Form
- 3. Email <u>linda.ross@energy.oregon.gov</u> to request a time to talk through your answers with ODOE staff

Please include your name, organization, email, and phone number. Please also note if you would like your responses to remain unattributed.

OREGON ENERGY HISTORY INTERACTIVE TIMELINE DEMONSTRATION AND DISCUSSION





Preparing the Fuels Sector for Wildfire Season

Maxwell Woods



2021-2024 Strategic Plan Objective Progress Update Ruchi Sadhir | Kaci Radcliffe

Imperatives	Objectives	Initiatives
Expand and Improve Stakeholder Engagement	 Increase diversity of agency stakeholder groups, rulemaking, oversight, and advisory boards Year-over-year increase in agency engagement with organizations representing historically and currently underserved populations and communities Year-over-year increase in the external use of agency produced reports, studies, and presentations 	 Conduct assessment of current agency boards and decision-making bodies to identify opportunities for more diverse representation Develop a communication plan and engagement process collaboratively with historically and currently underserved populations and communities that includes actively listening, being responsive, and incorporating feedback in the development of programs, policies, and other areas of work Build on existing tribal engagement efforts by expanding internal responsibilities and resources, and reaching out to tribes to assess and amplify shared interests and priorities Work with external entities to assess their needs and priorities to strengthen relationships and better inform Oregon's energy policies and programs Strengthen staff capacity within ODOE to serve as liaisons and ambassadors with communities, stakeholder groups, and Tribes.
Build Practices and Processes to Achieve More Inclusive and Equitable Outcomes	 Year-over-year increase in the percent of agency job applicants identifying as Black, Indigenous, and People of Color. Year-over-year increase in the percent of historically and currently underserved populations and communities participating in ODOE programs and services Increase agency Diversity, Equity, and Inclusion awareness and fluency 	 Enhance ODOE's internship program to provide benefits to interns, such as paid positions and greater access to educational credits, to help build a more diverse network of ODOE and energy industry employees Develop a Diversity, Equity, and Inclusion Action Plan in partnership with historically and currently underserved populations and communities Create inclusive, multi-lingual communications to increase accessibility of agency program information and services Conduct agency-wide DEI assessment and training to measure and increase employee knowledge, awareness, and skills
Assess and Enhance Organizational Data Capabilities	 100% of specified agency products (e.g., produced reports, studies, and analyses) use standardized agency data methodologies or tools Year-over-year increase of collection, review, and analysis of data Year-over-year increase in data sharing relationships 	 Establish and internally communicate agency data standards and tools Assess and enhance agency data management roles, responsibilities, and internal structures Enhance staff data analysis and visualization skills to bring more interactive, value-add products (e.g. external data dashboards) to stakeholders Audit agency datasets to identify gaps and ensure they support implementation of state programs and priorities Collect and analyze demographic data to better inform ODOE's work and to identify barriers to achieving equitable energy outcomes Identify, catalog, and conduct outreach with data-holders across the state and among stakeholders
Assess and Modernize Agency Programs and Activities	 100% of ODOE programs and activities align with ODOE mission and position statements Complete assessment of ODOE work in the context of the state's energy ecosystem to identify redundancies and gaps 	 Conduct a strategic evaluation of each program and activity. Share the outcomes of the strategic evaluation and describe the alignment of programs and activities with ODOE's mission and position statements. Where necessary, identify actions to achieve better alignment. Collaborate with energy stakeholders to identify Key Energy Indicators and state priorities and objectives (including statutory targets and goals, executive orders, non-energy goals like job creation, other executive guidance like the Equity Framework) Create dashboard(s) to monitor and report on status of Key Energy Indicators Build on collaborative effort to assess how other agencies and organizations in the state are working toward Key Energy Indicators and state priorities, and identify areas where ODOE's work may overlap with other entities or where there might be gaps in state efforts.
Optimize Organizational Efficiency and Impact	 Increase average Gallup Q12 engagement score to at least 4.0 (out of 5.0) Increase "Efficient and effective processes & procedures" (Whole Systems Model) survey score to at least 3.5 Increase in Key Performance Measure customer satisfaction score to at least 95% 	 Update and improve employee development and recognition plans and programs Create internal action teams to identify and implement cross-functional process improvements Evaluate and improve agency collaboration and communication culture Update ODOE's KPM customer satisfaction survey and implement timelier customer service evaluations

IMPERATIVE

what must be accomplished over the planning horizon?

OBJECTIVES

how will we measure success? With metric and measurement

INITIATIVES

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what actions do we need to take?

Expand and Improve Stakeholder Engagement

Year-over-year increase in agency engagement with organizations representing <u>historically</u> <u>and currently underserved</u> <u>populations and</u> <u>communities</u> Develop a communication plan and engagement process collaboratively with historically and currently underserved populations and communities that includes actively listening, being responsive, and incorporating feedback in the development of programs, policies, and other areas of work



Year-over-year increase in agency engagement with organizations representing historically and currently underserved populations and communities



ODOE Attended Events, Meetings, Presentations
2022 Q1: 109
2018-2022: 1,220







	Energy Efficiency	431
	Renewable Energy/Solar/Hydro/etc.	275
	Climate Change	233
	Transportation/Alternative Fuels/EVs	200
ent Topics	Diversity/Equity	176
	Resilience/Emergency Preparedness	137
	Energy Storage/Smart Grid/DERs	131
	Energy Planning/Utility IRPs/Regional	120
	Sustainability	107
	Legislative	97
	Energy Facility Siting	88
	Consumer Protection/low-income	81
	Environmental Impacts/Pollution	65
	Federal Issues	60
	Nuclear/Hanford	52
	Liquid Fuels/Petroleum/Oil	45
	Agency Reports/BER	43
	Natural Gas	33
N	Working Lands/Forests/Agriculture	28

Year-Over-Year Increase in the External Use of Agency Produced Reports, Studies, and Presentations

Annual (Cumulative) Social Media Followers





Media Mentions on the Rise

2021: 97 2022 (to date): 102



2021: 19

2022 (to date): 13





Year-Over-Year Increase in the External Use of Agency Produced Reports, Studies, and Presentations



Website Hits



ODOE Dashboard Hits

Popular pages other than home: Find Your Utility, Biennial Energy Report, Rebate Programs

Year-over-year increase in the percent of agency job applicants identifying as Black, Indigenous, and People of Color.

Percent of ODOE Job Applicants Identifying at Black, Indigenous, or Person of Color



Year-over-year increase in the percent of historically and currently underserved populations and communities participating in ODOE programs and services

Objective

Year-over-year increase of collection, review, and analysis of data



Oregon Solar + Storage Rebate Program

 Set-aside for Oregonians with low and moderate incomes



Energy Efficient Wildfire Rebuilding Incentive Program

 Higher incentive for Oregonians with low and moderate incomes



Community Renewable Energy Grant Program

 Set-aside and prioritization of Environmental Justice Communities



Rural & Agricultural Energy Audit Program

 Rural Small Businesses and Agricultural Producers



Heat Pump Programs

 Focus on renters and heat-vulnerable communities

FOLLOW UP ON ODOE POPs/BUDGET

- What types of analysis might be helpful to fund through the *Energy Research Fund* and what should the vetting process through EAWG look like?
- How could a *Navigator for Community Capacity Building* support the communities, Tribes, and local governments that you work with to leverage federal and state funding?
- What methods of equitable external engagement have you/your organizations used that could be a helpful focus for ODOE to reach rural communities, Tribes, Oregonians experiencing lower incomes, and other currently or historically underserved communities?



EAWG Charter Excerpt

If funds are available, the "Energy Research Fund" will be used to contract with an outside firm or firms for studies, research, and analysis services when necessary to supplement existing department resources. The department will seek review and recommendations from the EAWG on draft ideas for studies, research, and analysis based on the following criteria:

i. Does the idea for studies, research, or analysis address a research need or does it further existing or outdated studies, research, or analysis?

ii. Does the idea for studies, research, or analysis address a topic of strong relevance in Oregon or in the broader energy policy landscape?

iii. Is the idea for studies, research, or analysis likely to result in an impartial, data-driven contribution to the body of existing research on this topic?

ENERGY PLANNING & INNOVATION PROPOSED POLICY OPTION PACKAGE

Energy Research Fund

- Agency-wide, with most work coming from P&I Division
- Establish a research fund to contract with outside firms for studies, research, and analysis to supplement existing agency resources
- Estimated cost: \$250,000 ESA



ADMINISTRATIVE SERVICES PROPOSED POLICY OPTION PACKAGE

Navigator for Community Capacity Building

- Director's Office
- POP and companion to proposed Legislative Concept would establish a program and a position that would help provide information about potential funding as well as technical assistance to rural, tribal, and other environmental justice communities as they develop energy projects and programs
- 1 FTE
- Estimated Cost: \$396,229 General Fund



ADMINISTRATIVE SERVICES PROPOSED POLICY OPTION PACKAGE

Equity & External Engagement

- Agency-wide
- POP would create a Public Advocate position at the agency, focused on meeting requirements of HB 4077 and allow ODOE to more effectively engage environmental justice communities in our work
- 1 FTE
- Estimated Cost: \$406,080, including \$123,000 of ESA





Save the Date! 2023-25 Budget Public Meeting July 25, 2022 4 p.m.

www.oregon.gov/energy/About-Us/Pages/Budget.aspx

