

# BOEM

Bureau of Ocean Energy  
Management

## BOEM Oregon Outer Continental Shelf (OCS) Renewable Energy Task Force Meeting Seven

Friday, September 27, 2019  
8:00 am – 12:30 pm

Remote Attendance: <http://kearnswest.adobeconnect.com/boemfacilitation/>  
Follow instructions to receive a call to be joined by audio.



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## Welcome

- **Joan Barminski, Regional Director,  
BOEM Camarillo, California Office**
- **Jason Miner and Kristen Sheeran,  
Oregon Governor's Office**

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## Meeting Purpose and Objectives

- **Purpose:** Begin the conversation among federal, state, local and tribal governmental bodies regarding potential renewable energy activities on the Outer Continental shelf offshore Oregon.
- **Objectives:**
  - Gain a common understanding of current and potential future processes regarding offshore wind development in Oregon.
  - Begin an open conversation on potential approaches to offshore wind planning in Oregon.
  - Discuss how Task Force members and stakeholders might engage throughout the process.



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## Introductions

**Task Force members, please state your  
name and agency/organization**



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## Agenda

8:00 am – 8:30 am	Registration	
8:30 am – 9:00 am	Welcome Introductions Ground Rules Opening Remarks and Meeting Purpose	Joan Barminski, BOEM Jason Miner, Governor's Office Kristen Sheeran, Governor's Office Sylvia Ciborowski, Kearns & West
9:00 am – 9:35 am	State of Oregon Overview	Jason Miner, Governor's Office Kristen Sheeran, Governor's Office Andy Lanier, DLCD
9:35 am – 10:10 am	BOEM Overview	Whitney Hauer, BOEM
10:10 am – 10:25 am	Break	
10:25 am – 12:00 pm	Discussion on Potential Approaches to Offshore Wind Planning <ul style="list-style-type: none"><li>• Task Force member interests related to offshore wind planning in Oregon</li><li>• Communications and outreach with Task Force and stakeholders</li></ul>	Whitney Hauer, BOEM Sylvia Ciborowski, Kearns & West Task Force Members
12:00 pm – 12:20 pm	Action Items and Next Steps	Whitney Hauer, BOEM Task Force Members
12:20 pm – 12:30 pm	Task Force Closing Comments	Task Force Members
12:30 pm	Official Meeting End	Sylvia Ciborowski, Kearns & West
12:35 pm – TBD	Public Input Opportunity	Sylvia Ciborowski, Kearns & West



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## Ground Rules

- Honor the agenda
- Ask questions to understand, and avoid judgement
- Speak from your perspective
- Bring up concerns and ideas early
- Cell phones on silent and limit side conversations
- Share the air and use tent cards to signal you want to speak
- Please turn microphones off when you are not speaking
- Public comment begins at 12:35 pm
- For remote participants :
  - Asking questions and making comments by phone during the official meeting is limited to Task Force members
  - Task Force members: Please stay on mute when not speaking



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# State of Oregon Overview



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## State of Oregon Overview

# Questions & Answers

**Virtual Task Force Members:** If you would like to ask a question, please “Raise your Hand” in the webinar, or text (916) 337-3098 and include your first and last name in the body of the text message.



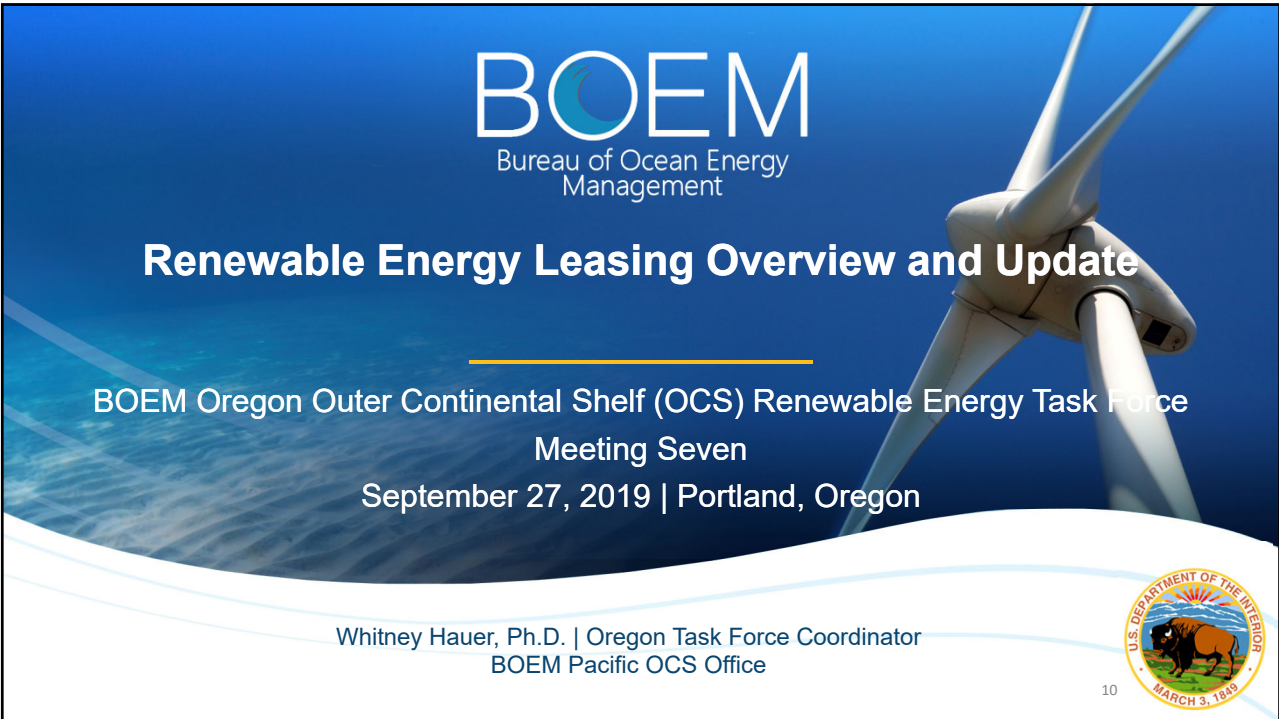
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## Agenda

- **Overview: BOEM & Renewable Energy Authorization Process**
- **Snapshot of BOEM Nationwide Renewable Energy Activities**
- **BOEM Oregon OCS Renewable Energy Task Force**
- **Unsolicited Lease Requests in Oregon: PacWave South & WindFloat Pacific Pilot Project**
- **Oregon Offshore Wind: Technology & Cost Overview**
- **BOEM Planning Phase: Opportunity for Offshore Wind Planning with Task Force**



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## BOEM Overview

- **Bureau within the U.S. Department of Interior**
- **Mission & Authority**
  - Manage development of U.S. Outer Continental Shelf (OCS) energy and mineral resources in an environmentally and economically responsible way
  - Outer Continental Shelf Lands Act of 1953 (OCSLA) as amended, including amendments per Energy Policy Act of 2005
- **OCS Jurisdiction in the Pacific**
  - Federal waters: Beyond 3 nautical miles (nm) from shore to 200 nm
  - Does not include: National Marine Sanctuaries, Parks, Wildlife Refuges, or Monuments
- **Renewable Energy Leases**
  - Commercial, limited & research leases
  - Competitive & non-competitive process
- **Environmental: Science & Analysis**
  - Studies to inform policy decisions on energy development
  - National Environmental Policy Act (NEPA) documents



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## BOEM Pacific OCS Office Environmental Studies

BOEM develops, funds, and manages scientific research to inform policy decisions on the development of energy and mineral resources on the OCS.

Research Areas	All Pacific Studies	Ongoing Pacific Studies
Physical Oceanography	1973 – 2019	<i>Conducting Organizations</i>
Atmospheric Sciences	> 330 Studies Completed > \$150 M	USGS (10 studies) 32%
Biology	28 Ongoing Studies \$22.4 M	Universities (10 studies) 32%
Protected Species	16 Renewable Energy \$13.7 M	NOAA (6 studies) 19%
Social Sciences & Economics	5 Conventional Energy \$2.8 M	DOE (2 studies) 7%
Submerged Cultural Resources	7 Both Energy Programs \$5.9 M	USFWS (1 study) 3%
Environmental Fates & Effects		In-house (1 study) 3%
		Other (1 study) 3%

Some studies conducted by multiple organizations.  
6/24/2019

Selected Oregon Research: <https://www.boem.gov/Selected-BOEM-Research-Renewable-OR/>



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## OCS Renewable Energy Authorization Process



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## BOEM Nationwide Renewable Energy Activities (Atlantic & Pacific OCS)

- **Task Forces**
  - CA, DE, FL, HI, MA, MD, ME, NC, NJ, OR, RI, SC
- **Planning**
  - Activities in CA, HI, NC, NY Bight, SC
- **Leasing**
  - 15 Commercial wind energy leases in Atlantic
- **Site Assessment Plans (SAP)**
  - 7 Approved
- **Construction and Operations Plans (COP)**
  - 4 Processing
  - 5 Expected within next 12 months

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## BOEM Oregon Outer OCS Renewable Energy Task Force

### Overview

- Established in 2011 per request from former Governor Kulongoski
- Six meetings held from 2011 through 2014
- Provides coordination with federal, state, local & tribal governments
- Provides input to BOEM renewable energy leasing decisions

### Logistics

- Meetings are open to the public
- Meeting agenda, attendees & materials are posted: <https://www.boem.gov/Oregon/>
- Suggest posting membership list & charter to webpage & livestream future meetings
- Suggest holding future meetings along the coast

### Charter

- Share information
- Coordinate approval & review processes for OCS renewable energy projects
- Identify information needs
- Discuss & identify opportunities

### Federal Advisory Committee Act (FACA)

- Task Force is not chartered under FACA
- Membership is restricted to federal, state, local & tribal governmental bodies

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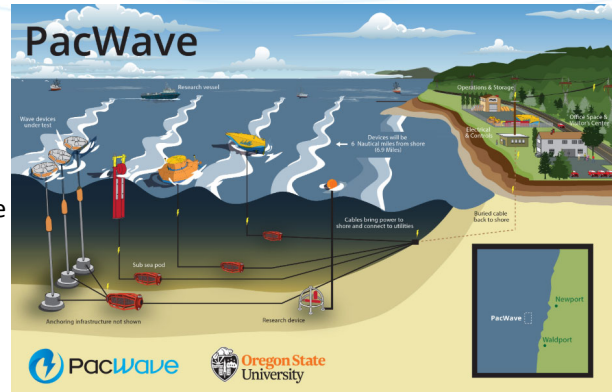
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## Oregon Marine Hydrokinetic (MHK) Energy Project

### Oregon State University (OSU) PacWave South Proposed Project

- Grid-connected test facility for up to 20 wave energy converters
- Power generation up to 20 megawatts (MW)
- Four subsea transmission cables & one auxiliary cable
- Approximately 2.65 square miles & 6 nm offshore Newport
- Timeline:
  - Commence construction in Spring 2020
  - Commence operations in 2022



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## MHK Shared Federal Responsibility for Permitting and Leasing

### Federal Energy Regulatory Commission (FERC)

#### Issues license for construction & operation

- **June 2014** – FERC approved use of Alternative Licensing Process
- **February 2017** – BOEM is cooperating agency for NEPA documents
- **May 2019** – FERC received Final License Application
- **August 29, 2019** – FERC Notice:
  - Accepted application for filing
  - Public comment period until **September 30, 2019**
  - OSU's reply to comments due **October 14, 2019**
  - FERC may issue the Environmental Assessment (EA) in Nov 2019
- **Information in FERC eLibrary, Docket P-14616**

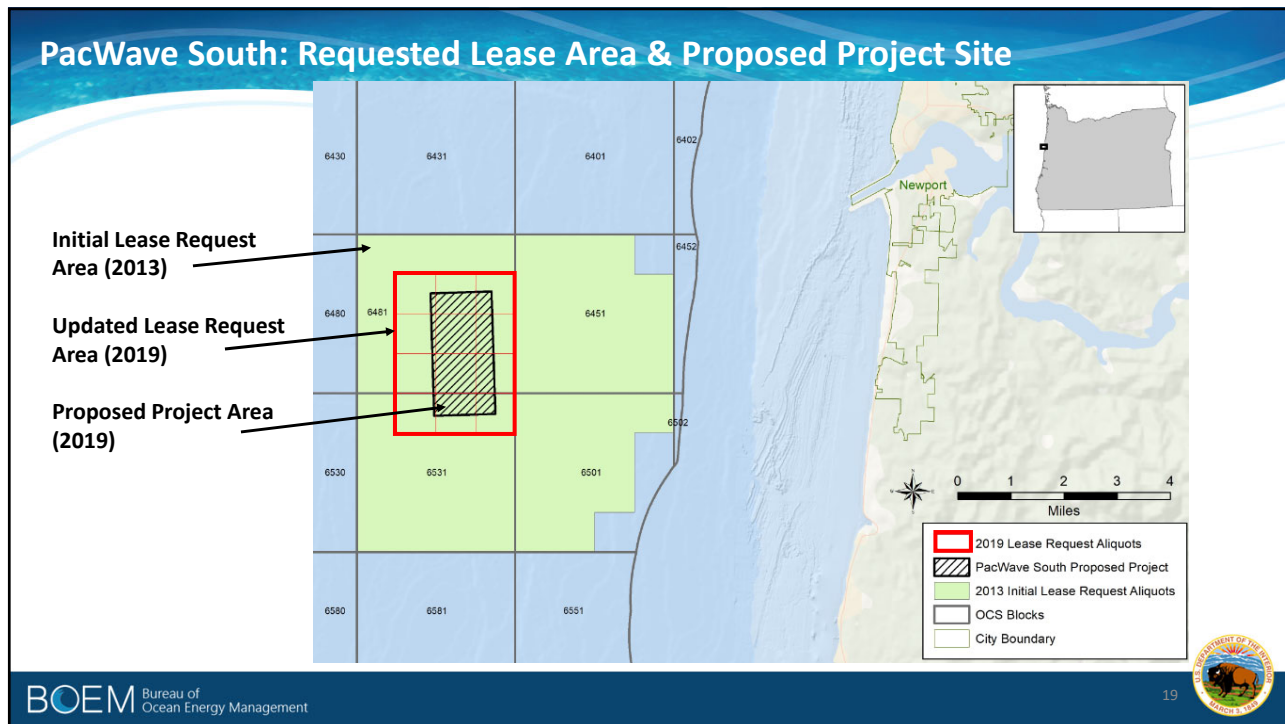
### BOEM

#### Issues lease for site area

- **June 2013** – Received unsolicited request for research lease
- **June 2014** – Issued Determination of No Competitive Interest (DNCI)
- **May 2019** – OSU provided BOEM updated request on lease area size



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## Oregon Offshore Wind Project


### Historical: WindFloat Pacific Pilot Project

- **2013** – Principle Power Inc. (PPI) submitted an unsolicited lease request to BOEM
- **2014** –
  - BOEM issued DNCI
  - BOEM issued Notice of Intent (NOI) to prepare an EA
  - BOEM initiated outreach with commercial fishing
- **2015** – PPI was unable to secure a Power Purchase Agreement with Oregon utilities
- **2016** – U.S. Department of Energy (DOE) closes out demonstration project award funding
- **2018** – BOEM determined the DNCI was no longer valid; no BOEM lease issued



Principal Power WindFloat prototype towed in Portugal

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## Floating Offshore Wind in Oregon: Potential Technology

### Oregon:

- 97% of Oregon's offshore wind resource is in water depths > 60 m, suggesting floating offshore wind as primary technology

(NREL Technical Report: Oregon Offshore Wind Site Feasibility and Cost Study, in press)



30 MW Hywind Scotland Floating Wind Farm (Equinor)



NREL

### Globally:

- 8 floating offshore wind projects (approximately 46 MW) installed
- 14 projects (200 MW) under construction, having achieved financial close or regulatory approval

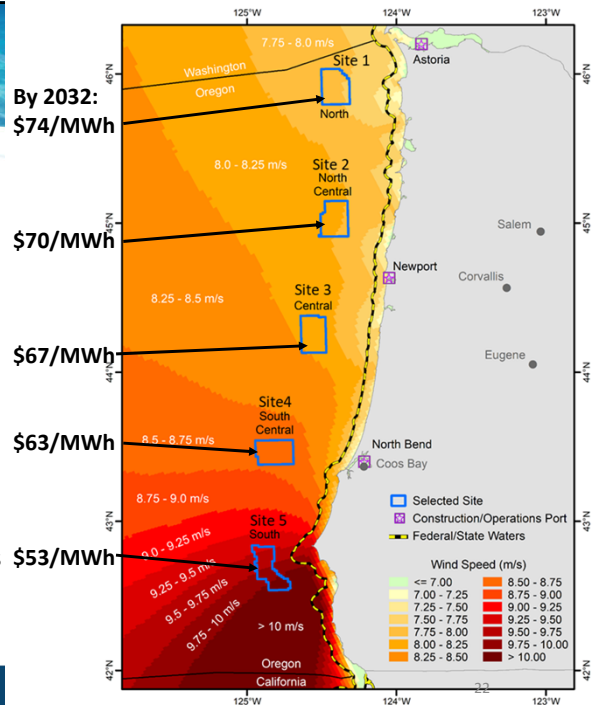
(DOE Report: Offshore Wind Technologies Market Report, 2019)



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## Oregon Offshore Wind Cost Study

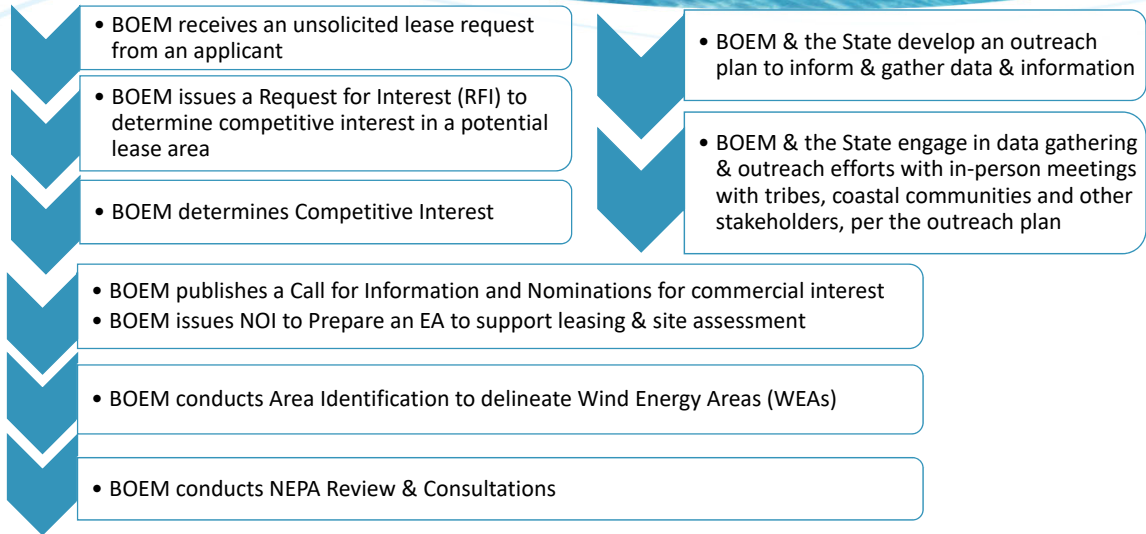
- BOEM funded the National Renewable Energy Laboratory (NREL) to analyze floating offshore wind cost at 5 sites where commercial-scale projects are technically viable
- Geographically dispersed sites used for modeling costs; not a product of stakeholder engagement or a marine spatial planning
- Used upgraded Offshore Regional Cost Analysis (ORCA) model
- Modeled costs at Oregon study sites ranged from \$53/megawatt-hour (MWh) to \$74/MWh for floating wind technology by 2032
- Cost declines due to recent commercial and technological improvements
- Levelized cost of energy: Full-scale commercial project costs were 3 X lower than 24 MW PPI WindFloat Pacific Pilot Project



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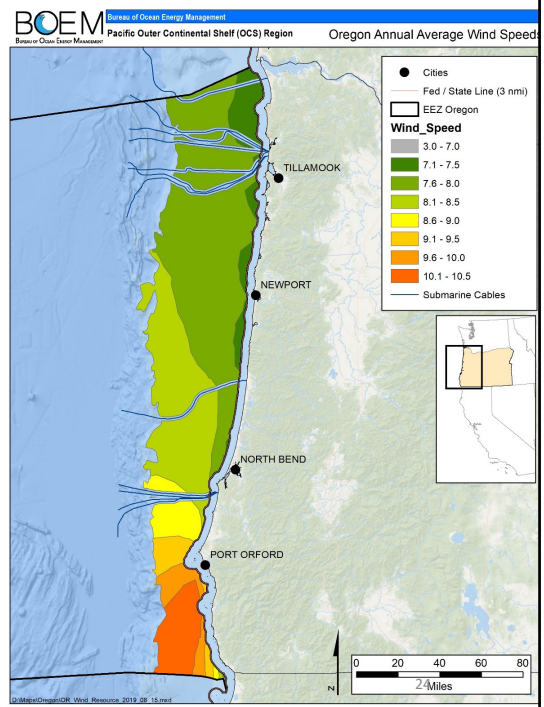
## Planning & Analysis: Example Process for Competitive Commercial Offshore Wind Project



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## Discussion Today



### Potential Offshore Wind Planning in Southern Oregon



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BOEM Pacific OCS Office


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**BOEM Overview**

# Questions & Answers

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# Discussion on Potential Approaches to Offshore Wind Planning



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## What Does a Planning Approach Look Like?

- **Develop an outreach and engagement plan**
- **Clarify outreach and engagement goals and objectives**
- **Identify outreach groups**
  - Coastal communities
  - Fishing groups
  - Non-governmental organizations (NGOs) and advocacy groups
  - Federal and state agencies
  - Data and science experts
  - Tribes
  - Elected officials
- **Engage with identified groups; gather data, information and comments through meetings and various activities in coastal communities**
  - Public meetings and open houses
  - Focused discussion groups
  - Meetings with existing organizations
  - Webinar updates
- **Put data and information in a publicly accessible portal**



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## Discussion on Potential Approaches to Offshore Wind Planning in Oregon

### Ultimate Question for Today's Conversation:

Do you see the planning approach as the right approach for Oregon, and do you support moving forward with a planning process?

### Questions for all Task Force Members:

- When you think about offshore wind planning in Oregon, what is your vision of success?
- What is your hope for the Task Force and its role in offshore wind in Oregon?



## Task Force Closing Comments and Meeting End

- **Task Force Members Closing Comments:**
  - Provide closing thoughts and impressions
- **Public Input Opportunity**
  - Begins at 12:35pm for in-person and virtual members of the public
  - Task Force Members are invited to stay and listen to public comment



# Public Input Opportunity



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## Public Input Opportunity

- **Interested individuals are encouraged to provide input on the topics discussed by the Task Force today**
- **Your speaking time may be limited to 1-3 minutes depending on the number of anticipated speakers**
- **Virtual Participants:** If you would like to provide your input, please “Raise your Hand” in the webinar, or text (916) 337-3098 and include your first and last name in the body of the text message
- **In-Person Participants:** Please submit a “Public Speaking Card” if you have not done so already. Facilitator will read the names from the cards in the order in which they were received. Members of the public participating by webinar/phone will also be placed in the queue



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