Oregon
Tina Kotek, Governor

OREGON DEPARTMENT OF ENERGY

550 Capitol St. NE
Salem, OR 97301
Phone: 503-378-4040
Toll Free: 1-800-221-8035
FAX: 503-373-7806
www.oregon.gov/energy

AGENDA

Title: Land Use and Natural Resources Working Group – Oregon Energy Strategy

Date: August 12, 2024, 1 pm – 3 pm

Objectives:
The purpose of this Working Group is to:

- Understand foundational data sources that will inform the energy strategy and ask clarifying questions.
- Provide expertise and feedback on key assumptions related to land use and natural resources.
- Discuss "what if" questions and priorities for a scenario analysis that can help illuminate trade-offs of different clean energy pathways.
- Foster transparency in the Energy Strategy technical analysis through information sharing on the scope, data sources, and development process of the modeling tools.

Land Use and Natural Resources Working Group Members:

NW Natural	Mary Moerlins
Cascade Natural Gas	Alyn Spector
Oregon Department of Fish and Wildlife	Jeremy Thompson
Oregon Department of Agriculture	Jim Johnson
Morrow County	Tamra Mabbott
Benton County	Petra Schuetz
League of Oregon Cities	Nolan Plese
Oregon Hunters Association	Mike Totey
1000 Friends of Oregon	Andrew Mulkey
Oregon Cattlemen's Association	Jack Southworth
Columbia Riverkeeper	Kelly Campbell
Kalmiopsis Audubon Society	Ann Vileisis
Sunstone Energy	Amy Berg Pickett
Wasco County	Kelly Howsley-Glover
Portland General Electric	Keith Johnson
Renewable Northwest	Emily Griffith,
Rancher	Michael Eng
Oregon Department of Forestry	John Tokarczyk
Umatilla Electric Cooperative	Alec Shebiel
The Nature Conservancy	Lauren Link
Business Oregon	Michael Held
Department of State Lands	Nataliya Stranadko
Department of Land Conservation and Development	Jon Jinings

Agenda

Topic	Who	Time
Welcome	Ruchi Sadhir, ODOE	5 min
Land Use and Natural Resource screens considered in the Oregon Energy Strategy reference scenario	Michael Freels, ODOE	30 min
Guided discussion of key reference scenario assumptions: • What level of VMT savings should be assumed? • What EJ and Equity concerns should be included in an analysis of modeling results? • What would be valuable to learn from this technical analysis?	Michael Freels, ODOE Eileen Quigley, Clean Energy Transition Institute	30 min
Guided discussion on alternative scenarios/levers: • "What if" scenarios • What are your Land Use and Natural Resources priorities and how might they be reflected in a scenario analysis?	Michael Freels, ODOE Eileen Quigley, Clean Energy Transition Institute	30 min
Public Comment Period	Michael Freels, ODOE	20 min
Wrap up and Next Steps	Ruchi Sadhir, ODOE	5 min

Oregon Department of **ENERGY**

Oregon Energy Strategy
Land Use and Natural Resources Working Group

Michael Freels and
Ruchi Sadhir
August 12, 2024

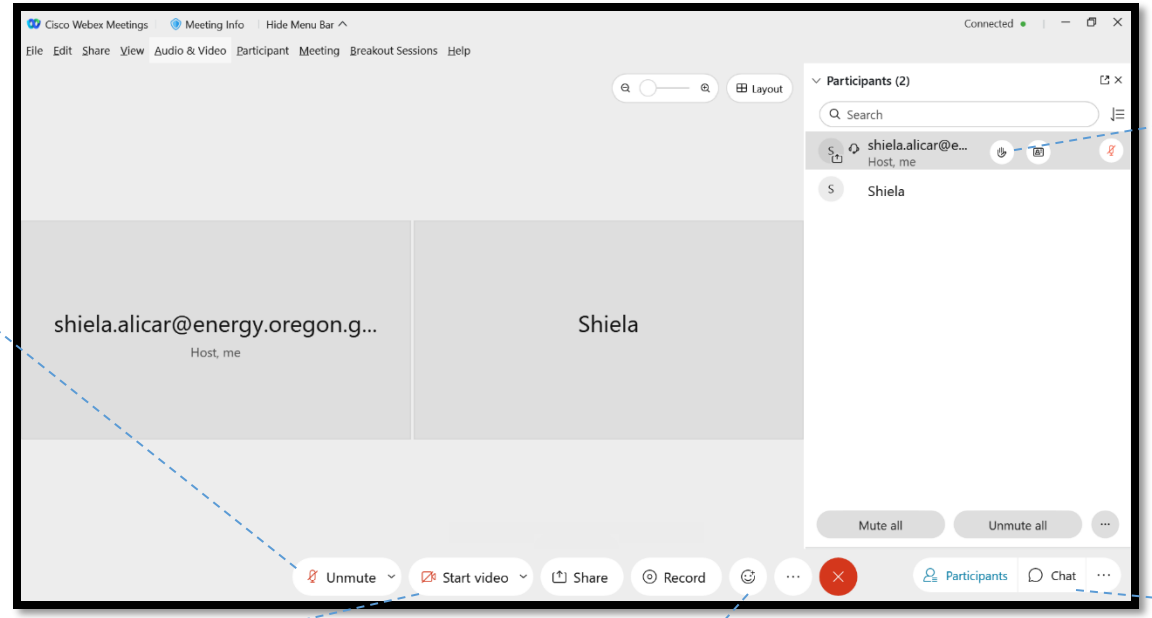
OREGON DEPARTMENT OF ENERGY

USING WEBEX

Audio Options

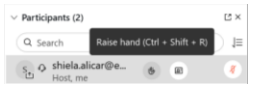
Mute — *Microphone On*

Unmute — *Microphone Off*



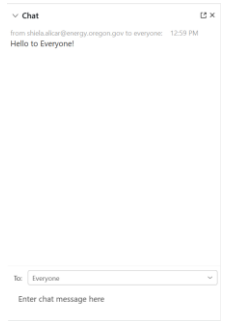
Second Raise Hand Option

You can also click on the hand next to your name in the Participant list to raise your hand.



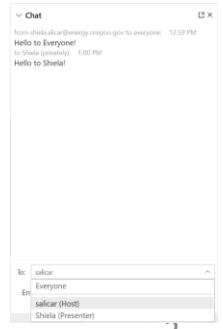
Click on Lower hand when you are done.

Chat



You can chat to Everyone in the meeting.

You can send a private message to the Host or Presenter (or all Panelists when there is a Panel).

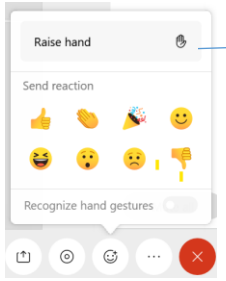


Video Options

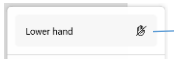
Stop video — *Webcam On*

Start video — *Webcam Off*

Reactions



Click to Raise your hand.



Click on Lower hand when you are done.

PURPOSE OF THIS WORKING GROUP

- Understand foundational data sources expected to inform starting point for analysis and ask clarifying questions.

- Provide expertise and feedback on key assumptions related to land use and natural resources out to 2050.

- Discuss “what if” questions to inform scenarios that can help us understand the trade-offs of different clean energy pathways.

Note: focus is on the modeling; discussion of policy recommendations will take place in early 2025.

OREGON DEPARTMENT OF ENERGY

AGENDA

1:00 – 1:05	Welcome	Ruchi Sadhir, ODOE
1:05 – 1:35	Land Use and Natural Resource screens considered in the Oregon Energy Strategy reference scenario	Michael Freels, ODOE
1:35 – 2:05	Guided discussion of key reference scenario assumptions	Michael Freels, ODOE Ruby Moore-Bloom, CETI
2:05 – 2:35	Guided discussion on alternative scenarios/levers	Michael Freels, ODOE Ruby Moore-Bloom, CETI
2:35 – 2:55	Public Comment Period	Michael Freels, ODOE Ruby Moore-Bloom, CETI
2:55 – 3:00	Wrap up and Next Steps	Ruchi Sadhir, ODOE

Note: ODOE will open the floor for comments and questions from observers if time permits. Comments and questions can be submitted to: https://odoe.powerappsportals.us/en-US/energy-strategy/

INTRODUCTIONS

- If you couldn't join our last meeting, please share the following with the group **via chat**:
  - name
  - affiliation
  - geographic location you represent
  - New Ice breaker

OREGON DEPARTMENT OF ENERGY

Land Use and Natural Resource Assumptions / Data

OREGON DEPARTMENT OF ENERGY

Power of Place – West Screens

Categories of Exclusion	Definition of Category	Examples	Biomass
Level 1	Legally protected: Areas with existing legal restrictions	National Wildlife Refuges, National Parks, Marine Sanctuaries, Military Training Areas	All feedstocks included, exclude potential supply from conservation reserve program land
Level 2	Administratively protected: Level 1 + areas with existing administrative and legal designations where state or federal law requires consultation or review and lands owned by non-governmental organizations (NGOs) on which there are conservation restrictions.	Critical Habitat for Threatened or Endangered Species, Sage Grouse Priority Habitat Management Areas, vernal pools and wetlands, tribal lands	No net expansion of land for purpose-grown herbaceous biomass crops. Specifically, land available for herbaceous biomass crops (miscanthus and switchgrass) is limited to the share of land currently cultivated for corn that is eventually consumed as corn ethanol, which is phased out in all net zero scenarios by 2050.
Level 3	High conservation value: Level 1 + Level 2 + areas with high conservation value as determined through multi-state or ecoregional analysis (e.g., state, federal, academic, NGO) and lands with social, economic, or cultural value.	Prime Farmland, Important Bird Areas, big game priority habitat and corridors, TNC Ecologically Core Areas, “Resilient and Connected Network”	Same as Level 2

https://www.nature.org/en-us/what-we-do/our-priorities/tackle-climate-change/climate-change-stories/power-of-place/

Nexus to the Technical Model

- **In real life:**
  - Sites for potential renewable energy projects are considered on a case-by-case basis through existing processes with legal requirements and public feedback
  - Project developers consider a variety of environmental, physical and regulatory factors that can influence the amount of investment – time, financing, contracting – required for project development.
- **Scenarios in the Model**
  - Not a prediction - Uses forecast of future energy demand to pick the least-cost group of energy resource supply to meet that demand
  - **How much** and **what type** of energy resources that might be available for that supply could be influenced by potential land that might be available or not available for energy projects

OREGON DEPARTMENT OF ENERGY

Nexus to the Technical Model (Continued)

- Scenarios in the Model
  - How much and what type of energy resources is **not location specific** in the model
  - Does not to predetermine or judge site suitability or specific locations for renewable energy development – rather it uses a more generic how much and what type of energy resources as an input to determine the potential options for energy supply in the future
- Reference Case Scenario – Reasonable assumptions about areas where you are seeing projects being approved or built today (to compare "what if" scenario with)
- “What If” Scenario - Potential future where there are more restrictions on development and you would assume more evaluation of land use and natural resources or additional legal prohibitions

OREGON DEPARTMENT OF ENERGY

ORESA Tool

- https://tools.oregonexplorer.info/OE_HtmlViewer/Index.html?viewer=renewable

Discussion Questions

OREGON DEPARTMENT OF ENERGY

TRANSPORTATION WORKING GROUP

Should a target of a 20 percent Vehicle Miles Traveled per capita reduction by 2050 be included in the reference scenario?

- Importance of VMT
- Historical trends
- Reasonable assumption for the reference scenario
- Alternate scenario

OREGON DEPARTMENT OF ENERGY

DISCUSSION QUESTION

The Oregon Transportation Plan has a target of a 20 percent Vehicle Miles Traveled per capita reduction for passenger vehicles by 2050.

Based on current and future spatial planning activities, what level of VMT savings should be assumed in the reference scenario?

OREGON DEPARTMENT OF ENERGY

ENVIRONMENTAL JUSTICE AND EQUITY WORKING GROUP

Highlights from their Working Group Meeting

- Uncertainty that the **current disparities** will not change in the energy transition
- Identify need to **distinguish between single family versus multi-family**, renter versus homeowner when thinking about energy wallet
- Interest in understanding how **granular the approach can be**, rural is different from coast to Eastern Oregon

OREGON DEPARTMENT OF ENERGY

DISCUSSION QUESTION

What environmental justice and equity concerns related to land use and natural resources need to be evaluated in an analysis of modeling results to inform policy recommendations?

OREGON DEPARTMENT OF ENERGY

DISCUSSION QUESTION

After the modeling is complete, the analysis could include more detailed consideration of

- Siting impacts
- Water consumption
- Biomass consumption

What would be valuable to learn from this technical analysis?

OREGON DEPARTMENT OF ENERGY

What if…?

OREGON DEPARTMENT OF ENERGY

Guided Discussion on Alternative "What If" Scenarios/Levers

- What if there is much more energy efficiency, distributed energy, and load flexibility? How much less would we need to build?
- What if Oregon made a policy decision to construct 3GW of offshore wind?
- What if electrification of transportation and heating is delayed?
- What if transmission can not be built in Oregon?
- What if Oregon sets a more ambitious economy-wide GHG target?

OREGON DEPARTMENT OF ENERGY

Public Comment

OREGON DEPARTMENT OF ENERGY

PUBLIC COMMENT

- We are interested in hearing your Energy Strategy interests, priorities, and expectations.
- Please raise your hand if you would like to ask a question or provide a comment.
- Please be brief as we want to hear from as many people as we can in the time available.

OREGON DEPARTMENT OF ENERGY

Wrap up and Next Steps

OREGON DEPARTMENT OF ENERGY

OPPORTUNITIES FOR FURTHER ENGAGEMENT

Provide Written Public Comment

- Written public comment can be submitted at: https://odoe.powerappsportals.us/en-US/energy-strategy/
- Written public comment is open until August 31

OREGON DEPARTMENT OF ENERGY

OREGON DEPARTMENT OF ENERGY

Thank you

RESOURCES:

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

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

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

Public Comment Portal: https://odoe.powerappsportals.us/en-US/energy-strategy/