



OREGON
DEPARTMENT OF
ENERGY

Energy Advisory Work Group

December 19, 2024

USING WEBEX



In Participant Second Raise Hand Option next to your name – click hand icon

You can chat to everyone or select Direct to send a chat to the Host or a specific attendee

Chat or Participant window will show here if you choose to not pop them out to a new window


Open Chat Window
Click  to pop out into a new window if needed


Audio Options

 Mute Microphone On

 Unmute Microphone Off

Video Options

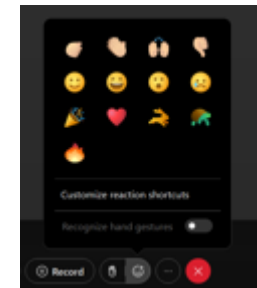
 Stop video Webcam On


 Start video Webcam Off

Raise Your Hand Option 1

- Click to Raise your hand.
- Click again to lower hand.

Reactions



Open Participant Window to view attendees
Click  to pop out into a new window if needed

AGENDA

2 p.m.	Director's Welcome and Update	Janine Benner, ODOE Director
2:10 p.m.	EAWG Roundtable (2025 Legislative Preview)	EAWG Members
2:35 p.m.	2025 Legislative Session	Christy Splitt, Government Relations Coordinator
2:45 p.m.	ODOE 2021-2024 Strategic Plan Update	Janine Benner, ODOE Director Ruchi Sadhir, Associate Director for Strategic Engagement
3:25 p.m.	Oregon Energy Strategy Update	Edith Bayer, Energy Systems Senior Policy Analyst
3:35 p.m.	2024 Biennial Energy Report	Jessica Reichers, Energy and Technology Manager
3:50 p.m.	Q&A and Closing Comments	All

EAWG Roundtable



OREGON
DEPARTMENT OF
ENERGY



2025 Legislative Session

ODOE 2025 LEGISLATIVE CONCEPTS

Updates to Existing Programs

- Create a resilience-only pathway for the Community Renewable Energy Grant Program
- Create a storage-only pathway for the Oregon Solar + Storage Rebate Program
- Extend the Oregon Rental Home Heat Program and update the Community Heat Pump Deployment Program



ODOE 2025 LEGISLATIVE CONCEPTS

Statutory Fixes

- Allow the state to contract with national labs
- Get rid of out of date or duplicative reports
 - State Energy Efficient Design
 - Small-scale Local Energy Loan Program (SELP)
- Dedicated fund for federal Grid Resilience Program





OREGON
DEPARTMENT OF
ENERGY

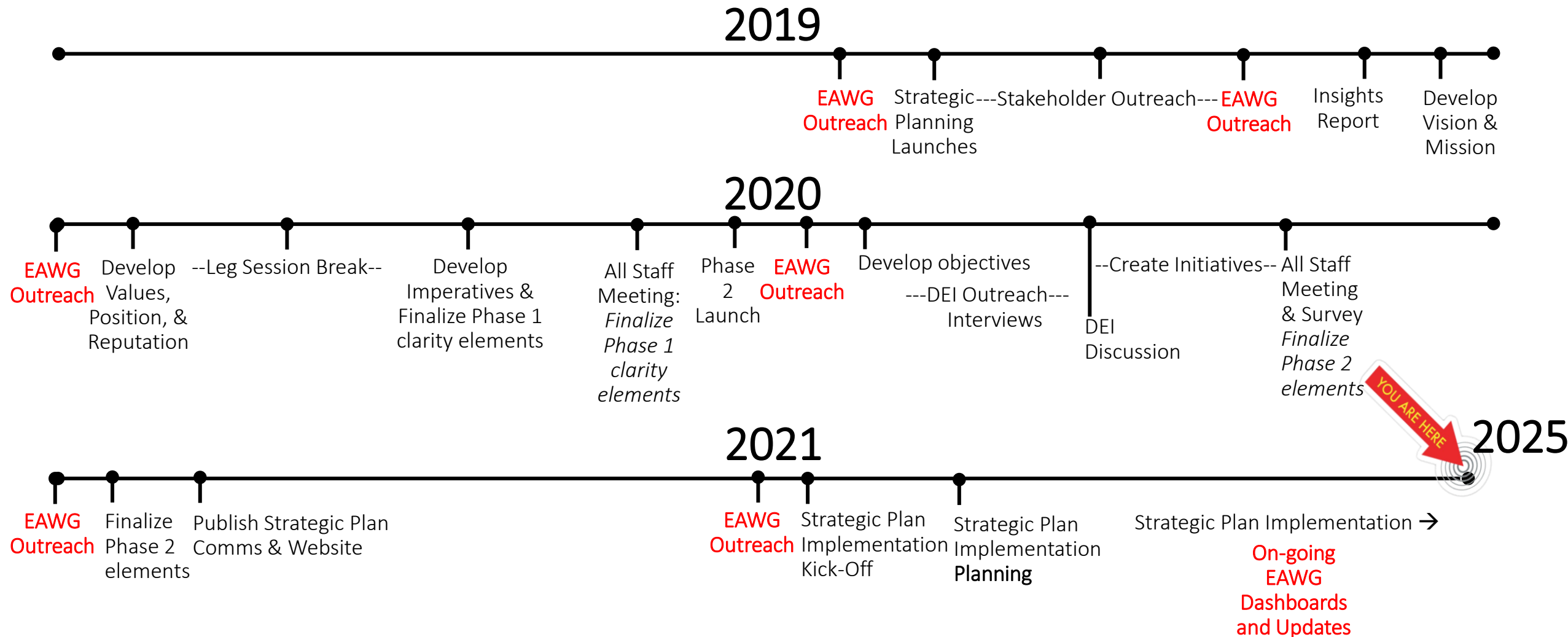
Strategic Plan Update

EAWG & STRATEGIC PLANNING

Excerpts from [EAWG Charter](#):

- **Section 2:** "To further the public interest, the Department has been working to increase transparency of its programs and activities and to foster close communication and collaboration with energy users and other stakeholders with an interest in the provision of energy. A broad purpose of the EAWG is to serve as a forum to further these objectives and to provide feedback on the strategic priorities and long-term vision for the Department."
- **Section 4(a):** "Strategic Priorities and Long-Term Vision: During the development of its strategic plan, the Department will provide EAWG members with an opportunity to review and provide recommendations on the plan's vision statement and strategic goals. In addition to seeking feedback on the development of the strategic plan, the Department will share information about progress of strategic plan actions to keep EAWG members informed of its implementation."

STRATEGIC PLANNING TIMELINE





Strategic Clarity (Phase 1)

- **Vision:** what is the idea future state we are trying to create?
- **Mission:** what is our purpose? What are we here to make happen?
- **Position:** what unique and sustainable value do we deliver, where do we deliver, and for whom?
- **Values:** what are the fundamental beliefs that shape how we work together and serve our mission?
- **Reputation:** what do we want to be known for? What is the enduring perception or emotion that describes the total experience of our organization?

Strategic Focus (Phase 2)

- **Strategic Imperatives:** what must be accomplished over the planning horizon?
- **Objectives:** how will we measure success?
- **Initiatives:** what collective actions do we need to take that are transformative in nature?
- **DEI Approach:** how are we incorporating DEI into our approach? Where and how?

Strategic Plan Elements

BLAST FROM THE PAST (5 years ago...)

Survey and Interview Themes (2019)

1. ODOE Struggles to Communicate its Mission and its Efficacy in an Unaligned and Self-interested Energy Eco-system
2. Key Energy Stakeholders Are Disconnected on the State's Energy Priorities
3. ODOE's ideal role is believed to be providing a "central point of truth" to Oregon's Energy Eco-system
4. Rate Payers Struggle to Find Value in ODOE and a Conflict of Interest May Exist
5. Stakeholders are skeptical or unaware of ODOE's programs and their efficacy
6. Oregon's energy community believes ODOE has a role to play in equity, but key players disagree
7. Incentive programs are considered somewhat efficacious, but past issues impede progress
8. ODOE & Key Stakeholders Are Caught In A Free Vs. Regulated Market Debate
9. Staff are well respected and believed to be capable of doing more, but structural constraints exist
10. Opportunities exist for ODOE to better engage its stakeholders and create a more inclusive and coordinated Oregon Energy Eco-System

PHASE 1: CLARITY ABOUT WHO WE ARE

Our Vision

A safe, equitable, clean, and sustainable future.

Our Values

- We listen and aspire to be inclusive and equitable in our work.
- We are ethical and conduct our work with integrity.
- We are accountable and fiscally responsible in our work and the decisions of our agency.
- We are innovative and focus on problem-solving to address the challenges and opportunities in Oregon's energy sector.
- We conduct our agency practices and processes in a transparent and fair way.

Our Mission

The Oregon Department of Energy helps Oregonians make informed decisions and maintain a resilient and affordable energy system. We advance solutions to shape an equitable clean energy transition, protect the environment and public health, and responsibly balance energy needs and impacts for current and future generations.

What We Do

On behalf of Oregonians across the state, the Oregon Department of Energy achieves its mission by providing:

- A Central Repository of Energy Data, Information, and Analysis
- A Venue for Problem-Solving Oregon's Energy Challenges
- Energy Education and Technical Assistance
- Regulation and Oversight
- Energy Programs and Activities

PHASE 2: IMPERATIVES/FOCUS AREAS



Expand and Improve Stakeholder Engagement



Build Practices and Processes to Achieve More Inclusive and Equitable Outcomes



Assess and Enhance Organizational Data Capabilities



Assess and Modernize Agency Programs and Activities



Optimize Organizational Efficiency and Impact

Imperatives Objectives

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

Initiatives

- 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

IMPORTANT CONTEXT DURING IMPLEMENTATION

JANUARY 2021 – DECEMBER 2024

COVID-19 pandemic

- New processes with remote work

Prioritizing the establishment of new programs

- State-funded incentive programs
- Federally-funded incentive programs

Lean organizational structure

*Adopt
Adapt
Abandon*

Imperative 1: Expand and Improve Stakeholder Engagement

Objectives	Complete	Initiatives	Status
Increase diversity of agency stakeholder groups, rulemaking, oversight, and advisory boards	✓	Conduct assessment of current agency decision-making and advisory bodies to identify opportunities for more diverse representation	✓
Year-over-year increase in agency engagement with organizations representing historically and currently underserved populations and communities	✓	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	✓
Year-over-year increase in the external use of agency produced reports, studies, and presentations	✓	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	✓

 Complete
  Adapted
  In Progress

Imperative 2: Build Practices and Processes to Achieve More Inclusive and Equitable Outcomes

Objectives	Complete	Initiatives	Status
Year-over-year increase in the percent of agency job applicants identifying as Black, Indigenous, and People of Color.	✓	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	✓
Year-over-year increase in the percent of historically and currently underserved populations and communities participating in ODOE programs and services	✓	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	✓
Increase agency Diversity, Equity, and Inclusion awareness and fluency	✓	Conduct agency-wide DEI assessment and training to measure and increase employee knowledge, awareness, and skills	✓

✓ Complete
 ↻ Adapted
 ➔ In Progress

Imperative 3: Assess and Enhance Organizational Data Capabilities

Objectives	Complete	Initiatives	Status
100% of specified agency products (e.g., produced reports, studies, and analyses) use standardized agency data methodologies or tools	✓	Establish and internally communicate agency data standards and tools	🔄
		Assess and enhance agency data management roles, responsibilities, and internal structures	✓
Year-over-year increase of collection, review, and analysis of data	✓	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	✓
Year-over-year increase in data sharing relationships	✓	Identify, catalog, and conduct outreach with data-holders across the state and among stakeholders	🔄

 Complete
  Adapted
  In Progress

Imperative 4: Assess and Modernize Agency Programs and Activities

Objectives	Complete	Initiatives	Status
100% of ODOE programs and activities align with ODOE mission and position statements	✓	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.	➔
Complete assessment of ODOE work in the context of the state’s energy ecosystem to identify redundancies and gaps	-	Collaborate with energy stakeholders to identify Key Energy Indicators and state priorities and objectives	✓
		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 KEIs and state priorities, and identify areas where ODOE’s work may overlap with other entities or where there might be gaps in state efforts.	➔

 Complete
  Adapted
  In Progress

Imperative 5: Optimize Organizational Efficiency and Impact

Objectives	Complete	Initiatives	Status
Increase average Gallup Q12 engagement score to at least 4.0 (out of 5.0)	✓	Update and improve employee development and recognition plans and programs	✓
Increase “Efficient and effective processes & procedures” (Whole Systems Model) survey score to at least 3.5	-	Create internal action teams to identify and implement cross-functional process improvements	✓
		Evaluate and improve agency collaboration and communication culture	➔
Increase in Key Performance Measure customer satisfaction score to at least 95%	-	Update ODOE’s KPM customer satisfaction survey and implement timelier customer service evaluations	✓

 Complete
  Adapted
  In Progress

NEXT STEPS: NEW STRATEGIC PLANNING PROCESS IN 2025

We expect to start developing a new Strategic Plan in 2025

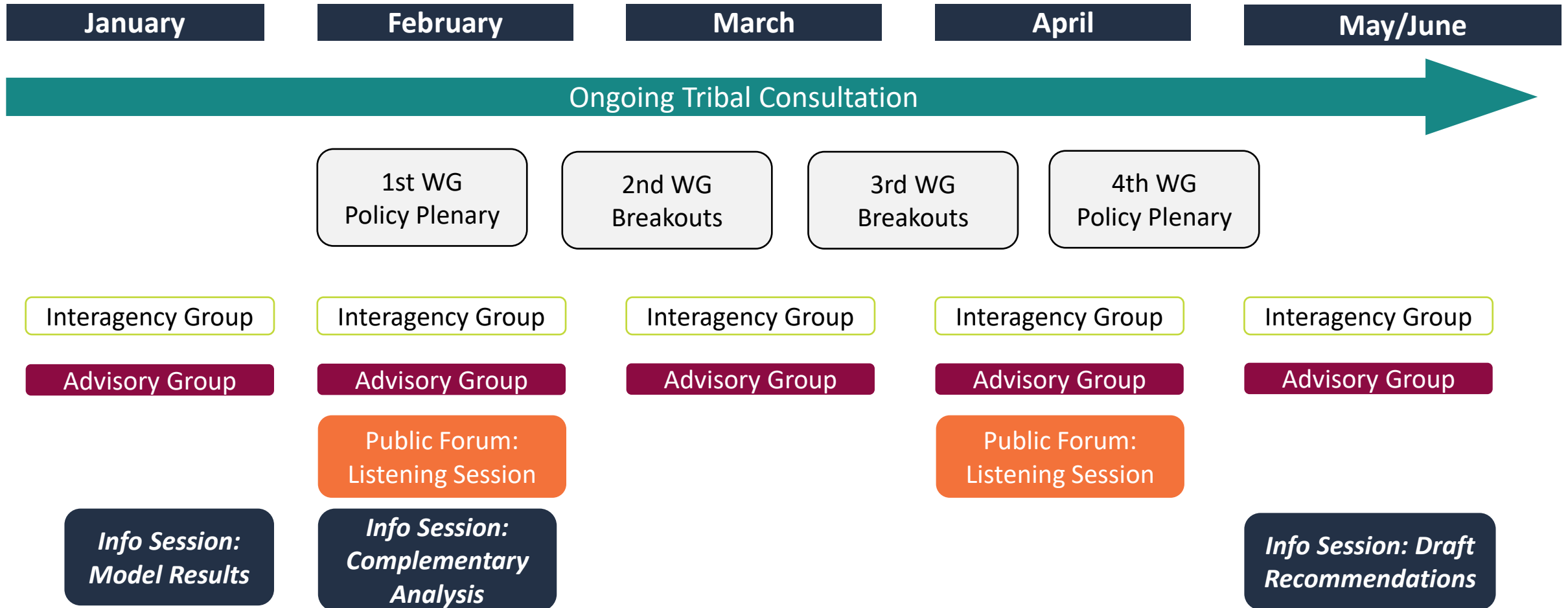
- What are your reflections as we wrap up our current Strategic Plan?
- What should we focus on or build on in development of the next Strategic Plan?
- How do EAWG Members want to be involved in development?

Oregon Energy Strategy



OREGON
DEPARTMENT OF
ENERGY

OREGON ENERGY STRATEGY TIMELINE FOR PHASE 2



CONSULTATIVE STRUCTURES

Tribal Consultation

- Government-to-Government, ensuring Tribal perspectives inform Energy Strategy
- Members of the 9 federally recognized Tribes in Oregon
- Ongoing

Advisory Group

- Advise ODOE throughout the process and help inform decisions
- Representatives of diverse perspectives and lived experience across OR
- Meets 1x a month

Working Groups

- Focused on informing policy recommendations
- Subject matter experts able to engage in identification of gaps and needs
- Meet over ~ 3 months in early 2025

Interagency Steering Group

- State Agency Coordination
- ODOE, DLCD, DSL, ODOT, PUC, DEQ, Business OR, Governor's office; other agencies
- Meets 1x a month

Public Forums

- Collecting broad views from across the state
- Anyone can and is encouraged to join

<https://www.oregon.gov/energy/Data-and-Reports/Pages/Energy-Strategy.aspx>

<https://odoe.powerappsportals.us/en-US/energy-strategy/>



OREGON
DEPARTMENT OF
ENERGY

2024 Biennial Energy Report

2024 BIENNIAL ENERGY REPORT

Goal of the Report

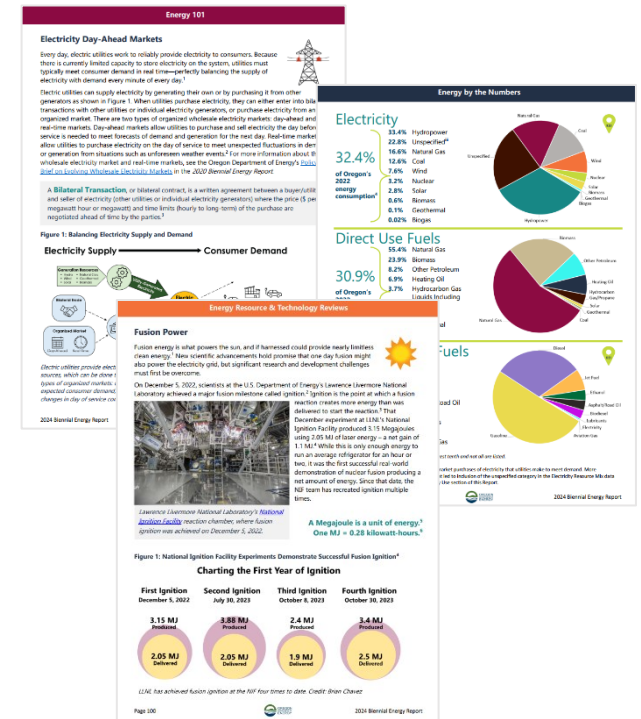
Pursuant to ORS 469.059, provide a comprehensive review of energy resources, policies, trends, and forecasts, and what they mean for Oregon.

Scoping the Report

Shaped by a data-driven process, equity considerations, and input from stakeholders and the public.

Designing the Report

Themes cross sections – energy 101s, resource and technology reviews, updates on state energy projects.



Energy by the Numbers

Oregon’s overall and sector-based energy use, energy production and generation, and energy expenditures.

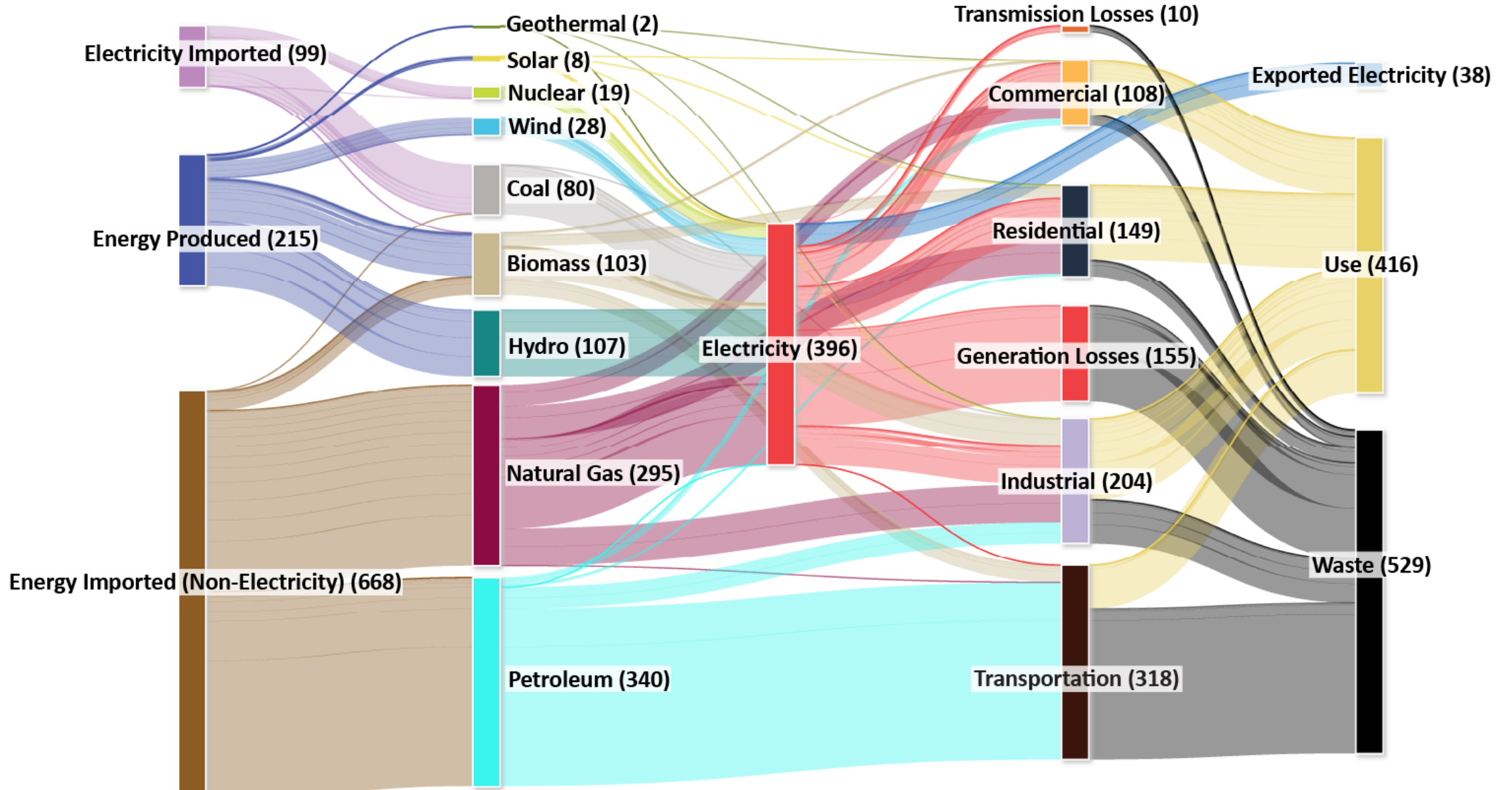
Data and metrics track how Oregon produces, purchases, and uses various types of energy.



TABLE OF CONTENTS

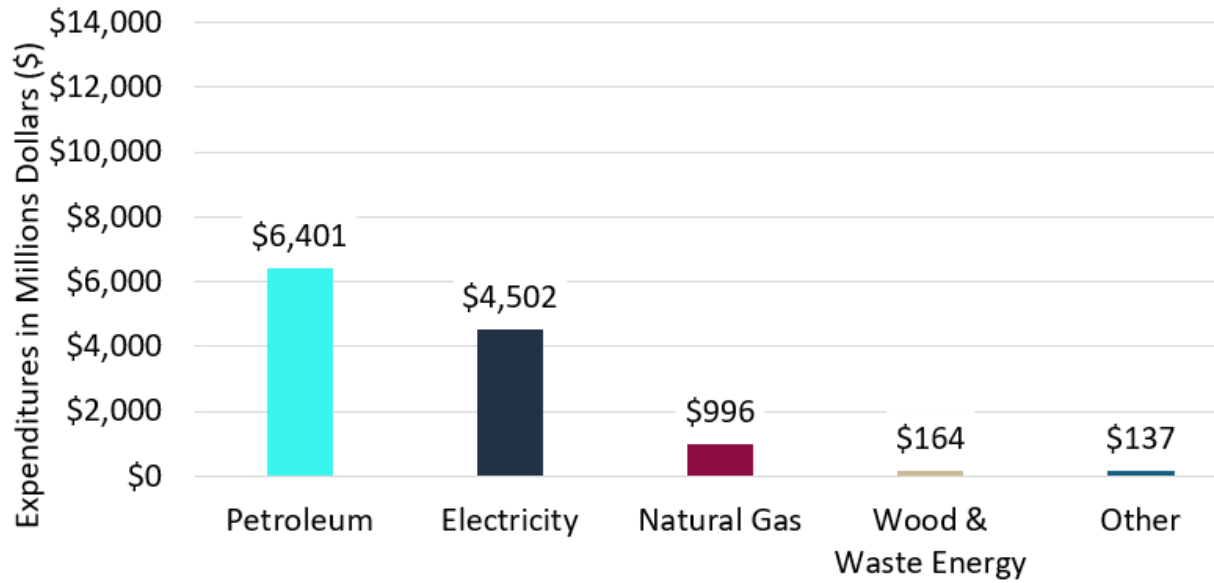
- 2** | Understanding Oregon’s Energy Story
- 5** | Energy Use in Oregon
- 11** | Electricity Use
- 19** | Direct Use Fuels
- 26** | Transportation Fuels
- 29** | Energy Production
- 39** | Energy Facility Siting in Oregon
- 42** | Energy Costs & Economy
- 56** | Energy Efficiency
- 60** | Energy End Use Sectors
- 70** | Sector Profiles

Oregon's Energy Flow

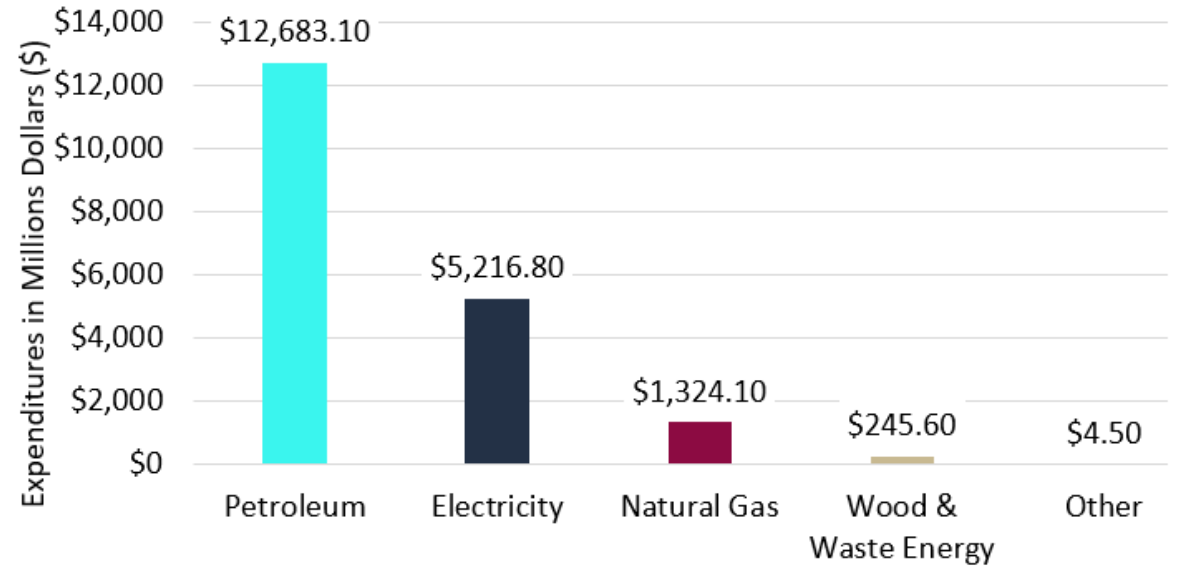


Numbers are in trillions of British thermal units (Btus)

2020 Oregon Energy Expenditures by Source



2022 Oregon Energy Expenditures by Source



Resource & Technology Reviews

The reviews in this section cover the spectrum of traditional to innovative – and demonstrate the breadth of technology that is integral to the production and management of our energy system.

TABLE OF CONTENTS

94	Enhanced Geothermal Electricity Generation
100	Fusion Power

Energy 101

This section is intended to help the reader understand the first part of the energy story: how energy is produced, used, and transformed.

TABLE OF CONTENTS

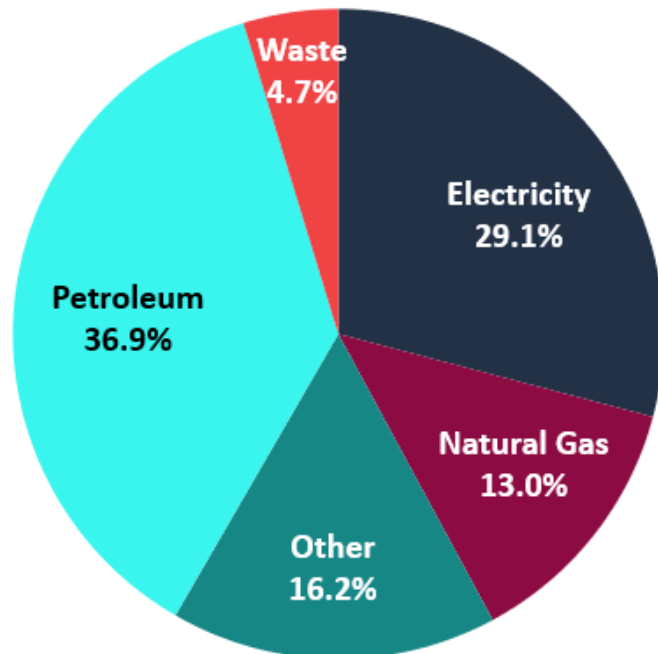
- 110** | Advancements in a Clean Hydrogen Economy
- 125** | Agrivoltaics in Oregon
- 141** | Climate Change Effects on the Energy System
- 162** | Electricity Rate Increase Drivers
- 179** | Peak Electricity Demand
- 187** | Electricity Day-Ahead Markets
- 202** | Energy Resilience
- 210** | Water and Energy Nexus
- 220** | Alternatives to New Transmission
- 237** | Oregon Home Energy Scoring
- 244** | Waste Energy

Climate Change Effects on the Energy System

Most of Oregon's greenhouse gas emissions come from the energy used every day, including electricity, direct use fuels, and transportation fuels. The energy sector plays a unique and important role in climate change – it can be a cause of climate change, can be affected by climate change, and can also be part of the solution.



Greenhouse Gas Emissions Share by Source (2021)



Climate change effects on energy:

- **Energy demand** as hotter and longer heat waves require additional cooling
- **Energy supply** as changes in precipitation type (from snow to rain) shift decades-long patterns that support hydropower
- **Electricity reliability** as extreme weather affects infrastructure

Energy actions to mitigate and adapt to climate change:

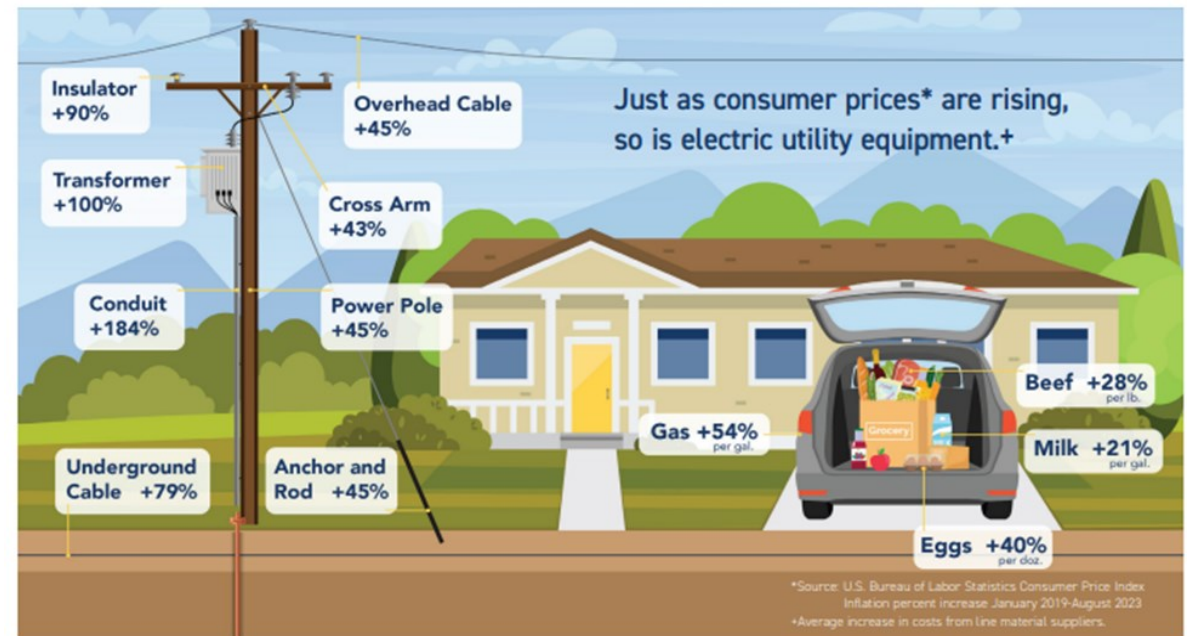
- **Efficiency and conservation measures** can help address increasing demand for energy
- The **transition to locally generated, low-carbon resources** like wind, solar, and alternative fuels reduce greenhouse gas emissions
- Distributed energy generation, renewable energy, microgrids, and energy storage can **improve the reliability** of energy on the grid

Electricity Rate Increase Drivers

For many Oregonians, electricity prices have increased in the past few years. This Energy 101 explains some major cost drivers for electricity in Oregon. While prices for other goods and services have increased in recent years as well, electricity is used by virtually every household and business in Oregon, making electricity prices a topic of statewide interest.

- Not every utility in Oregon has **raised rates** in recent years, but many have
- Three common **cost drivers**:
 - Rising power costs
 - Ongoing infrastructure needs, compounded with inflationary pressures
 - Costs to mitigate the increasing prevalence and risks of wildfires and extreme weather
- HB 2021 is not a direct driver of recent rate increases, but **may have future rate implications** for Portland General Electric, PacifiCorp, and electricity service suppliers

Inflationary and Supply Chain Cost Pressures (2019-2023)



Graphic from Central Electric Cooperative



State Energy Project Updates

This section provides updates on energy-related studies recently released or in development at ODOE.

TABLE OF CONTENTS

254	Oregon Energy Security Plan Update
257	Oregon Energy Strategy Update



Questions/Comments?

RESOURCES:

Report online: energyinfo.oregon.gov/ber

ODOE's website: www.oregon.gov/energy

Contact us/request a presentation:
odoe.powerappsportals.us/ber-comment/



OREGON
DEPARTMENT OF
ENERGY

Q&A

Closing Comments