

# Oregon Energy Strategy Project Launch Webinar

November 13, 2023



# OREGON DEPARTMENT OF ENERGY

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



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

### **SLIDO POLLING**

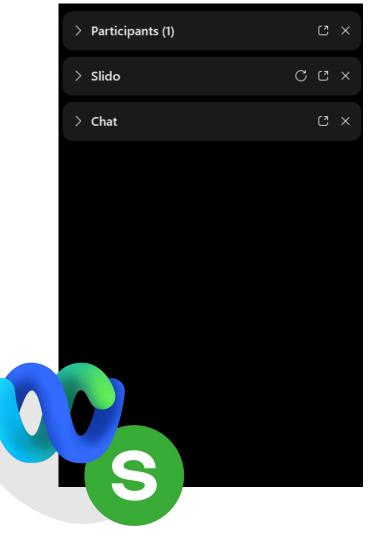
We will be using Slido to do live polling throughout the webinar.

Slido questions can be found on the right side of the screen, near the chat feature.

If the question is not appearing, refresh the Slido app.

Click "submit" to send your answers. (You may need to scroll down to see the button.)





NDA	10:30	Welcome	Janine Benner, Director, Oregon Department of Energy
AGEN	10:40	Introduction to the Energy Strategy	Edith Bayer, Oregon Department of Energy
	10:50	Agency Roles in Oregon's Climate and Energy Landscape	<ul> <li>Amy Schlusser, Oregon Department of Energy</li> <li>Caroline Moore, Oregon Public Utility Commission</li> <li>Colin McConnaha, Oregon Department of Environmental Quality</li> <li>Alexis Hammer, Oregon Department of Land Conservation and</li> <li>Development</li> <li>Amanda Pietz, Oregon Department of Transportation</li> <li>Michael Held, Business Oregon</li> </ul>
	11:30	Stakeholder Engagement	Ruchi Sadhir, Oregon Department of Energy
	11:40	Q&A	Jessica Reichers, Oregon Department of Energy
	11:55	Next Steps	Edith Bayer, Oregon Department of Energy

# Introduction to the Energy Strategy



#### 2022 Biennial Energy Report

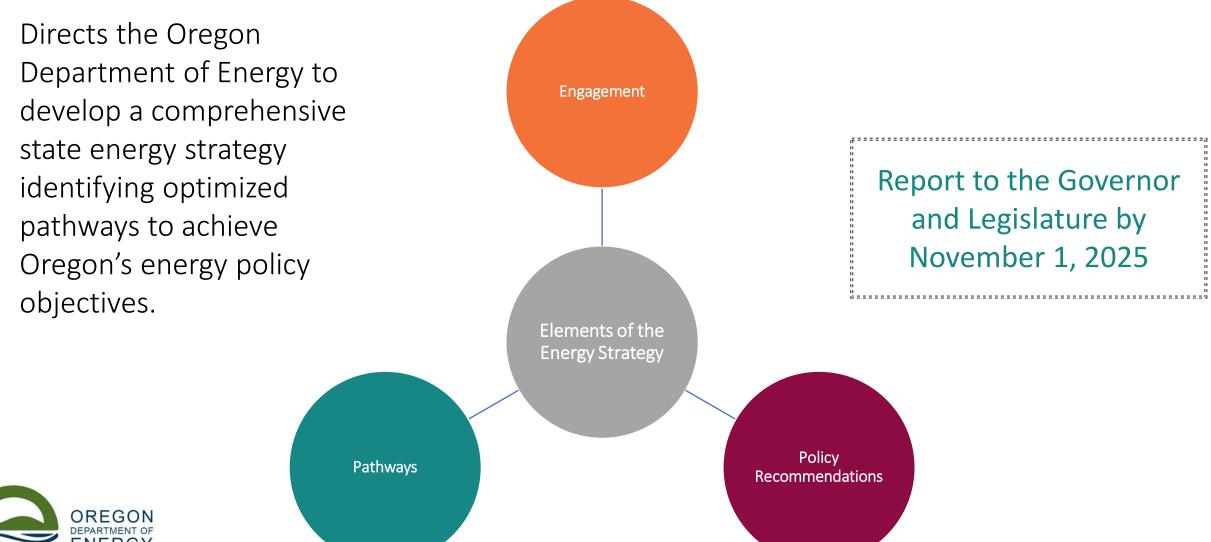
- Reviewed 20 technical studies from around the country
- Concluded that the state would benefit from a state Energy Strategy

#### An Energy Strategy can help

- Align policy development, regulation, investment, and technical assistance
- Identify pathways to meet the state's policy goals
- Maintain affordability, reliability
- Strengthen the economy
- Prioritize equity
- Maximize benefits and minimize harms



### HB 3630, STATE ENERGY STRATEGY



### THE ENERGY STRATEGY IN A NUTSHELL

# Must be informed by:

- Stakeholder perspectives
- Sate laws, policies, targets re: energy and GHG emissions
- Existing energy and IRPs
- Energy-related studies and data analysis
- State energy policy objectives

# Take into account (at a minimum):

- State Energy demand and trends
- Energy resources and tech choices considering costs, EE, feasibility & availability
- Existing & potential incentives to support EE
- Energy generation, transmission, distribution infrastructure
- Emerging tech & investment opportunities

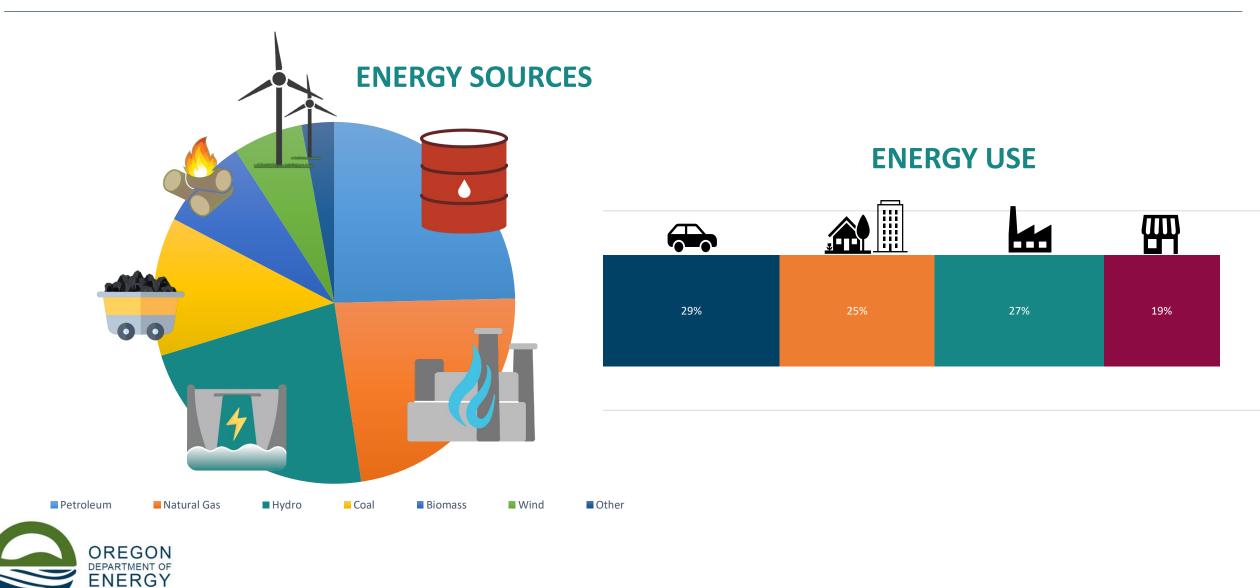
- Environmental justice
- Community benefits
- Land use considerations
- Energy burden & affordability
- Econ and employment impacts
- Energy security and impacts of broader markets
- Energy resilience
- Community Energy resilience

#### Engagement:

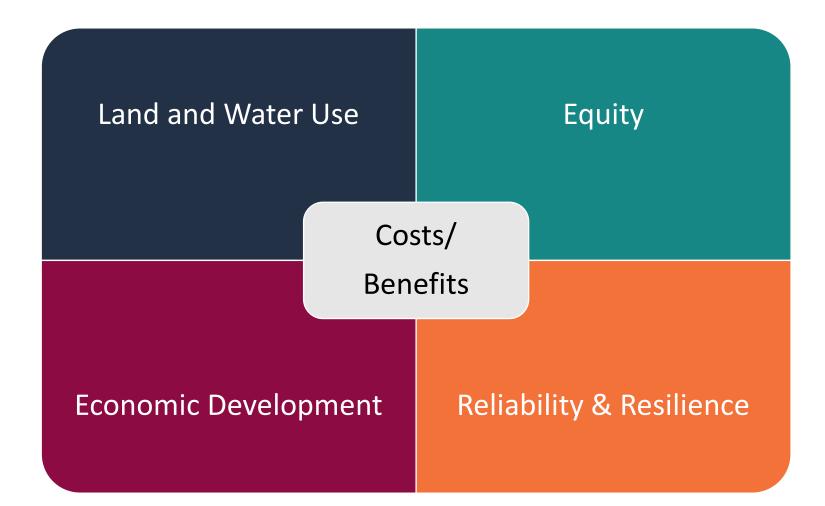
- State agencies, Tribes, stakeholders w/ diverse range of:
- Interests, perspectives, expertise, education
- Socioeconomic backgrounds
- Communities
- Geographic areas of the state

Reflects the best available info, data analyses and time horizons necessary to achieving the state's energy policy objectives Periodically update the E Strategy to reflect current information, data analysis and state energy policy objectives

### **OREGON'S ENERGY LANDSCAPE**



### **BALANCING TRADEOFFS**





### PROCESS



### Identifying Key Questions

For example...

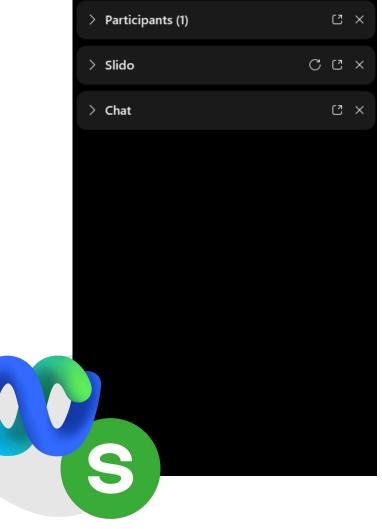
- What are the no- or low- regrets options to reaching our goals?
- How can the Strategy help address knowledge gaps to help us better weigh the benefits and tradeoffs of different pathways to achieve our climate and energy targets?
- What more is needed to help meet our existing statutory goals (policies, programs, engagement)?



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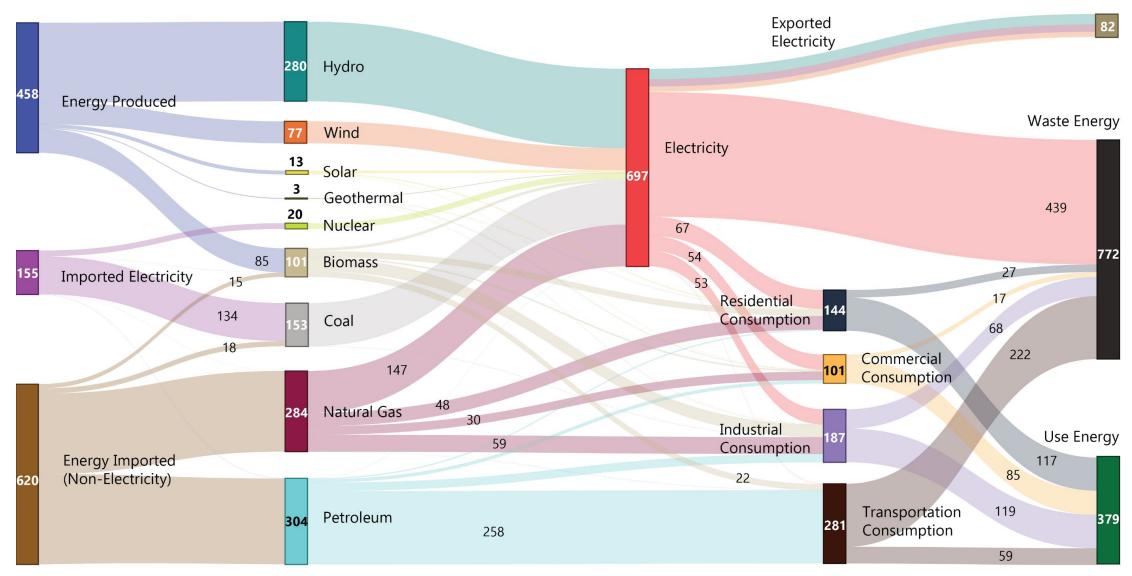
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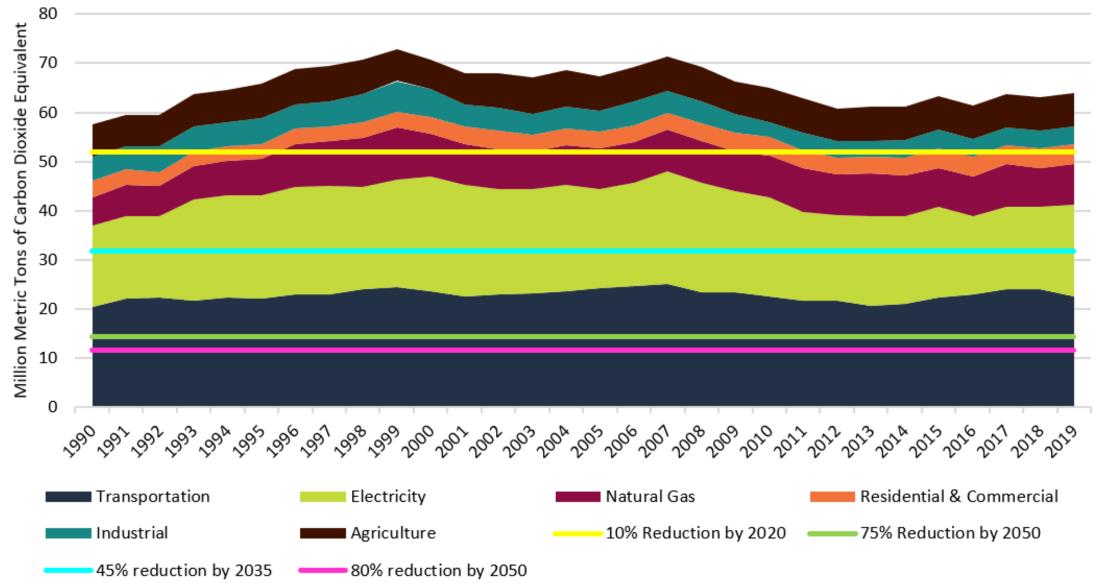
# Agency Roles in Oregon's Climate and Energy Landscape

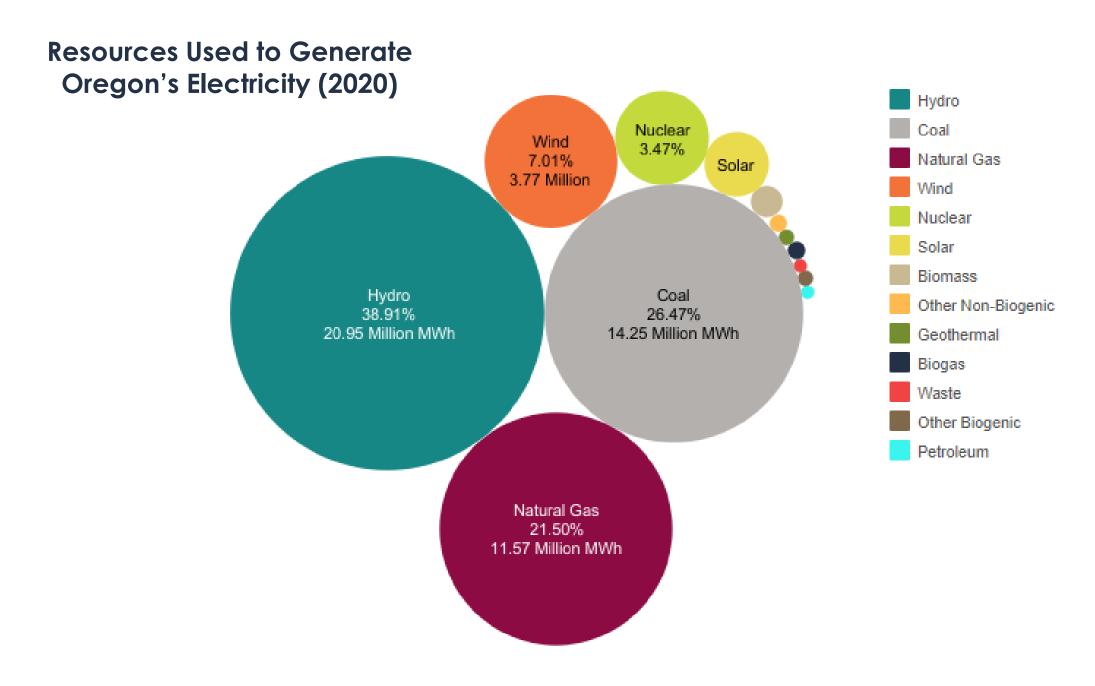
### **Oregon's Energy Flow 2020**



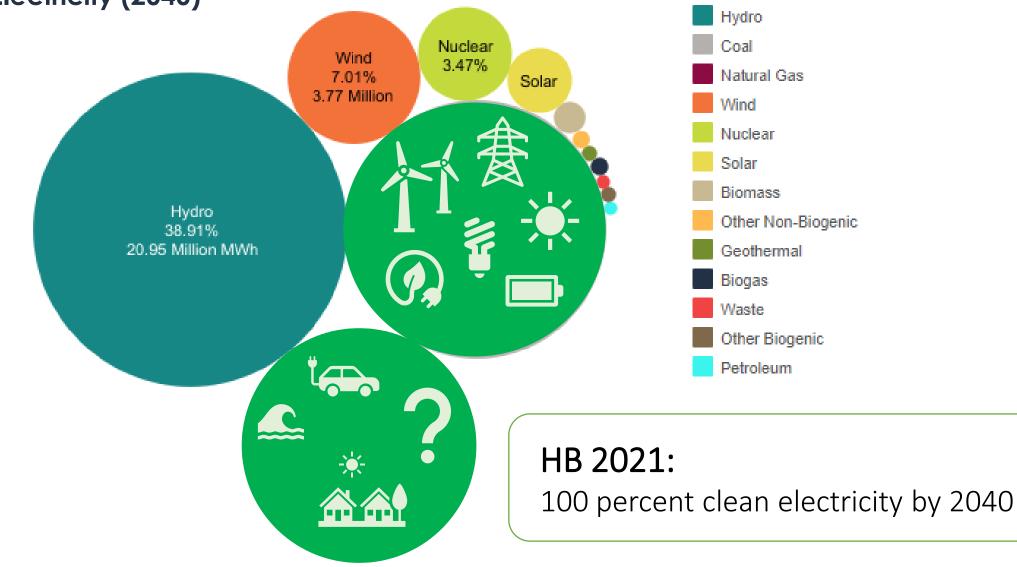
Numbers are in trillions of British thermal units (Btus)

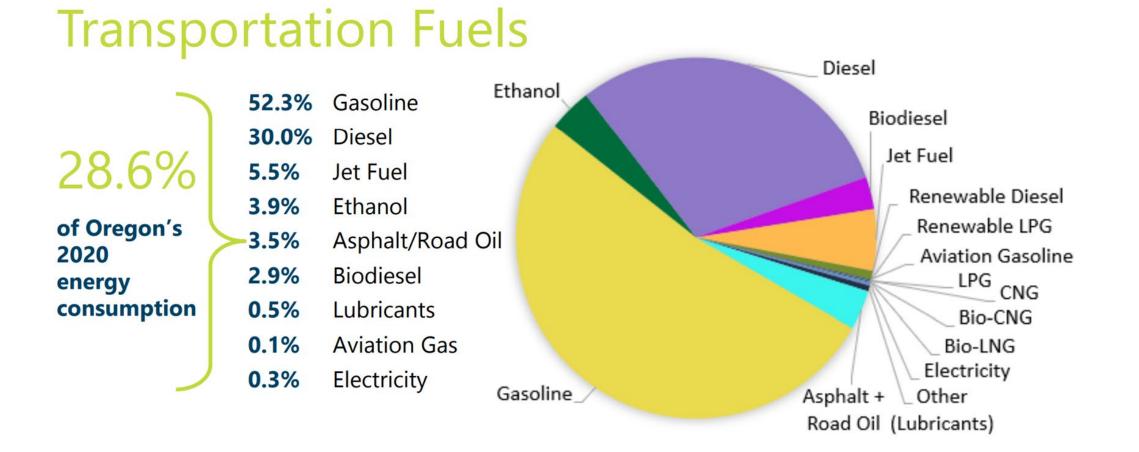
### **Oregon Greenhouse Gas Emissions Over Time**





#### Resources Used to Generate Oregon's Electricity (2040)







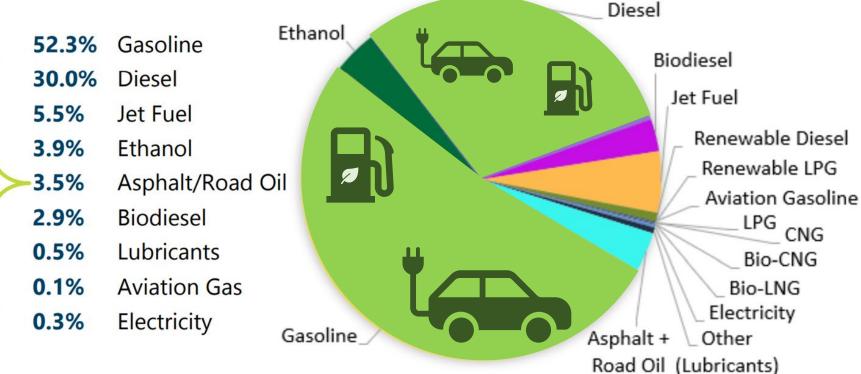
#### **The Climate Protection Program:**

90 percent reduction in fossil fuel emissions by 2050

### **Transportation Fuels**

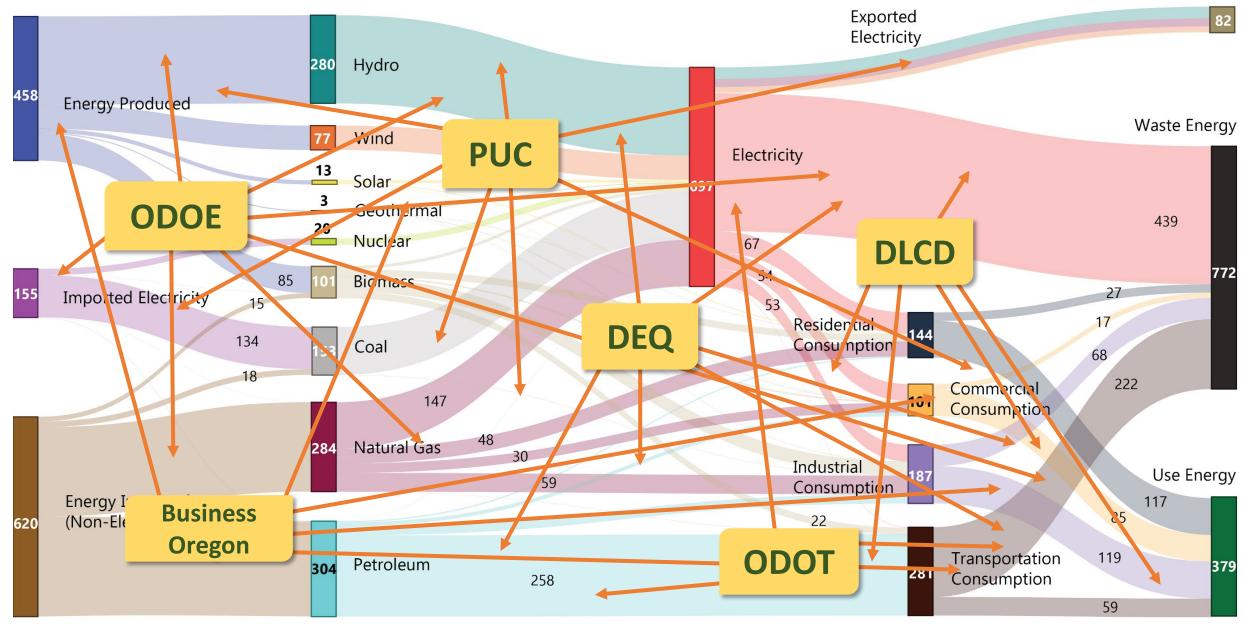
of Oregon's 2020 energy consumption

28.6%



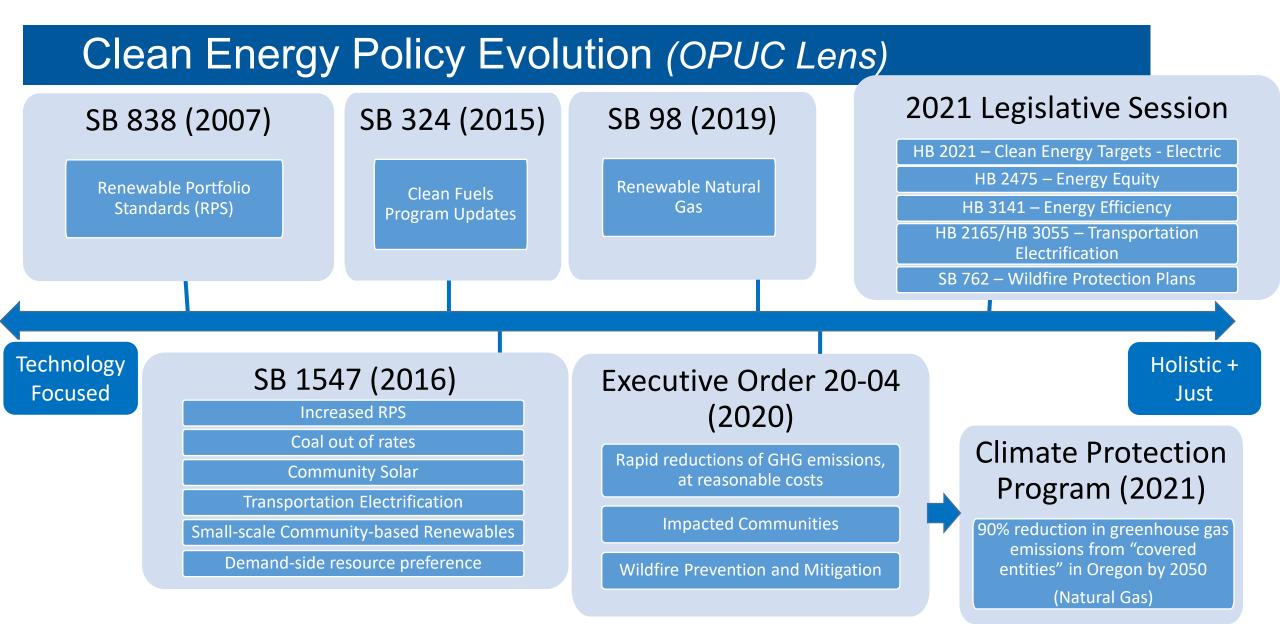


#### **Oregon's Energy Flow & Regulatory Overlay**



2020 data. Numbers are in trillions of British thermal units (Btus) 22

# **OREGON PUBLIC UTILITY COMMISSION**

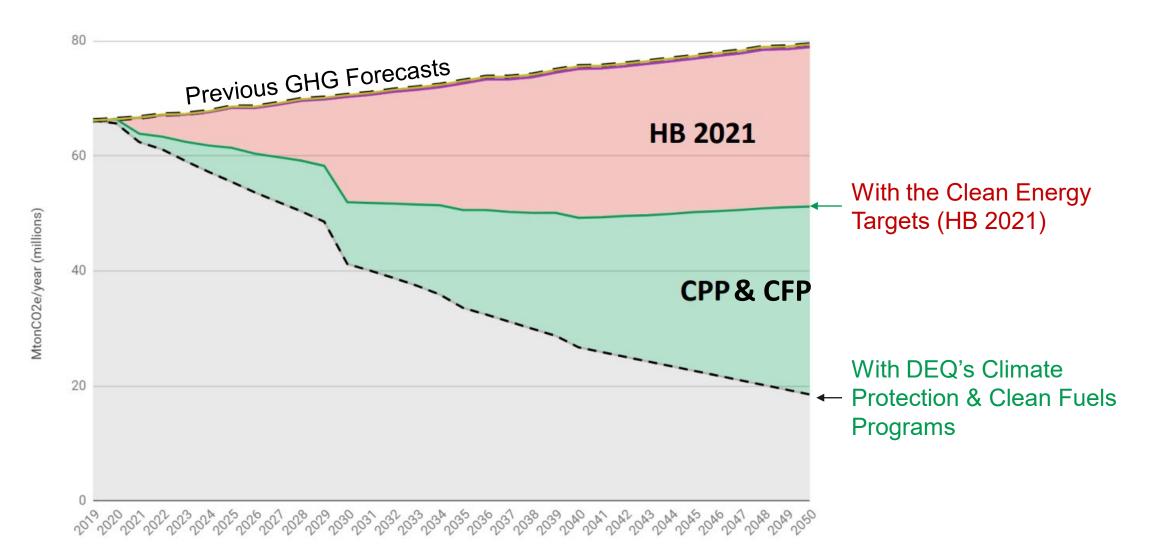


### **OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY**

#### DEQ's role in helping meet Oregon's climate and energy goals:

- Regulatory & non-regulatory programs at statewide scale
- Regulatory programs include:
  - Climate Protection Program
  - Clean Fuels Program
  - Clean Energy Targets (HB 2021) (GHG accounting portions)
  - Zero-emission vehicle mandates on light, medium and heavy duty classes
- Non-regulatory programs include:
  - EV Rebates
  - A variety of "Materials Management" programs

### FORECAST OF OREGON GHG EMISSIONS



Source: Oregon Global Warming Commission

### OREGON DEPARTMENT OF LAND CONSERVATION AND DEVELOPMENT

DLCD regulates land use statewide to conserve natural resources and foster economic development:

- Existing energy siting rules
- Currently undertaking rulemaking to streamline solar siting process in Eastern Oregon
- Oregon Coastal Management Program and federal consistency Offshore wind
- Climate Friendly and Equitable Communities reducing vehicle miles traveled through land use planning and building for EV infrastructure



# **OREGON DEPARTMENT OF TRANSPORTATION**

ODOT's vision is to support all Oregonians by connecting people and goods to places in the most climate-friendly, equitable, and safe way. We are integrating climate into planning, investment decisions, funding, construction, and maintenance.

#### Reduce Passenger Vehicles Miles Traveled by 20% by 2050

- Transition to low and no emission modes: biking, walking, and public transportation
  - Make investment decisions that are accountable to climate impacts (reduce emissions and increase resiliency)
  - Secure additional funding (e.g. administer ~ \$330M/yr for multimodal programs and projects a 5x increase over last 10 years)
  - Utilize Transportation Demand Management strategies (e.g. employer programs, parking management, etc.)
  - Restructure roadway pricing (e.g. vehicle miles traveled fee)
  - Support conducive land uses that enable trips to be made biking, walking and taking transit
- Need to identify opportunities to maximize the exiting use of the transportation system and energy efficiency per person

#### Transition to Cleaner Vehicles and Fuels by Reducing CO2e Per Mile by 77% by 2050

- Add charging infrastructure for transportation electrification
- Enable hydrogen refueling for medium- and heavy-duty
- Need to understand the electrical grid capacity for transportation electrification in the context of overall demand, identify grid load management opportunities, and how to optimize other alternative fuels



### **BUSINESS OREGON**

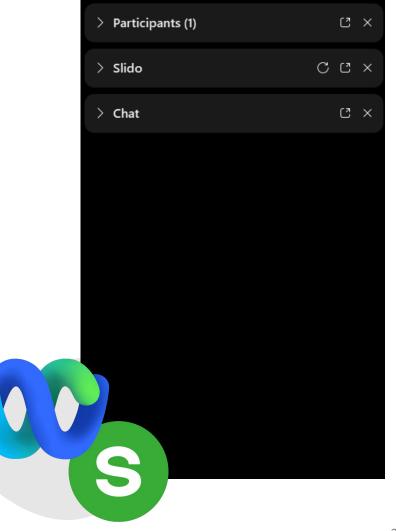
#### Role in helping meet Oregon's climate and energy goals

- Provide boots-on-the-ground connections to Oregon industry; leverage deep relationships
- Partner with and support partner initiatives; promote public/private partnership
- Provide direct and indirect support through technical assistance, capital, and incentives to help companies adopt and scale carbon reducing technologies, benefitting bottom-lines and the environment
- Support the Cleantech startup and business development ecosystem
- Support and incentivize smart infrastructure through existing programs, particularly for rural, disadvantaged, and under resourced communities (water, wastewater, brownfield redevelopment, broadband, etc.)
- Maintain and grow existing economic development assets to mature Oregon's economic competitiveness e.g., locally administered property tax abatement programs
- Identify industry sector and supply chain gaps: help startups, grow and scale existing Oregon businesses, and recruit targeted companies

### **SLIDO POLLING**

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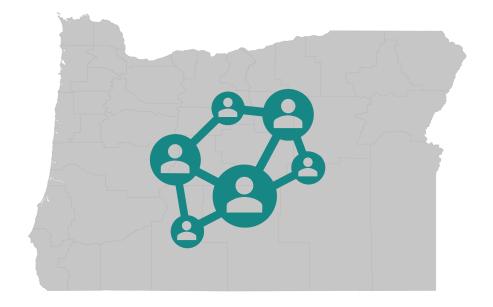
# Outreach & Engagement

### Outreach and Engagement

HB 3630 requires ODOE to engage with relevant state agencies, federally recognized Indian tribes, and stakeholders in developing the Strategy. At a minimum, the stakeholders must represent a diverse range of:

(a) interests, perspectives, expertise, and education;

- (b) socioeconomic backgrounds;
- (c) communities; and
- (d) geographic areas of the state.

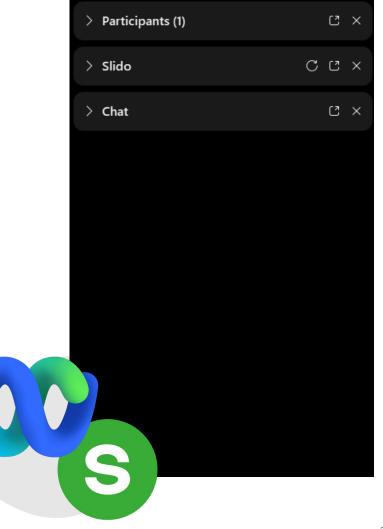




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# **Advisory Groups**

- Interagency Steering Group
- Advisory Group
- Technical Working Group

### Tribal G2G

- Early formal government-to-government notification and coordination
- Invitations for 1:1 tribal input and discussion in addition to general participation

### Feedback on Drafts

- Draft modelling results
- Draft policy recommendations
- Draft report

# **Listening Sessions**

- Facilitated small group discussions
- Hear priorities, discuss key questions and guiding principles for the Energy Strategy
- Identify difficult questions that have not yet been answered
- Feedback on the proposed data, assumptions, and modelling approach

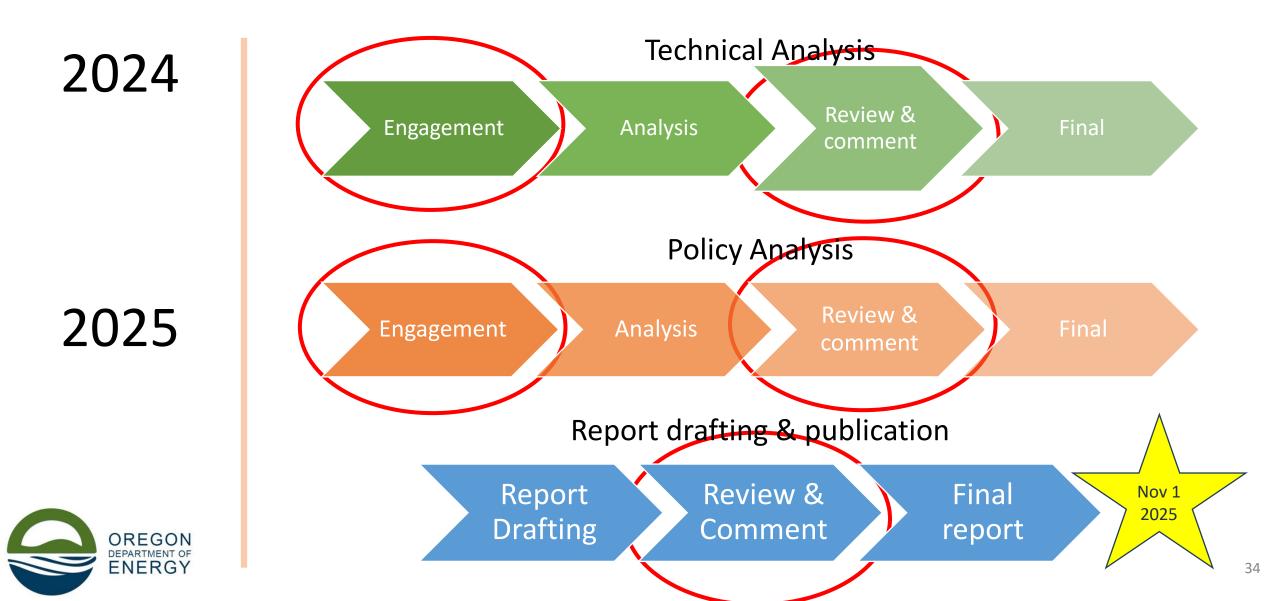
## **Community Meetings**

• In person in different parts of the state

# **Open to Options**

 Share other mechanisms of outreach or engagement that we should consider! <u>energy.strategy@energy.Oregon.gov</u> 33

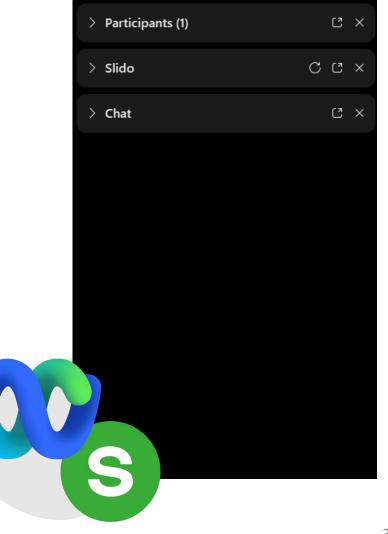
### FEEDBACK THROUGHOUT THE PROCESS



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### **RESOURCES:**

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

ODOE's website: <a href="https://www.oregon.gov/energy">www.oregon.gov/energy</a>

Contact us: energy.strategy@energy.Oregon.gov

Edith Bayer: edith.bayer@energy.Oregon.gov