



# Oregon

Tina Kotek, Governor



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[www.oregon.gov/energy](http://www.oregon.gov/energy)

## AGENDA

### Oregon Energy Strategy Listening Session, Meeting #1

July 31, 2024 / 10:00 am – 12:00 pm

Zoom Link for virtual participants: [Join the meeting now](#)

#### Objectives

- Establish a common understanding of the Oregon Energy Strategy. This includes (1) understanding the project as a whole, which will run from now until we publish the Energy Strategy by November 1, 2025; and (2) learning about modeling – the phase of the project we are in today – which will inform discussions on the costs, benefits, barriers, and challenges to meeting our state’s energy policy objectives.
- Learn about the types of questions that participants would like to see the Energy Strategy address, and how these relate to their interests, priorities, and expectations.

Time	Topic
10:00 - 10:10 am	<b>Welcome and Agenda Review</b>
10:10 – 10:30 am	<b>Presentation on the Oregon Energy Strategy</b> <ul style="list-style-type: none"> <li>• Introduction to the Oregon Energy Strategy</li> <li>• Introduction to the scenario modeling</li> </ul>
10:30 - 11:55 am	<b>Discussion and Public Input Opportunity</b> <ul style="list-style-type: none"> <li>• Q&amp;A and discussion on Oregon Energy Strategy focus areas including: <ul style="list-style-type: none"> <li>○ Electricity</li> <li>○ Direct use fuels</li> <li>○ Transportation</li> <li>○ Energy efficiency and demand side resources</li> </ul> </li> </ul>
11:55 - 12:00 pm	<b>Next Steps and Summary</b>
12:00 pm	<b>Adjourn</b>

# Oregon Department of **ENERGY**

## Listening Session Oregon Energy Strategy

Edith Bayer, Energy Policy Team  
Lead

July 31, 2024





# OREGON DEPARTMENT OF ENERGY

Leading Oregon to a safe, equitable, clean, and sustainable energy future.

## 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

# GOALS OF TODAY'S MEETING

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Establish a shared understanding of the Oregon Energy Strategy. This includes:

- Understanding the project as a whole, which will run from now until we publish the Energy Strategy by November 1, 2025; and
- Learning about modeling – the phase of the project we are in today – which will inform discussions on the costs, benefits, barriers, and challenges to meeting our state's energy policy objectives.

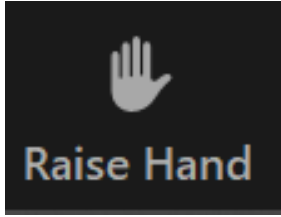
Listen and learn from participants to understand how they would like to see the Energy Strategy address their interests, priorities, and expectations.

# AGENDA

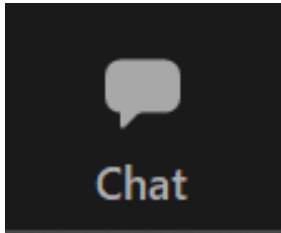
10:00 a.m.	Welcome	Alan Zelenka, Assistant Director, Oregon Department of Energy
10:05 a.m.	Introductions	Ben Duncan, Kearns & West
10:10 a.m.	Overview of the Oregon Energy Strategy	Edith Bayer, Oregon Department of Energy Eileen V. Quigley, Clean Energy Transition Institute
10:30 a.m.	Discussion and Public Input Opportunity	Michael Freels, ODOE Jessica Reichers, ODOE Jillian DiMedio, ODOE Edith Bayer, ODOE
11:55 a.m.	Next Steps and Summary	Edith Bayer, Oregon Department of Energy
12:00 p.m.	Adjourn	

# ZOOM MEETING TIPS

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If you have a question for the presenter or would like to add to the discussion, please use the raise hand function or the chat function (\*9 if you are joining by phone).



If you need any technical help, please use the chat function and the meeting host will assist you.

# GROUP AGREEMENTS

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- Listen carefully; seek to learn and understand each other's perspective.
- Encourage respectful, candid, and constructive conversation.
- Keep an open mind.
- Ask questions to clarify and understand why.
- Be open, transparent, inclusive, and accountable.
- Respect differing opinions.
- Seek to resolve differences and find common ground.
- Be conscious of speaking time; step back to allow space for others to contribute.



# ODOE PROJECT TEAM

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**Alan Zelenka** - Assistant Director for Planning and Innovation

**Jessica Reichers** - Manager, Policy & Innovation

**Edith Bayer** - Team Lead

Working Groups	
Direct Use Fuels & Industry	Michael Freels & Tom Elliott
Electricity Generating Technologies	Joni Sliger & Edith Bayer
Transportation	Jillian DiMedio & Evan Elias
Transmission & Distribution	Jason Sierman & Rob Delmar
Buildings	Blake Shelide, Stephanie Kruse & Mary Kopriva
Energy Efficiency & Load Flexibility	Andy Cameron & Edith Bayer
Equity and Environmental Justice	Lauren Rosenstein & Edith Bayer
Land Use & Natural Resources	Michael Freels & Ruchi Sadhir



# CLEAN ENERGY TRANSITION INSTITUTE TEAM

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## Project Management

- Overall Project Manager: Eileen V. Quigley, CETI
- Technical Project Manager: Ruby Moore-Bloom, CETI

## Technical Modeling

- Technical Project Lead: Jeremy Hargreaves, Evolved
- Technical Advisors: Elaine Hart, Moment Energy Insights; Amy Wagner, Evolved
- Technical Project Support: Ryan Jones and Gabe Kwok, Evolved
- Health Impacts Lead: Jamil Farbes, Evolved

## Equity Support

- Equity Advisor: Angela Long, Rockcross Consulting
- Equity Advisory & Data Analyst: Mariah Caballero, CETI

# KEARNS & WEST FACILITATION TEAM

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**Ben Duncan**

Facilitation Lead

**Gillian Garber-Yonts**

Process Support

**Maria Verano**

Notetaker

# Menti Poll: Introduction

## Listening Session Attendees:

- Open a browser window on your cell phone or computer.
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- Type in the code 7171 9268 .  
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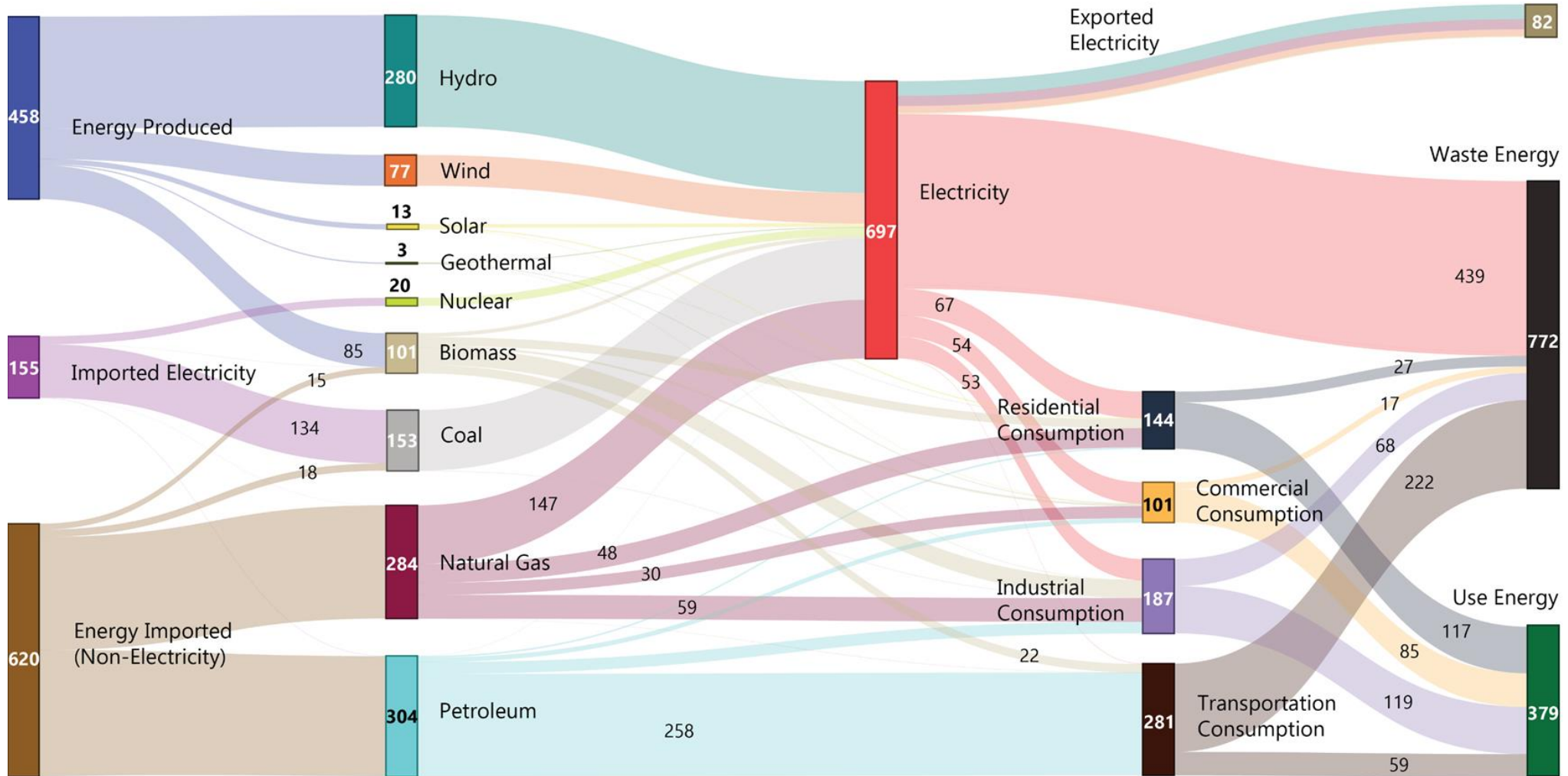
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# Introducing the Oregon Energy Strategy

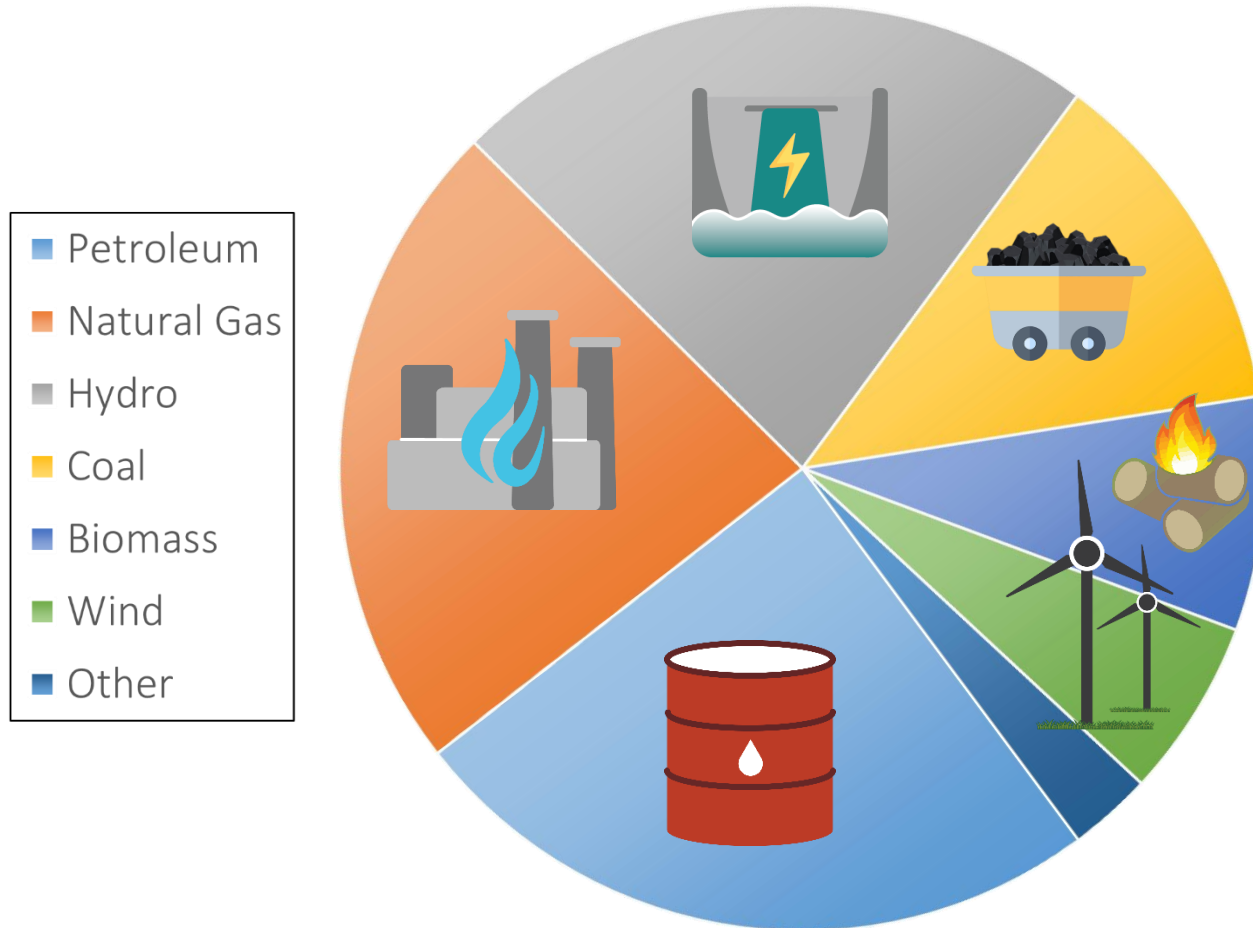
# OREGON'S ENERGY FLOW 2020



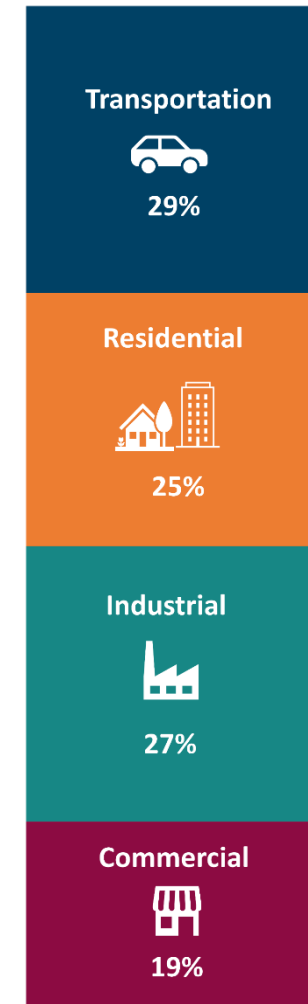
Numbers are in trillions of British thermal units (Btus)

# OREGON'S ENERGY LANDSCAPE

## ENERGY SOURCES

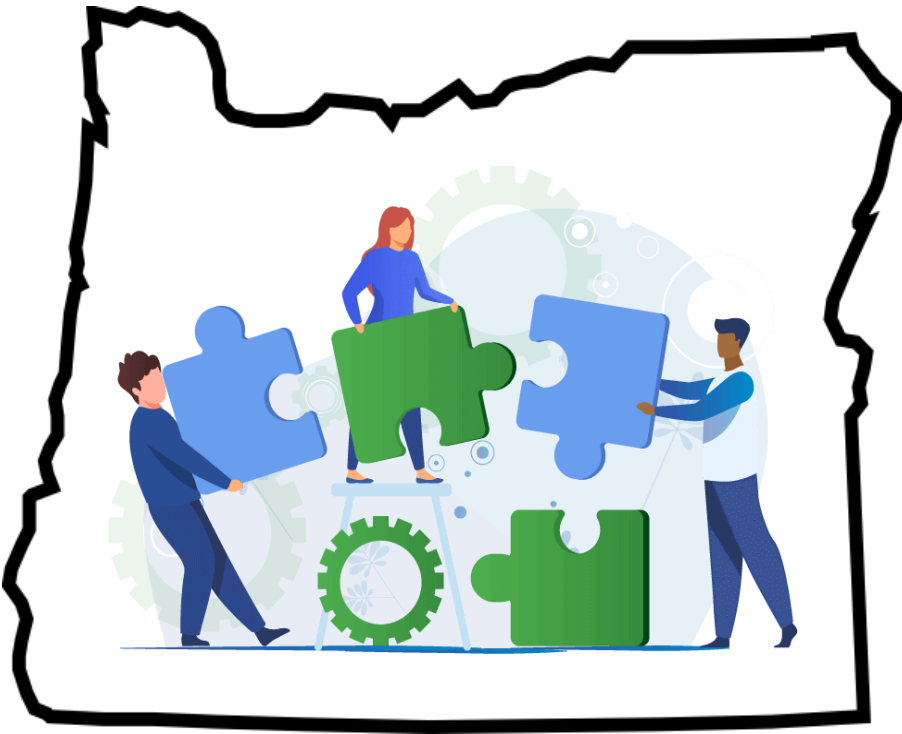


## END USE SECTORS



Charting a  
Course for  
Oregon's  
Energy Future

## Why does Oregon need an Energy Strategy?



- The costs of failing to achieve mid-century clean energy and climate policy goals fall inequitably across Oregonians
- Technical analysis shows us that there are multiple technology pathways to achieve mid-century policy goals
- Significant choices remain, and the tradeoffs of those choices must be carefully considered
- Can Oregonians work together to chart an intentional course for the state's energy future that balances these tradeoffs?

# HB 3630: COMPREHENSIVE STATE ENERGY STRATEGY

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ODOE directed to develop an energy strategy that identifies pathways to achieve Oregon's energy policy objectives and is informed by the following:

- Stakeholder perspectives
- Existing resource plans, energy-related studies, and analyses

The Oregon Energy Strategy must account for a variety of factors, such as:

- Costs, efficiencies, feasibility, and availability of energy resources and technologies
- Economic and employment impacts
- Energy burden, affordability, environmental justice, and community impacts and benefits
- Land use and natural resource impacts and considerations
- Energy resilience, security, and market implications





# ENERGY POLICY OBJECTIVES

## Economy-wide

- EO 20-04
- 80% GHG reduction by 2050

## Electricity (IOUs)

- HB 2021
- 100% clean by 2040

## Natural gas, liquid fuels, propane

- Climate Protection Program
- 90% GHG reduction by 2050

Policies driving and shaping compliance pathways:

Clean Fuels Program, Advanced Clean Cars II, Advanced Clean Trucks, Building Codes, Appliance Standards, and many more....

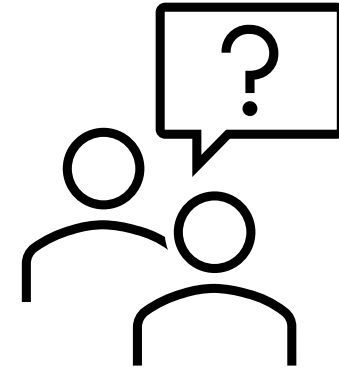
# TELL US WHAT YOU THINK

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Other states and entities in Oregon have been considering more ambitious climate goals.

- Washington has set a goal of 95% below 1990 levels by 2050.
- Oregon's Climate Action Commission has recommended a 95% reduction in greenhouse gas emissions for our state by 2050.
- The Federal Government has set a goal for a net-zero emissions economy by 2050.

The Oregon Energy Strategy could be a place to explore the implications of a more ambitious target.



# Menti Poll

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# ELEMENTS OF THE OREGON ENERGY STRATEGY

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1.

Summary of the Energy Strategy and pathways to achieve Oregon's policy objectives

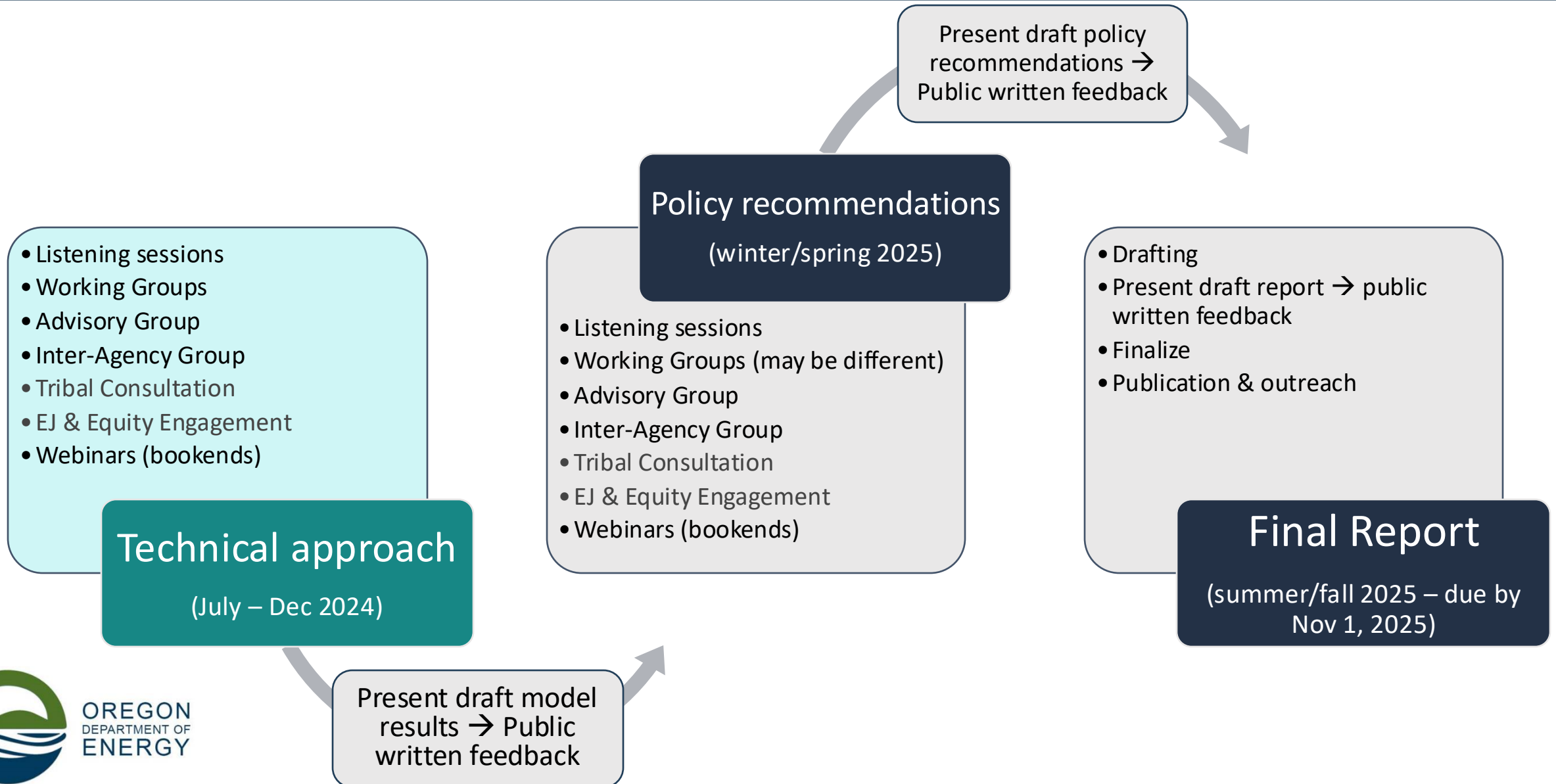
2.

Recommendations of policy options

3.

Description of stakeholder engagement and how stakeholder perspectives informed the strategy

# ENERGY STRATEGY PROCESS



# KEY DELIVERABLES

2024

2025

June 3 – Sep 9  
Engagement to  
inform  
modeling and  
technical  
analysis

Winter 2024/25  
preliminary  
modeling results  
published

Winter 2025 –  
Engagement to  
inform policy  
recommendati  
ons

Early summer 2025  
– draft report

Sep – Dec  
Modeling

Winter 2025 – final  
modeling results

Spring 2025 –  
draft policy  
recs

November 1  
2025 – final  
report

# Introduction to the scenario modeling

# WHAT IS THE PURPOSE OF ENERGY PATHWAYS MODELING?

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Serves to inform decision-making:

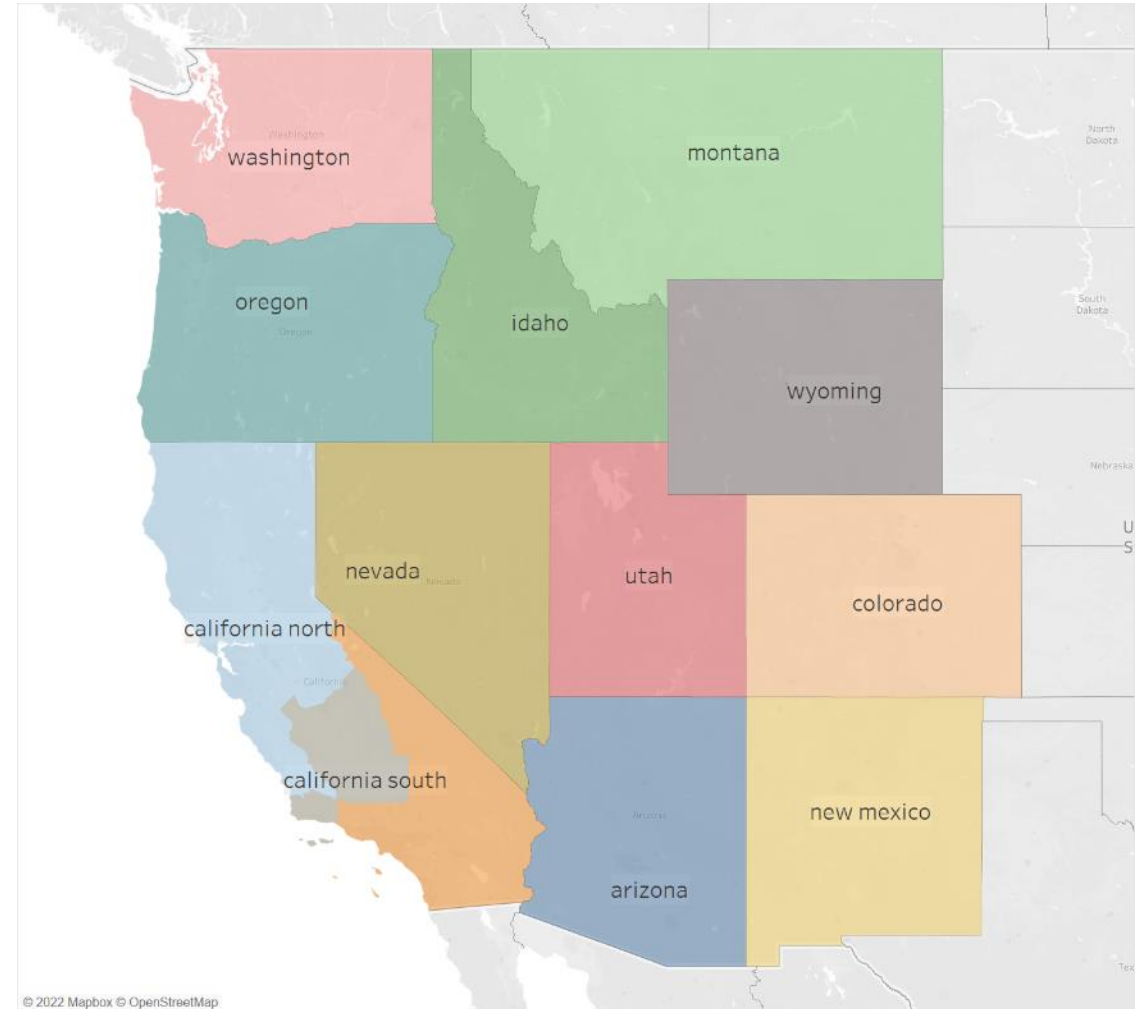
- Can illuminate the pros and cons of going one direction versus another
- Will uncover strategies that can help manage or mitigate uncertainty
- Not a prediction of the future but an investigation of choices
- Looking to 2050 can inform near-term actions needed, as well as policy gaps/opportunities



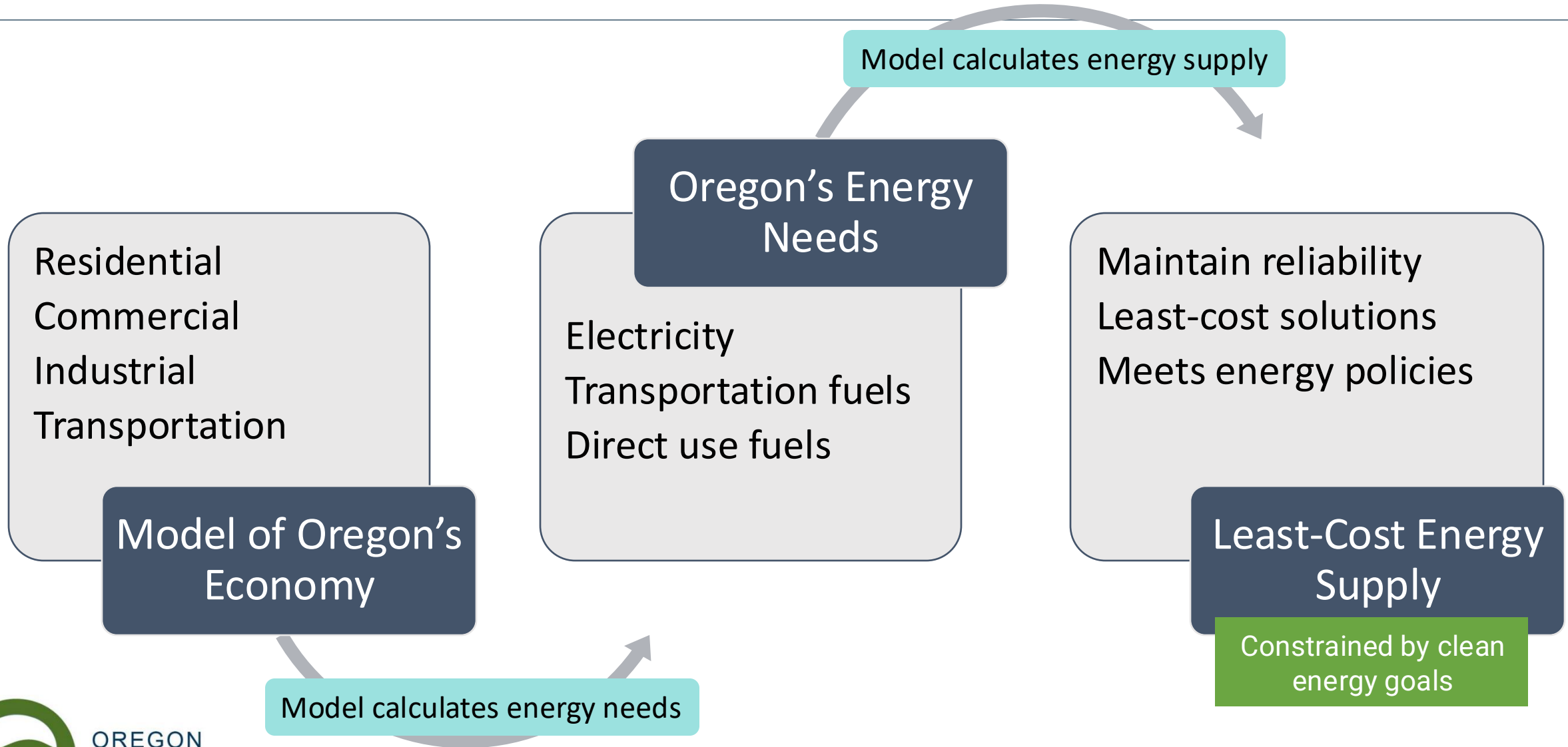
# WHAT ARE ENERGY PATHWAYS MODELING CHARACTERISTICS?

Least-cost, energy system optimization that matches Oregon-specific energy supply and demand from now until 2050 in the context of the 11 Western states:

- Considers the whole energy sector and economy and all forms of energy
- Structured to meet Oregon's energy policy objectives
- All emissions counted and modeled together to be reduced over time to achieve GHG emissions targets
- Integrated and holistic, indicates future energy supply across a specific geographic area
- Includes supply and demand of all forms of energy, not just electricity sector
- Grounded in ensuring reliability and looking for least-cost solutions

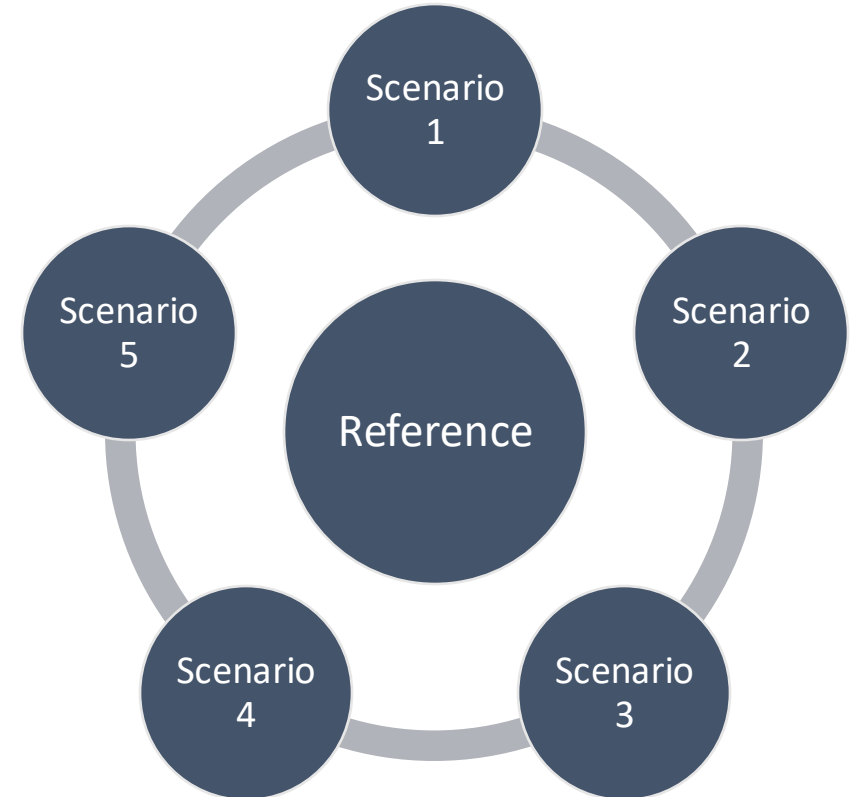


# HIGH-LEVEL OVERVIEW OF MODELING APPROACH



# SCENARIO DEVELOPMENT

- Reference Scenario
  - Develop Oregon specific database using best available resources
  - Define Reference Scenario assumptions
    - Starting point set of assumptions for stakeholders to react to and suggest changes
- Scenario Development
  - Develop set of interesting questions in collaboration with ODOE and stakeholders
    - What are the most pressing questions, uncertainties, and state priorities that will provide the most valuable information to policymakers?
  - Develop starting point study questions from stakeholder listening sessions for refinement to final five scenarios to be modeled



# DEFINING KEY QUESTIONS

Questions drive the shape of the Energy Strategy. What do we want to learn? And what can we learn with the tools that we have?

What are the most pressing questions, uncertainties, and state priorities that will provide the most valuable information to policymakers?

- Feedback requested from you
- “What if” format represents different policy choices or uncertainties

Examples:

- *What if developing new clean energy resources is delayed?*
- *What if consumer adoption of technologies like heat pumps and EVs occurs more slowly than expected?*
- *What if transmission expansion to access resources outside of Oregon is harder than expected?*
- *What if hydrogen pipelines and other clean fuel delivery systems cannot be constructed between Oregon and other states?*

# CROSS-CUTTING CONSIDERATIONS

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- Economic and employment effects
- Energy burden and affordability
- Energy resilience and energy reliability
- Environmental justice
- Land use considerations
- Natural resource impacts
- Community benefits and community energy resilience



# Discussion and Public Input

# Menti Poll

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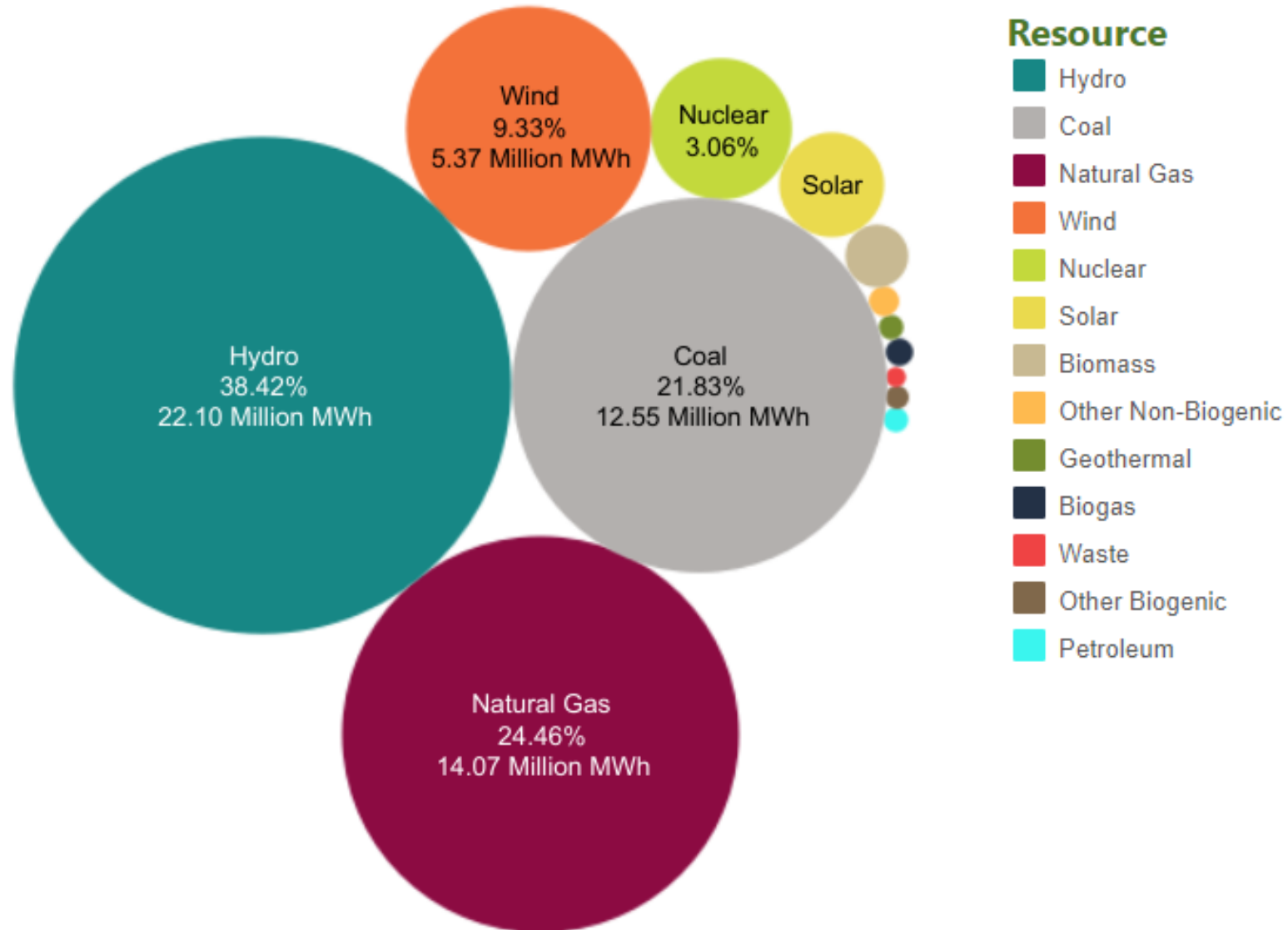
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# Electricity

We are interested in hearing your Energy Strategy questions around Oregon's **electricity** sector.

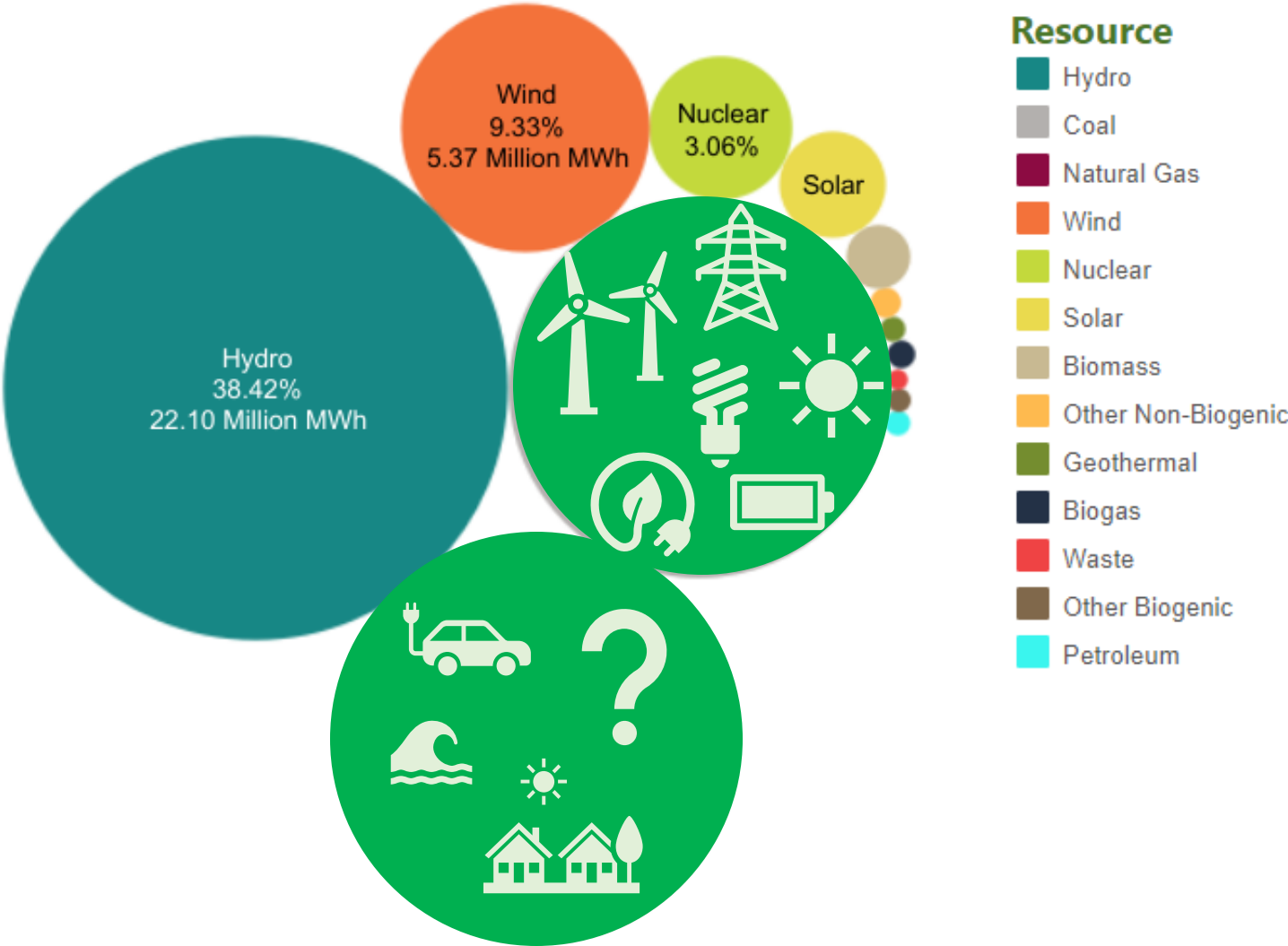


# RESOURCES USED TO GENERATE OREGON'S ELECTRICITY (2021)



# RESOURCES USED TO GENERATE OREGON'S ELECTRICITY (2040)

**HB 2021:**  
100% clean  
electricity  
by 2040



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# Direct Use Fuels

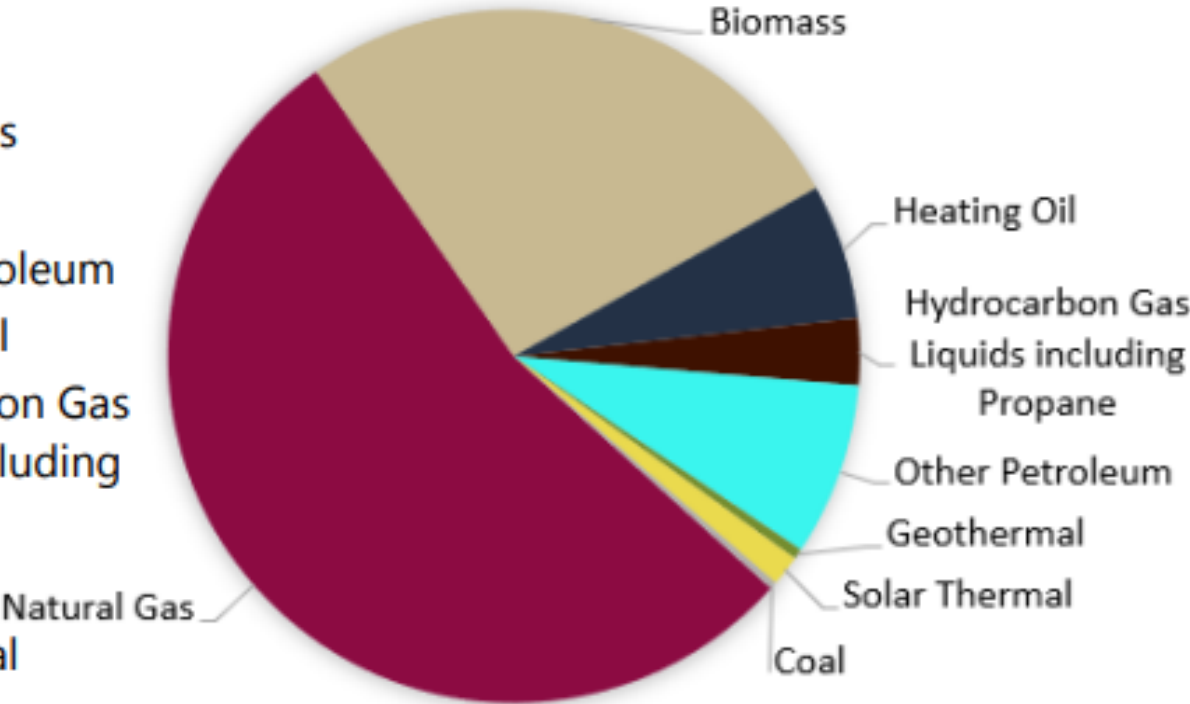
We are interested in hearing your Energy Strategy questions around how Oregon **produces and consumes direct use fuels.**

# OREGON'S ENERGY LANDSCAPE

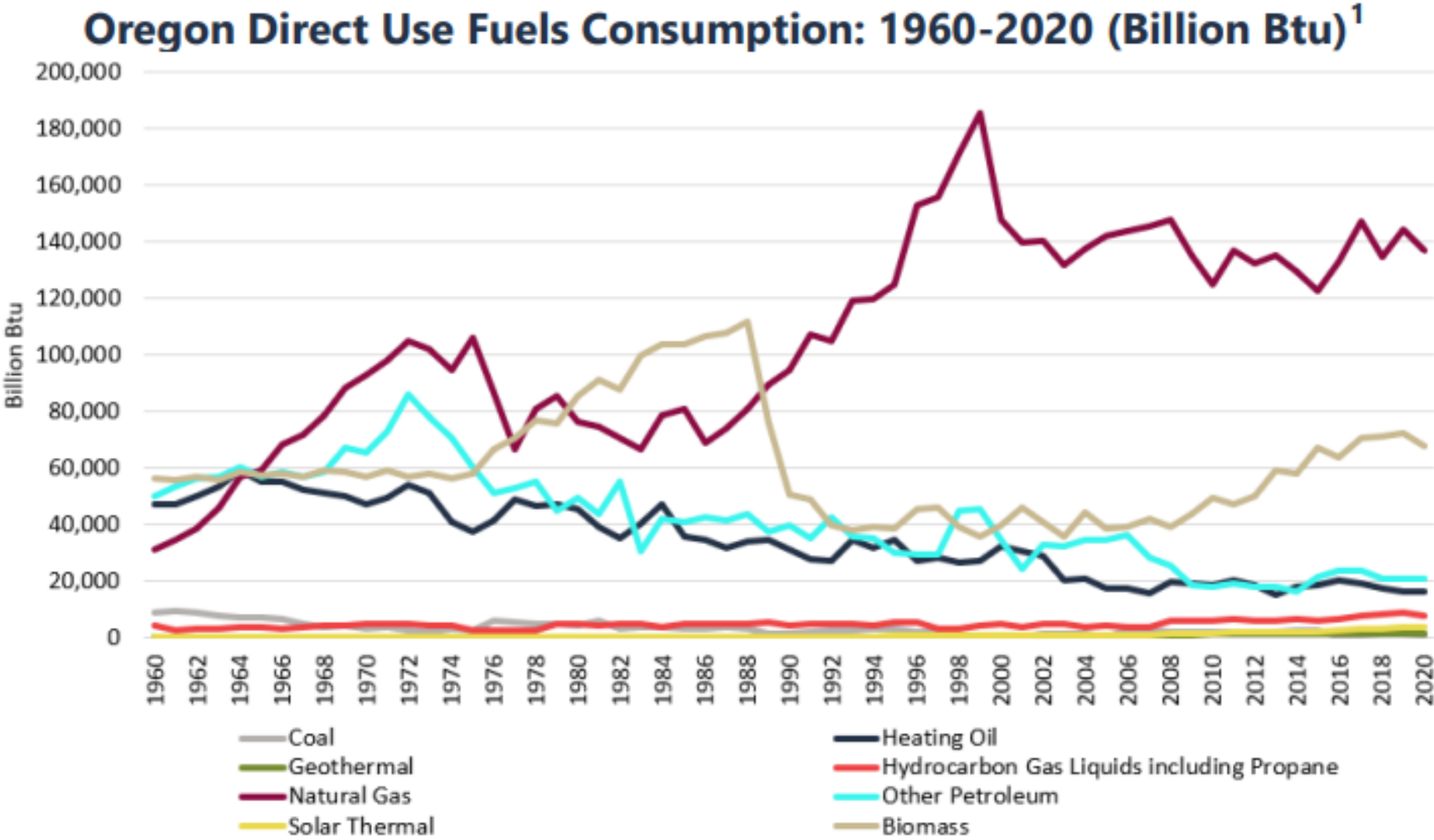
## Direct Use Fuels

26.0%  
of Oregon's  
2020  
energy  
consumption

- 53.7% Natural Gas
- 26.6% Biomass
- 8.1% Other Petroleum
- 6.3% Heating Oil
- 3.1% Hydrocarbon Gas Liquids Including Propane
- 0.3% Coal
- 0.5% Geothermal



# OREGON'S ENERGY LANDSCAPE



Source: 2022 Biennial Energy Report. All data is for 2020.

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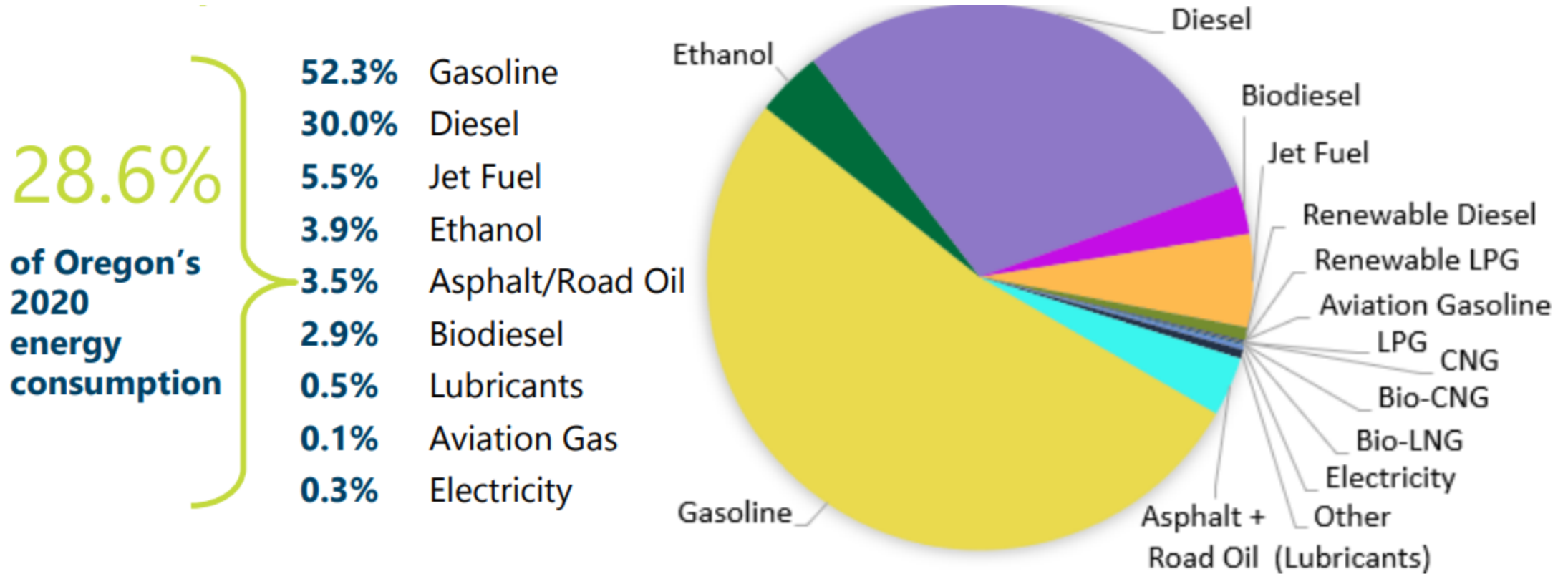
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# Transportation

We are interested in hearing your Energy Strategy questions around **transportation** in Oregon.

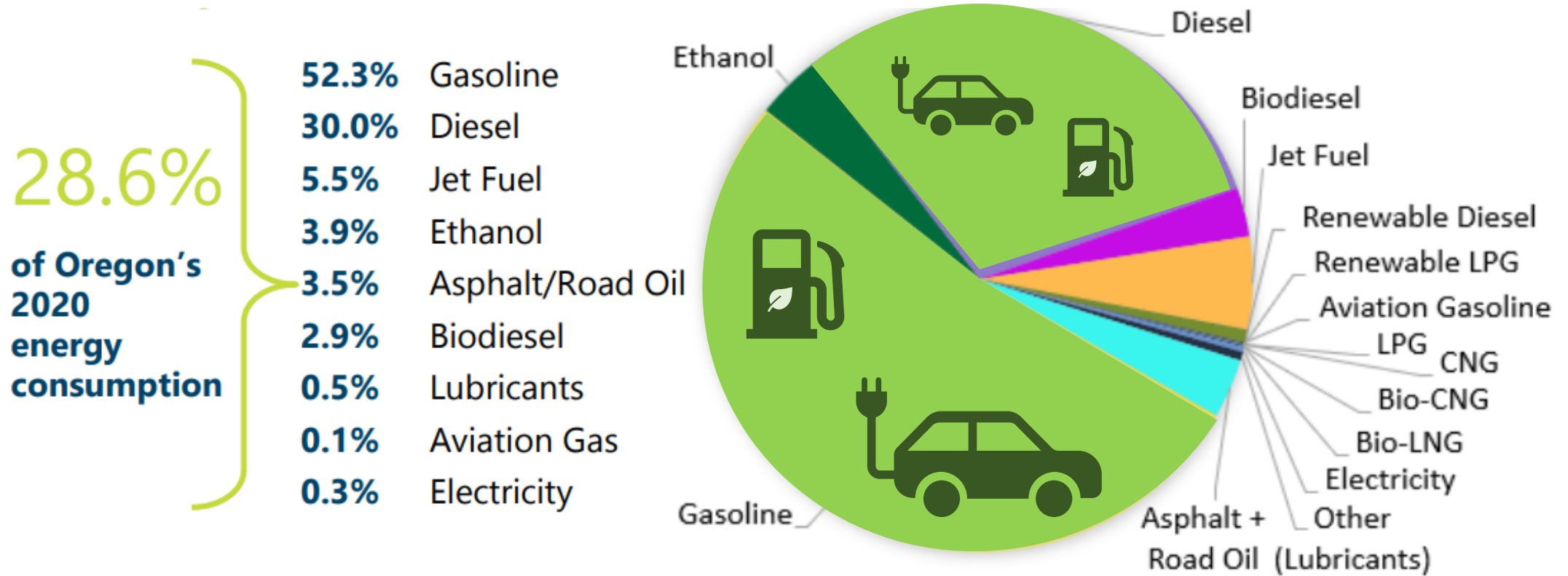


# TRANSPORTATION FUELS (2020)



# TRANSPORTATION FUELS (2050)

## The Climate Protection Program



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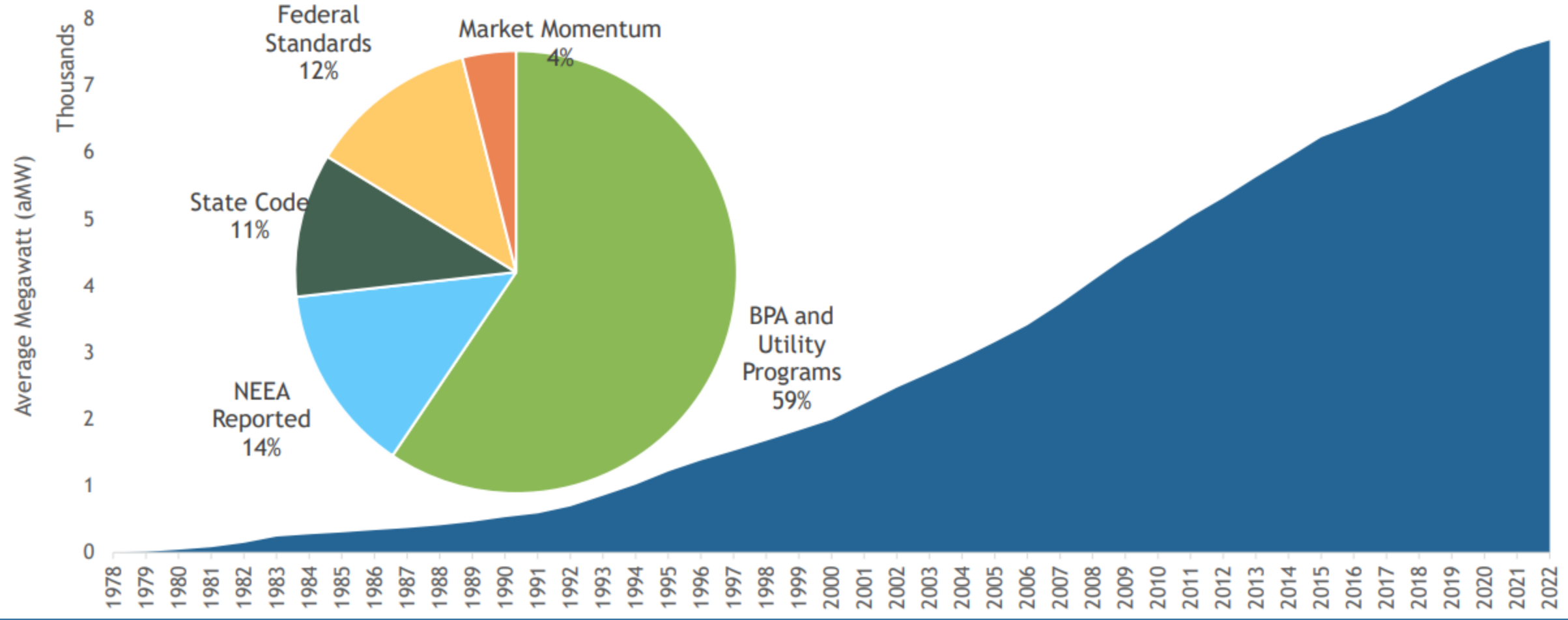
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# Energy Efficiency & Distributed Energy Resources

We are interested in hearing your Energy Strategy questions around **energy efficiency & distributed energy resources** in Oregon.

# Region has achieved 7,678 aMW

Cumulative Regional Savings, all Mechanisms



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# OPPORTUNITIES FOR FURTHER ENGAGEMENT

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## Provide Written Public Comment

- To share additional feedback on the discussion questions, complete the Listening Session Comment Form **open until August 7:**  
<https://www.surveymonkey.com/r/ListeningSessionMorning>
- Written public comment can be submitted at:  
<https://odoe.powerappsportals.us/en-US/energy-strategy/>
- Written public comment is **open until August 31**



*Listening Session  
Comment form QR Code*

# OPPORTUNITIES FOR FURTHER ENGAGEMENT

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## Upcoming Advisory Group meetings

- August 14, 2024; 9am-12pm
- September 9, 2024; 9am-12pm

Upcoming Working Group meetings (schedule on next slide)

For details on meeting agendas and how to watch visit:

[www.tinyurl.com/OregonEnergyStrategy](http://www.tinyurl.com/OregonEnergyStrategy)



# WORKING GROUP CALENDAR

<b>Breakout Meetings</b>		
<b>Topic Area</b>	<b>Breakout meeting 1</b>	<b>Breakout meeting 2</b>
<b>Land Use and Natural Resources</b>	August 5, 10am-12pm	August 12, 1pm-3pm
<b>Electricity Generation Technologies</b>	August 5, 1pm-3pm	
<b>Direct Use Fuels &amp; Industry</b>	August 6, 9am-11am	
<b>Transmission &amp; Distribution (wires and pipes)</b>	August 14, 1pm-3pm	
<b>Buildings</b>	August 16, 9am-11am	
<b>Transportation</b>	August 8, 9am-11am	
<b>Environmental Justice &amp; Equity</b>	August 6, 2pm-4pm	August 16, 1pm-3pm
<b>Energy Efficiency and Load Flexibility</b>	August 2, 1pm-3pm	
<b>Closing Meeting</b>		
<b>Final review of results from all Working Groups</b>		
<b>**All Working Groups Together**</b>	August 22, 1pm-3pm	



OREGON  
DEPARTMENT OF  
ENERGY

# Thank You

## RESOURCES

**Visit:** [www.tinyurl.com/OregonEnergyStrategy](http://www.tinyurl.com/OregonEnergyStrategy)

**Email:** [energy.strategy@energy.Oregon.gov](mailto:energy.strategy@energy.Oregon.gov)

