



Oregon

Tina Kotek, Governor



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www.oregon.gov/energy

AGENDA

Oregon Energy Strategy Listening Session, Meeting #1

July 31, 2024 / 5:00 pm – 7:00 pm

Zoom Link for virtual participants: [Zoom Meeting Link](#)

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
5:00 - 5:10 pm	Welcome and Agenda Review
5:10 – 5:30 pm	Presentation on the Oregon Energy Strategy <ul style="list-style-type: none"> • Introduction to the Oregon Energy Strategy • Introduction to the scenario modeling
5:30 - 6:55 pm	Discussion and Public Input Opportunity <ul style="list-style-type: none"> • Q&A and discussion on Oregon Energy Strategy focus areas including: <ul style="list-style-type: none"> ○ Electricity ○ Direct use fuels ○ Transportation ○ Energy efficiency and demand side resources
6:55 - 7:00 pm	Next Steps and Summary
7:00 pm	Adjourn

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

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

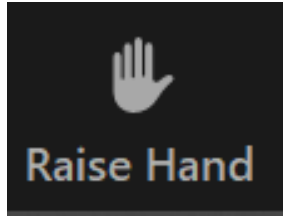
- Understanding the project as a whole, which will run from now until we publish the Energy Strategy by November 1, 2025; and
- Learning about modeling – the phase of the project we are in today – which will inform discussions on the costs, benefits, barriers, and challenges to meeting our state's energy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

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

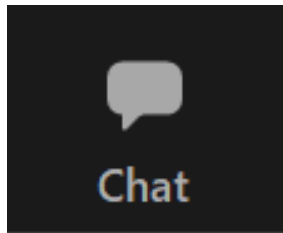
AGENDA

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



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

- 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

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

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

Ben Duncan

Facilitation Lead

Gillian Garber-Yonts

Process Support

Maria Verano

Notetaker

Menti Poll: Introduction

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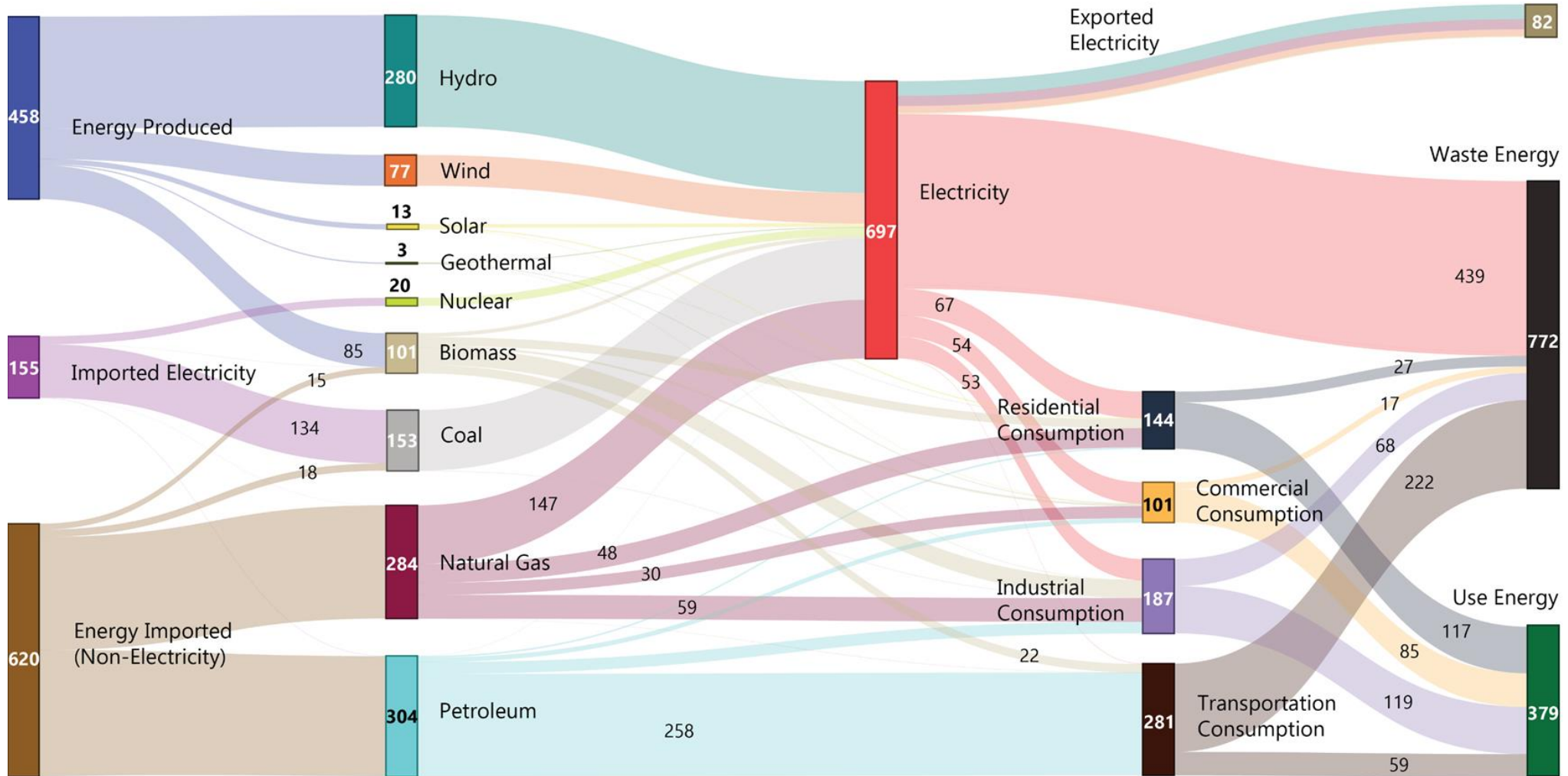
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Introducing the Oregon Energy Strategy

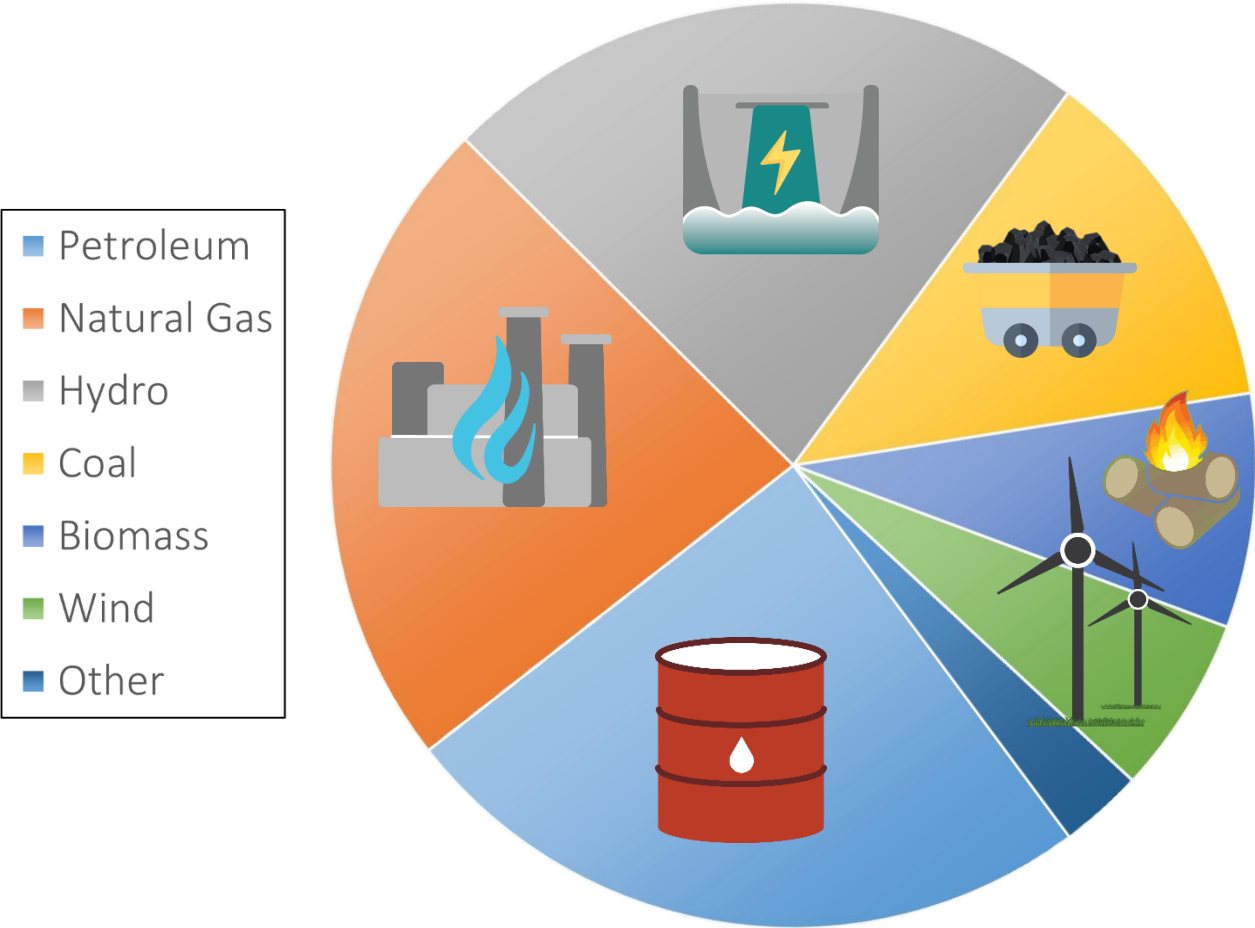
OREGON'S ENERGY FLOW 2020



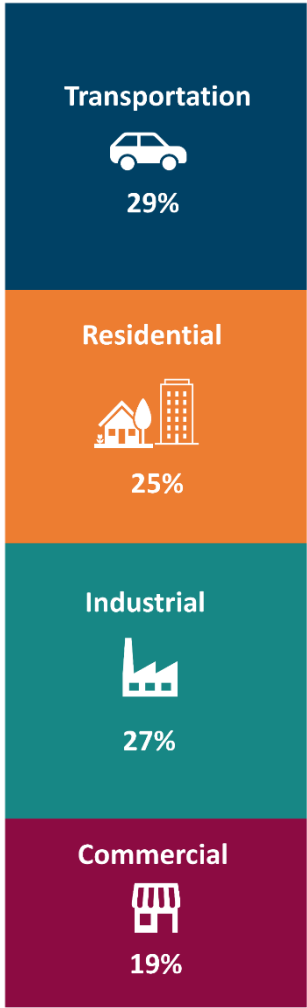
Numbers are in trillions of British thermal units (Btus)

OREGON'S ENERGY LANDSCAPE

ENERGY SOURCES



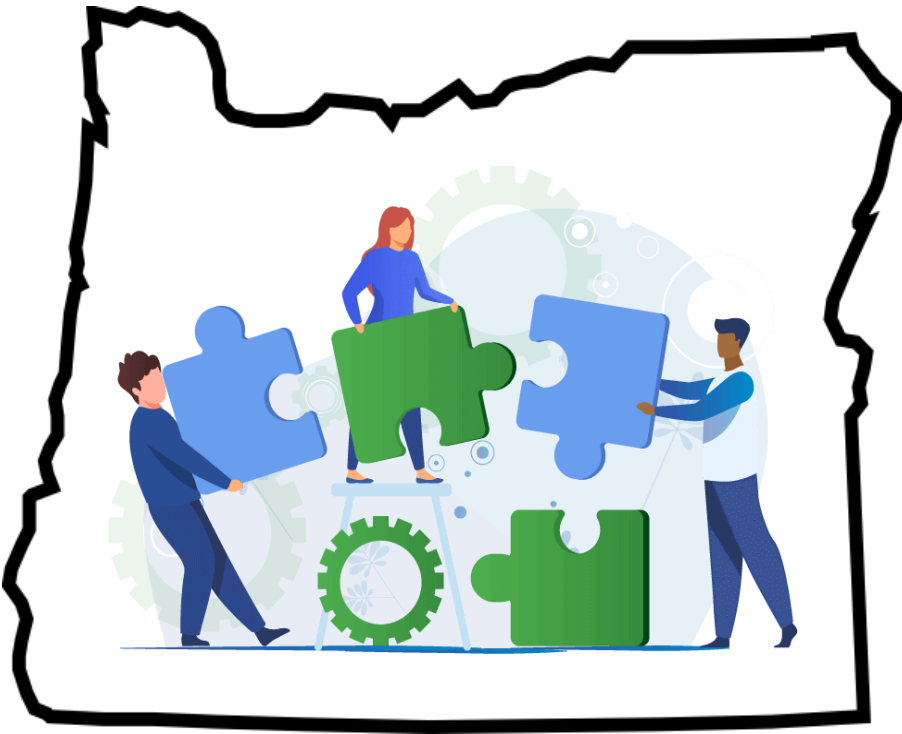
END USE SECTORS



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

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

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:

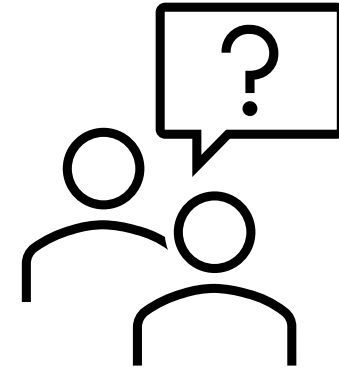
Clean Fuels Program, Advanced Clean Cars II, Advanced Clean Trucks, Building Codes, Appliance Standards, and many more....

TELL US WHAT YOU THINK

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

1.

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

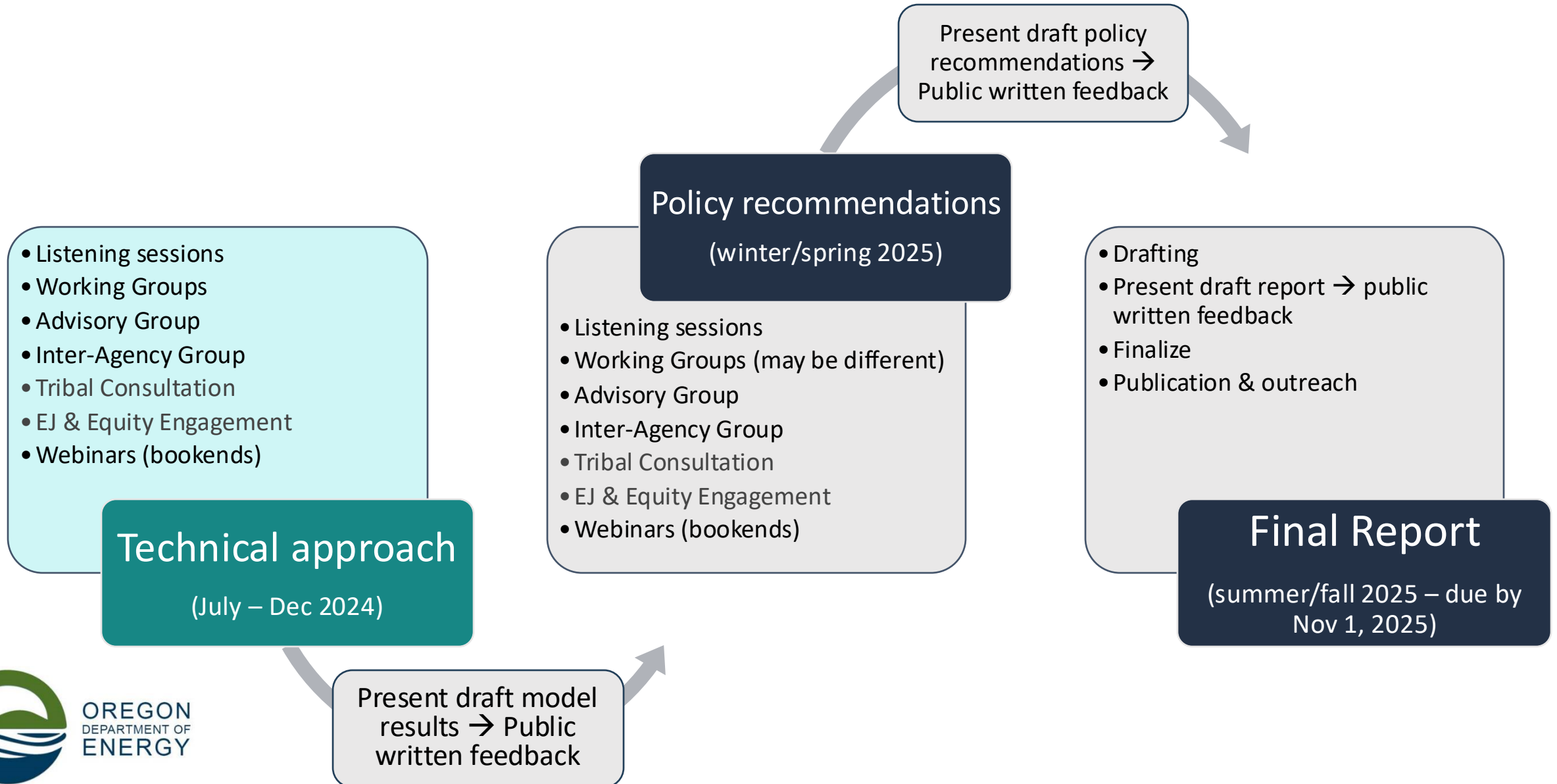
2.

Recommendations of policy options

3.

Description of stakeholder engagement and how stakeholder perspectives informed the strategy

ENERGY STRATEGY PROCESS



KEY DELIVERABLES

2024

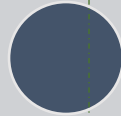
2025

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?

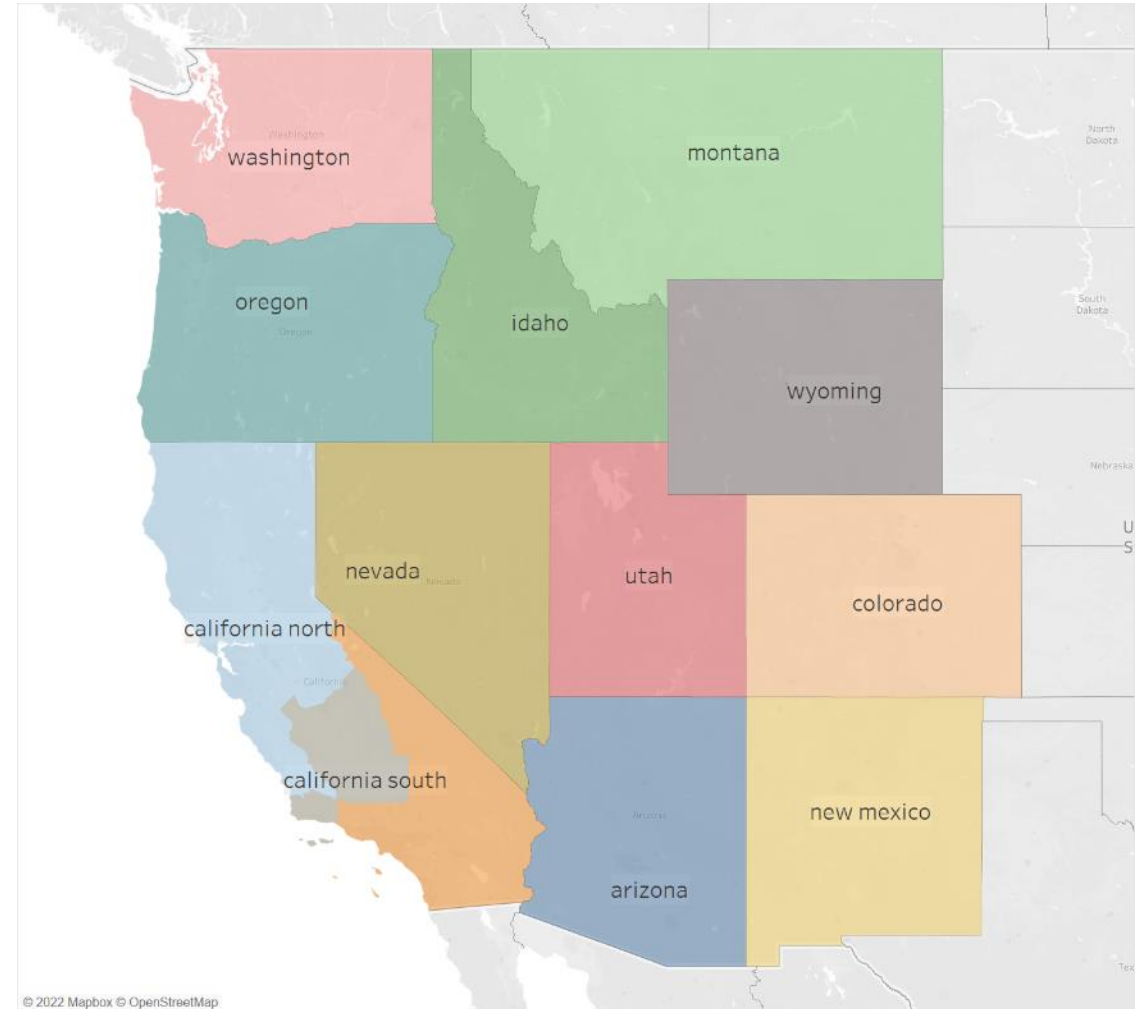
Serves to inform decision-making:

- 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

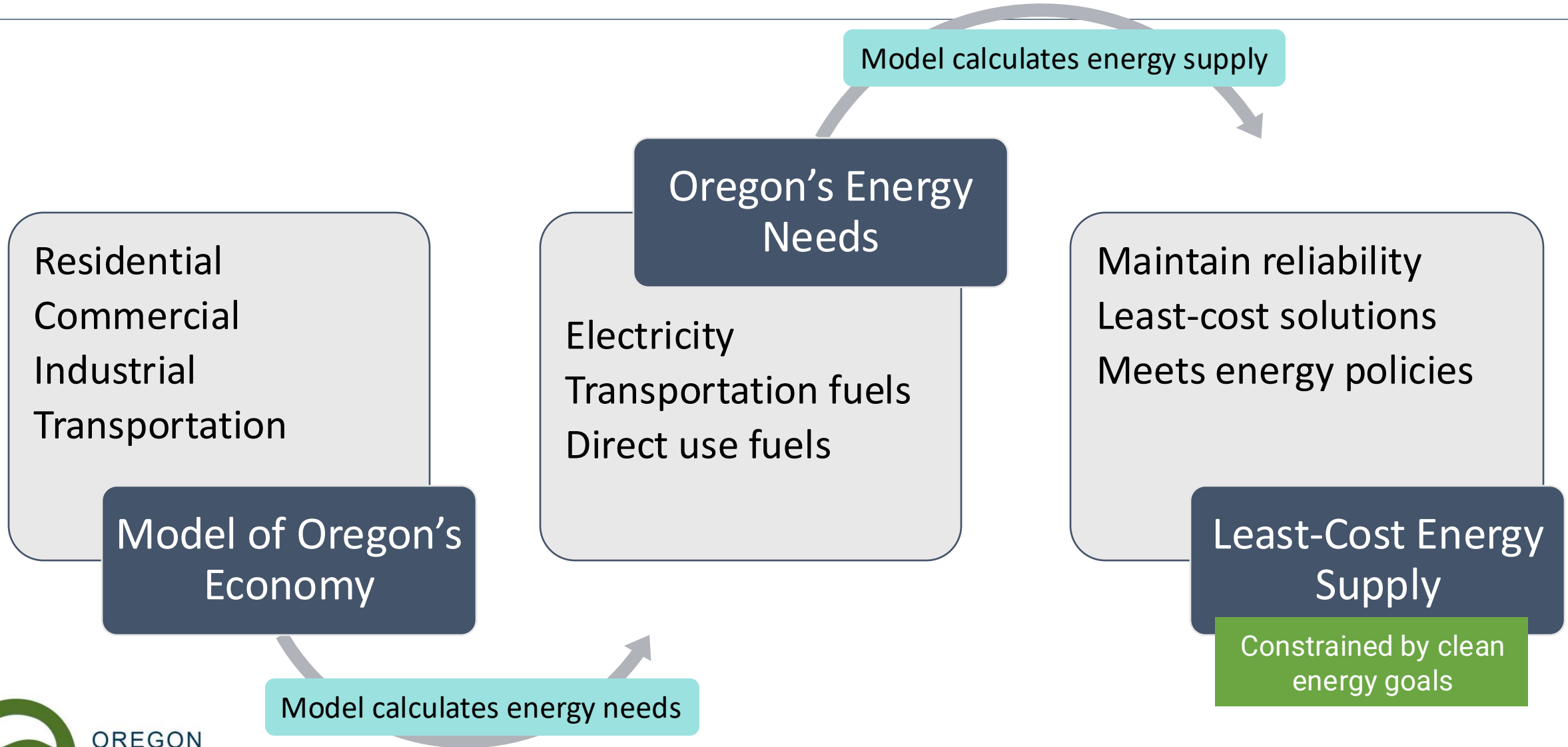
WHAT ARE ENERGY PATHWAYS MODELING CHARACTERISTICS?

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

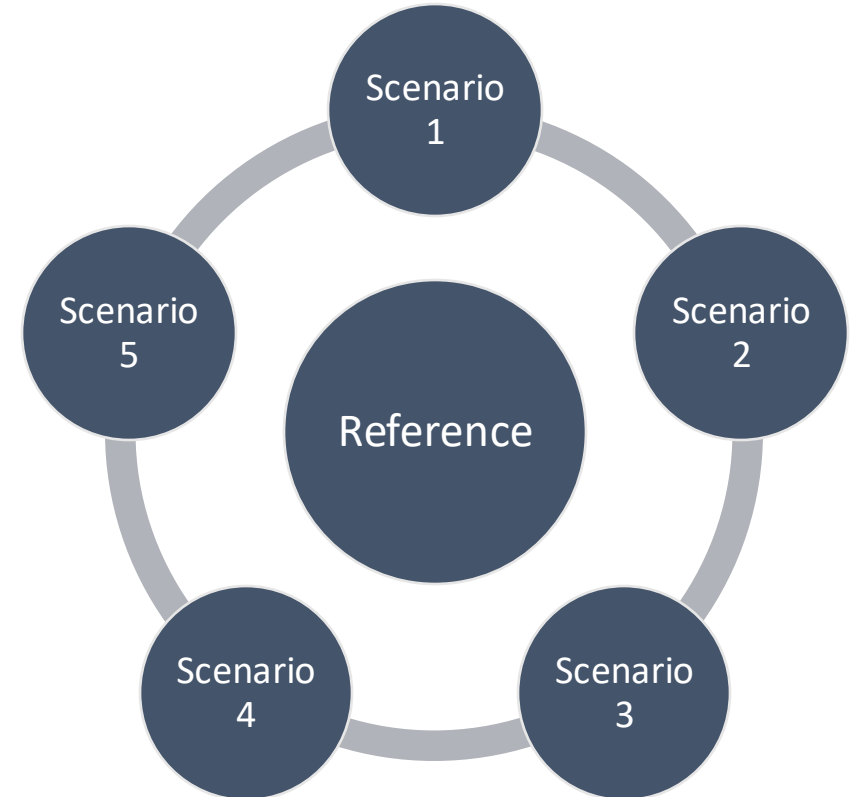


HIGH-LEVEL OVERVIEW OF MODELING APPROACH



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

- 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

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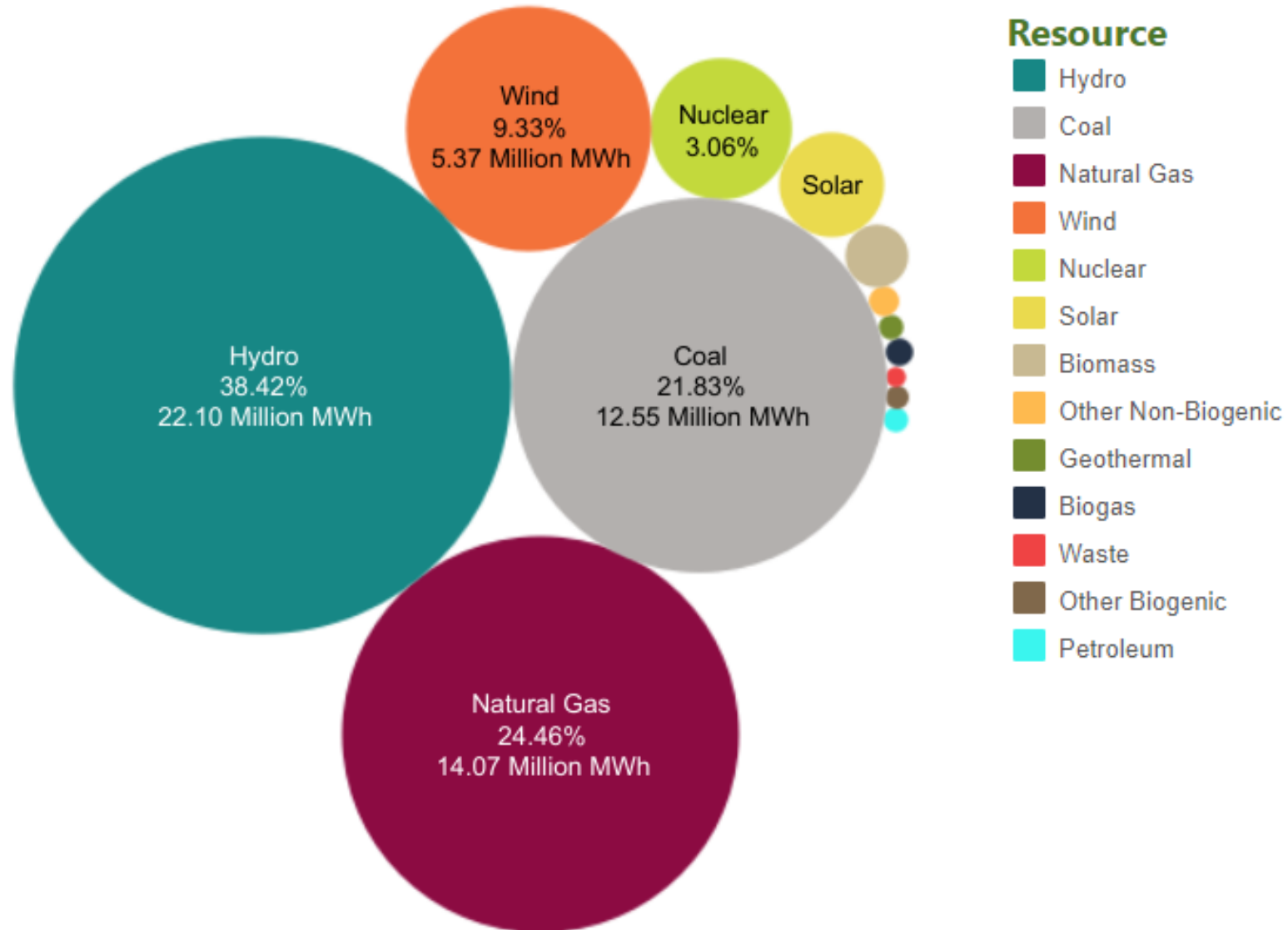


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Electricity

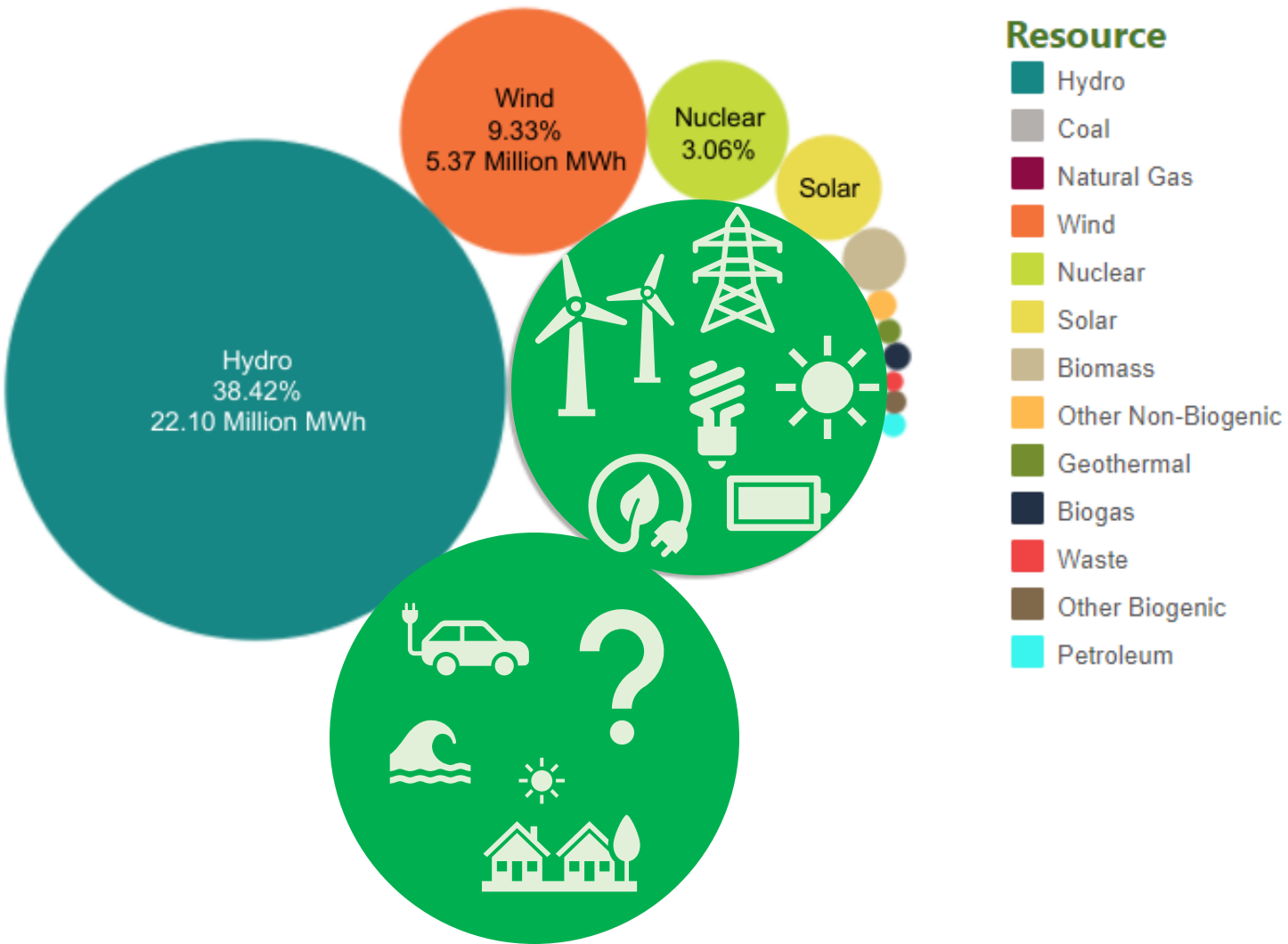
We are interested in hearing your Energy Strategy questions around Oregon's **electricity** sector.

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

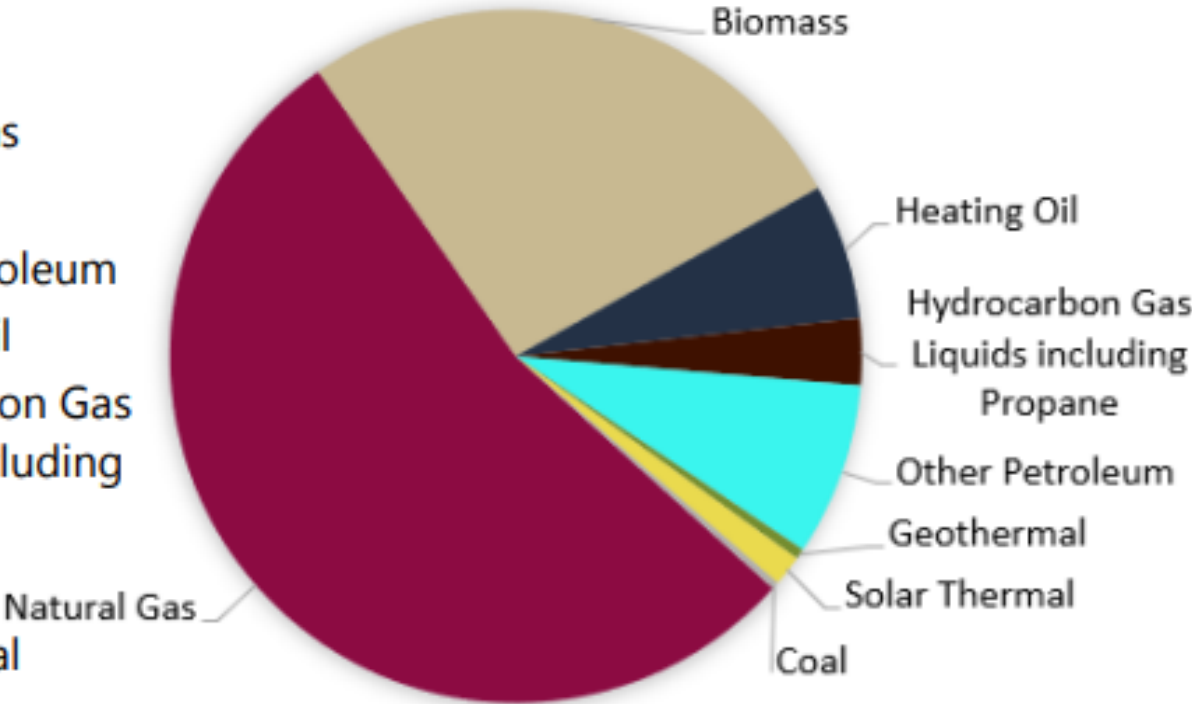
We are interested in hearing your Energy Strategy questions around how Oregon **produces and consumes direct use fuels.**

OREGON'S ENERGY LANDSCAPE

Direct Use Fuels

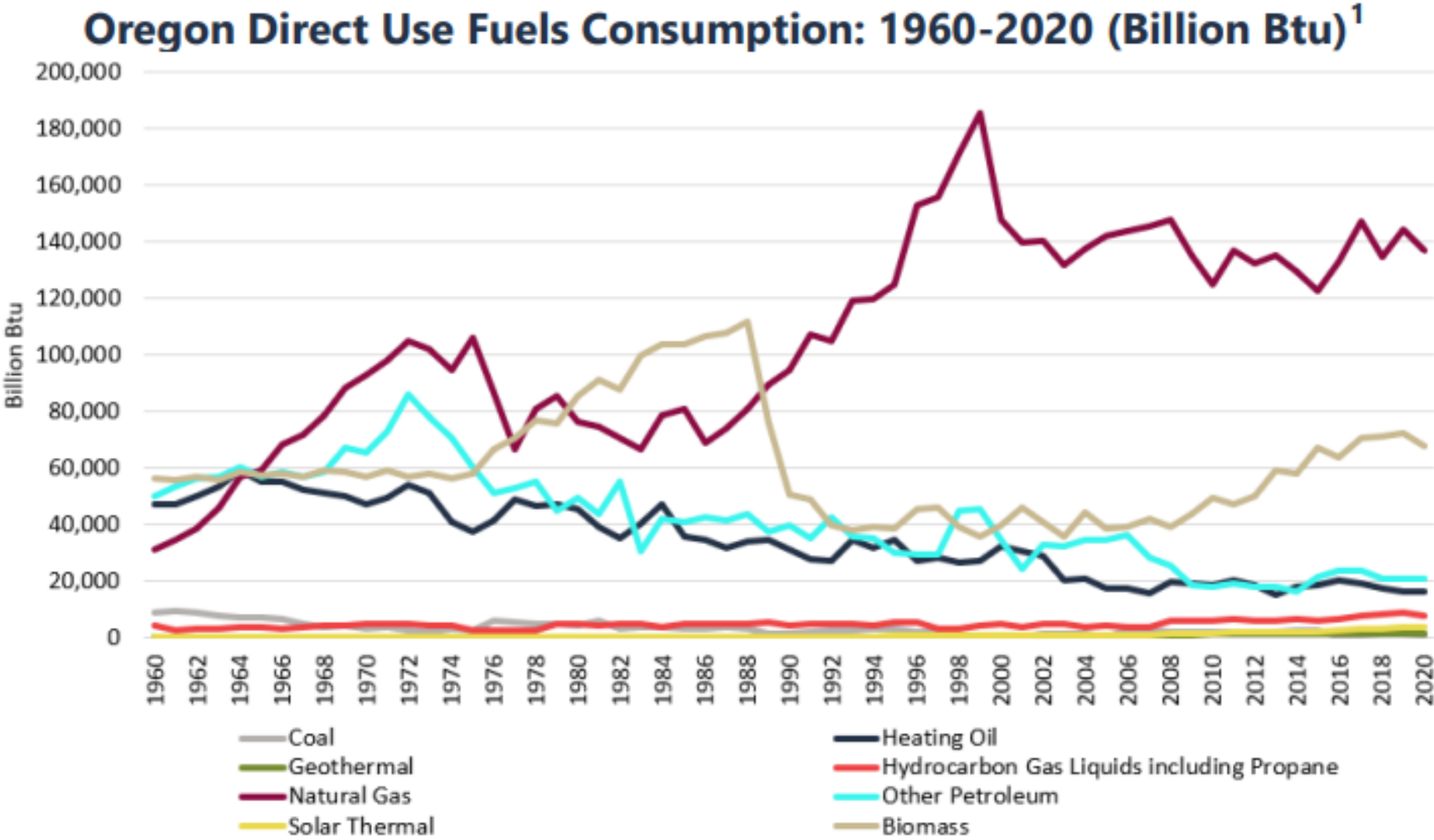
26.0%
of Oregon's
2020
energy
consumption

- 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



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

OREGON'S ENERGY LANDSCAPE



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

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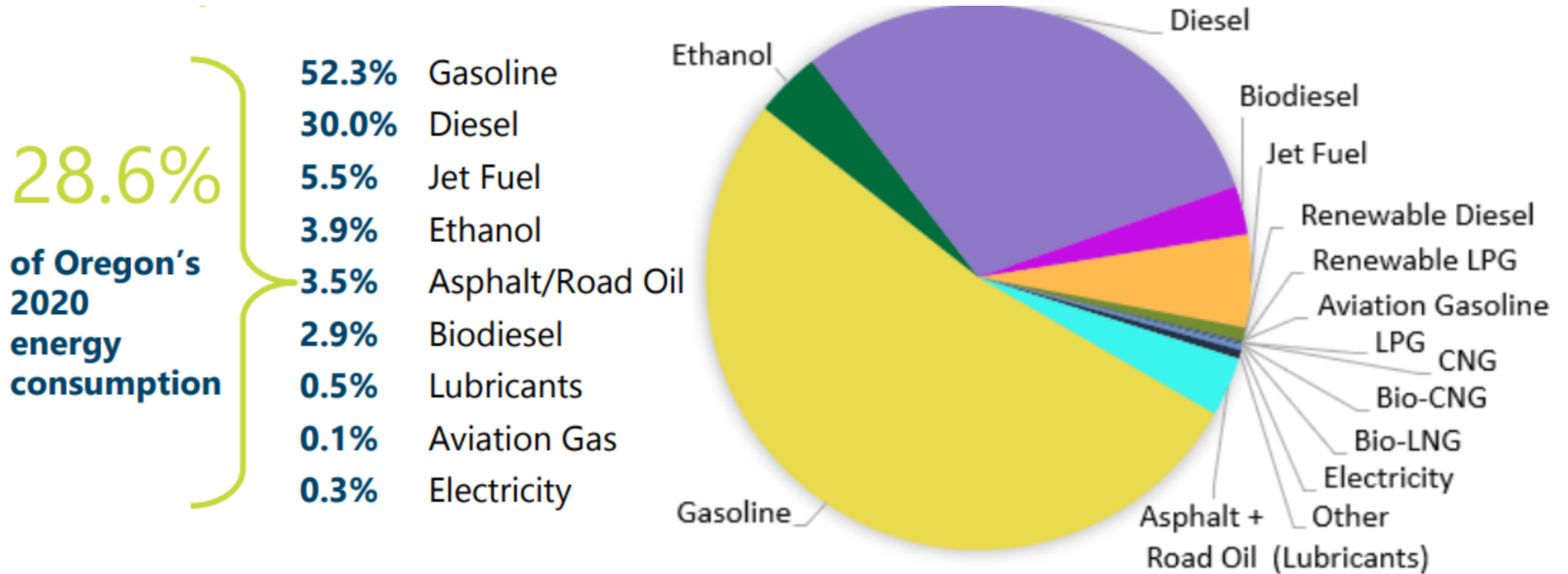


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Transportation

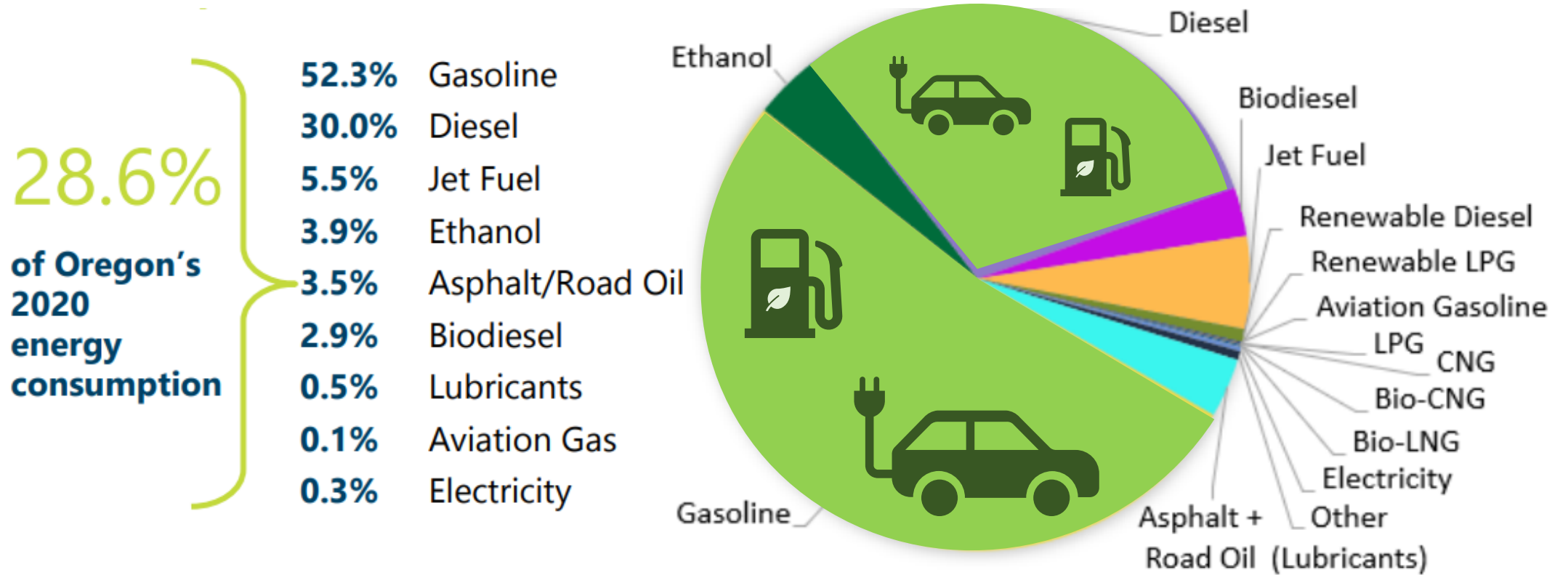
We are interested in hearing your Energy Strategy questions around **transportation** in Oregon.

TRANSPORTATION FUELS (2020)



TRANSPORTATION FUELS (2050)

The Climate Protection Program



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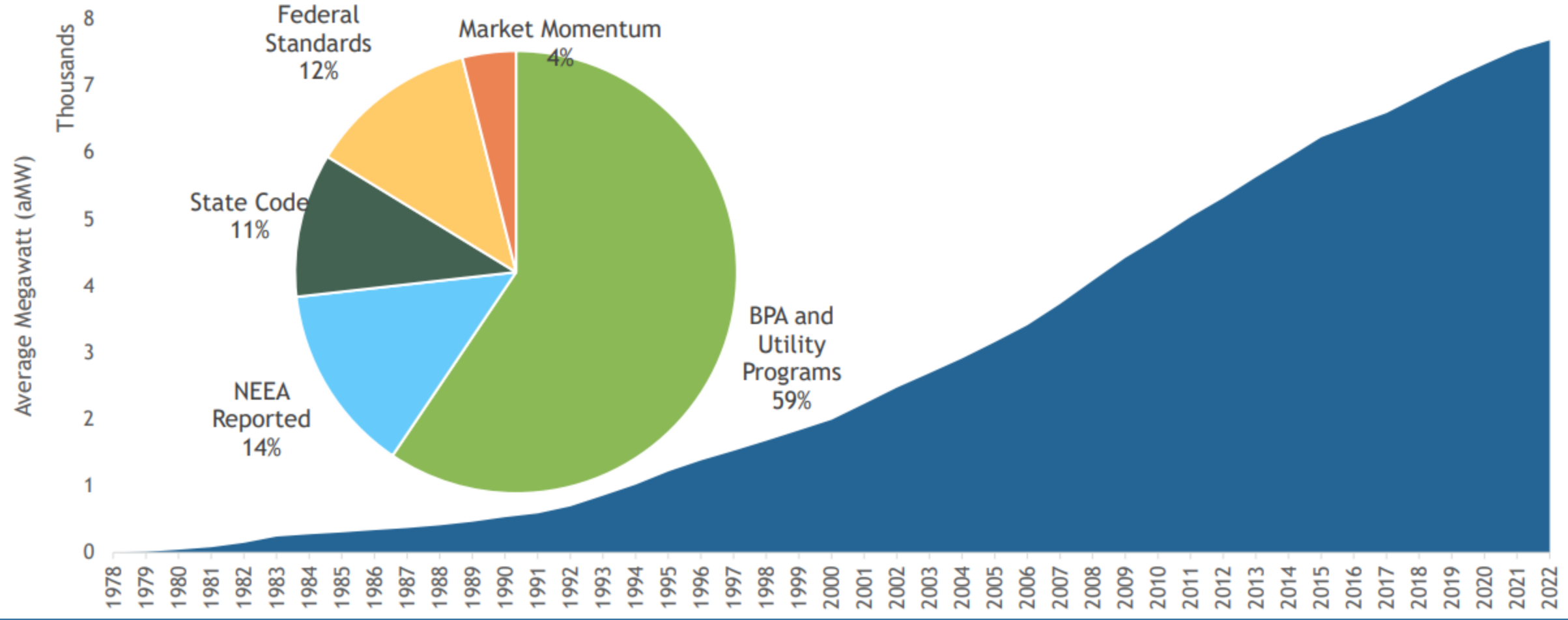
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Energy Efficiency & Distributed Energy Resources

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



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



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

WORKING GROUP CALENDAR

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



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ENERGY

Thank You

RESOURCES

Visit: www.tinyurl.com/OregonEnergyStrategy

Email: energy.strategy@energy.Oregon.gov

