



Roundtable Offshore Wind Energy Roadmap

December 19th, 2024



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Oregon Coastal
Management Program

Questions? Public Comment?

At any time (during a meeting or in between) submit a question or public comment:

- **QR Code**
- Or via our Google Form:
<https://forms.gle/Mgl4vhn4VYa8YEwYA>
- Or email:
dlcd.OSVVRoadmap@DLCD.oregon.gov



Welcoming & Agenda Overview

- Welcome and Updates

Agenda Overview:

- Reviewing the “Visions” from Nov 19
- RT members breakout conversations: Exploring Key Effects and Development Pathways
 - Environmental Effects: Listing the effects of concern
 - Social, Economic, Community Effects: Listing the effects of concern
 - Path to Development: Listing the path elements
- Key Dilemmas: Where do we need a deep dive?
- Public Comment Part II & Questions

Upcoming meetings:

January 9, 2025- Virtual

February 20-21, 2025- (Likely) Lincoln City

March 31, 2025- (Likely) Brookings

April 15, 2025- (Likely) Virtual/Or in-person

May 15, 2025- North Coast TBD

June 18, 2025- (Likely) Florence (open to moving to the 17th?)



Work stream	December	January	February (1.5-d)	March	April	May	June
					PUBLIC MEETING		PUBLIC MEETING
FORMATION	Roadmap Outline (FINAL) Roadmap Charter (FINAL)						
VISIONS; INFO., DATA, RESEARCH		Progress on visualizing future vision paths					
	Bring key info back	Bring key info back	Adaptive management (AM) approaches	AM recommendations and strategic steps			
ENVIRON. EFFECTS (EE)	EE: Concerns, uncertainties, information needs, and perceived risks	State of the Science and Research Agenda Paths (tentative)	EE: Existing policies and processes to address effects of concern; Exit ramps; Policy gaps and options to address	EE: Policy recommendations and strategic steps			
HUMAN EFFECTS (HE)	HE: Major uncertainties and perceived risks		HE: Existing policies and processes to address effects of concern; Policy gaps and options to address	HE: Policy recommendations and strategic steps			
PATH TO DEVELOPMENT	Major needs, uncertainties, and perceived risks	Focus on energy policies (tentative)	Energy System Policy Interconnections and Options – Alternatives to generation?	Policy recommendations and strategic steps			
STRATEGY ELEMENTS	Outline: Strategic Element Planning Working Group Establishment				Report out 1 from Working Groups (Strategic Planning Elements)	Report out 2 from Working Groups (Strategic Planning Elements)	
		WkGrp 1: Mtg 1	WG 1: Mtg 2	WG 1: Mtg 3	WG 1: Mtg 4		
		WkGrp 2: Mtg 1	WG 2: Mtg 2	WG 2: Mtg 3	WG 2: Mtg 4		
		WkGrp 3: Mtg 1	WG 3: Mtg 2	WG 3: Mtg 3	WG 3: Mtg 4		
		WkGrp 4: Mtg 1	WG 4: Mtg 2	WG 4: Mtg 3	WG 4: Mtg 4		
WORK AND ACTION PLANNING			ENGAGEMENT: Principles of effective engagement and Tribal consultation	ENGAGEMENT: Policy recommendations and strategic steps	Offshore Wind Engagement Expectations and Local Government Roles	Build a Work Plan Short/Medium/ Long-Term actions	Work Plan: Short/Medium/ Long Term Actions
ROADMAP RECOMM. & DOCUMENT DRAFTING					Putting It All Together: Craft and Refine Draft Recommendations	Review Draft Recommendations	Review comments on draft recommendations Next Steps



Upcoming Meetings

January 9th - Proposed change to virtual only

- Morning (9-12): Roundtable catch-up and State of the Science
- Afternoon (1-3): Focus on Energy Policy and Strategy Connections

February 20th - Looking at central/north coast to coincide with offshore wind conference in Portland on 2/18. Potential 1.5 day meeting?

March 31 - South coast (Brookings area). Potential 1.5 day meeting?

June - Considering slight change from 6/18 to 6/17. Conflicts?





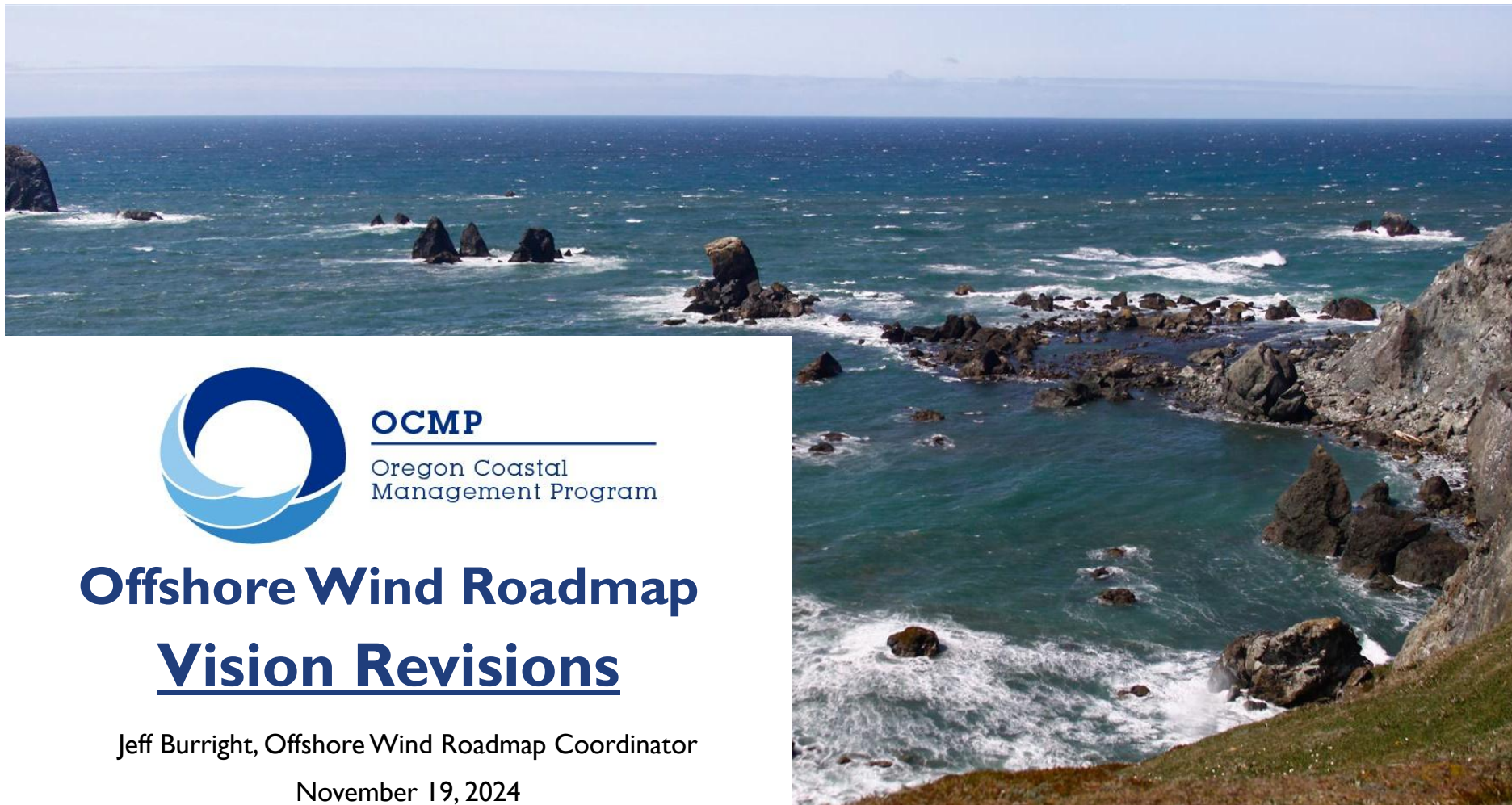
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Offshore Wind Roadmap Vision Revisions

Jeff Burrig, Offshore Wind Roadmap Coordinator

November 19, 2024



Roadmap Vision Revisions

- Reflections after the November meeting?
- Things you wish you'd said about the future outcomes?
- Things you wish you'd said about the path and waypoints?



- Energy Strategy: Do we need the power? (who is 'we'?)
- Complete "Before" picture of CA Current
- PEIS sets cumulative limit of growth?
- NEPA scoping IDs study needs early
- State-led spatial planning IDs no-go vs. 'maybe' areas
 - Critical species/habitats
 - Critical uses
 - Critical cultural views
- Framework for legal enforceable agreements
- Tribal communities engaged
- Shore landing coordination
- Engagement and education
- Port infrastructure & supply chain ready process
- Define go/no-go criteria
- Fisheries effects known

Planning/Siting

Leasing

- Pilot project first?
- Critical conversations organized (ID affected Tribes, communities, fisheries)
- Community impact defined
- "Welcome" from state
- Local ownership opps?
- Uncertainties and risks managed
 - Research (pre decision)
 - Mitigation
 - Adaptive Management with "decision rules"

- Effects reasonably well known. Uncertainties and risks managed
 - Research (before decision)
 - Mitigation
 - Adaptive Management with "decision rules"
- Clear accountability in event of harm, incl. bonding
- Decommissioning plans 'return to nature'
- "Terms of sacrifice" accepted (compensation?)
- Enforceable benefit agreements (e.g., housing, workforce, fishing industry)
- Tribal concerns addressed
- Joint agency review

Constructing and Operating

- Supply chain developed
- Power purchase agreements
- Clear accountability and mitigation
- Ops/Maintenance capacity planned
- Enforceable benefit agreements working
- Adaptive Management working
- "Decision Rules" can handle surprises
 - "Late Exits"
 - If lease not renewed after 30 yrs, harms can be reversed or mitigated

Permitting

EXIT

EXIT

EXIT

Questions? Public Comment?

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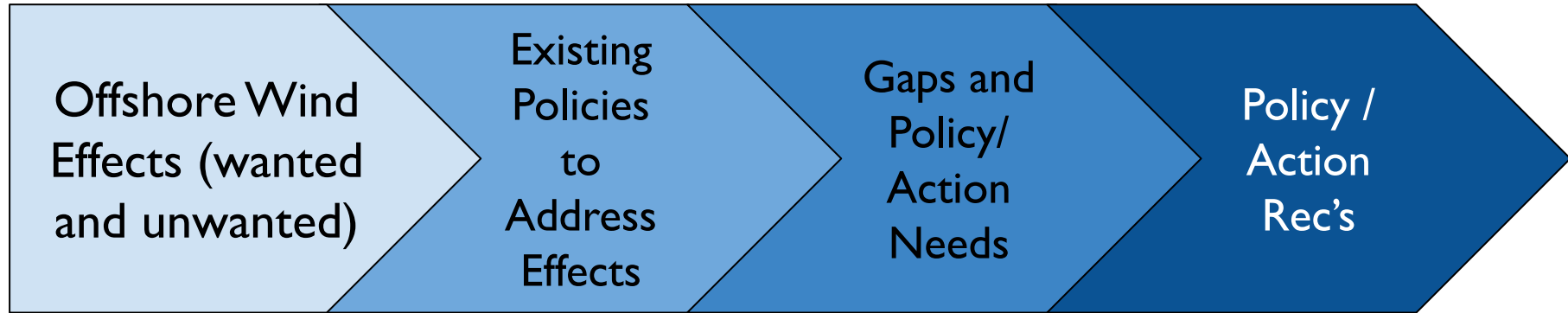


Breakout Groups Conversations



Environment Effects:

Listing the effects of concern



- Gather all the known effects of interest to the Roadmap
- Start thinking about information needs and when info is needed
- Consider when and how effects should be addressed (e.g., via research, planning, policy standards, adaptive management plans)



Where did this list come from?

- PacWave permit scoping process
- Public and agency comments during the 2024 federal consistency review of BOEM Leasing
- Section 3 of the Offshore Wind Roadmap Considerations document (2023)
- Responses to the Roadmap Roundtable online survey conducted in December 2024
- Individual staff conversations and research into potential offshore wind effects, in support of future federal consistency reviews.



Effects Table in the Meeting Packet

Effect	Effect Details	Primary Info Sources <i>(Type and stage of the process)</i>	Data Needs/ Uncertainties	Corresponding Enforceable Policies
GEOLOGIC AND SOILS RESOURCES				
WATER RESOURCES				
AQUATIC RESOURCES				
THREATENED AND ENDANGERED SPECIES, CRITICAL HABITAT AND ESSENTIAL FISH HABITAT				
HAZARDS EFFECTS				



What we're looking for:

- What effects or nuances are missing?
- Are there effects that need clarification?
- Do you disagree with including any effects?
- Which of these opportunities and risks:
 - Have the highest uncertainty?
 - Are of most concern (e.g., are major exit ramps)?



Environment Effects:

REPORT OUT NOTES

NOTES

- Group 1: reporting out: Julia
 - View shed impact from a cultural perspective
 - Broader habitat, upwelling
 - hazards, specially debris and fiberglass
- Group 2: reporting out: John
 - Geology: soils and connectivity from the ocean to land (tectonic plates and technology to be used to detect/monitoring of connectivity and cumulative effects)
- Group 3: moderator: Lisa
 - effects are broad from a research agenda perspective that need to be more detailed oriented to the ones that are more important
 - need to add a column to add who will be in charge to monitor
 - concerns versus priorities: to make a distinction between them; add the why?
- Group 4: moderator: Cynthia
 - beneficial effects of offshore wind development.
 - marine community composition: anchor chain scouring of ocean floor



Environment Effects:

REPORT OUT NOTES

NOTES

- Group 5: online group. moderator: Andy
 - geological and soil resources to be combined with the effects below
 - effects of underwater: to include invertebrates
 - upwelling impacts and reef productivity
 - impacts on projects impacts/structure
 - habitat section to be added
 - recreation: negative visitor experiences with the view shed
- Group 6: online group. moderator. Trevor
 - themes: temporal scale for each effect: ex. add a column on the geological effects
 - where and how to identify cumulative impacts (as an additional column?)
- Group 7: moderator: Eva
 - marine community composition section: to add more detail in each bullet point
 - cumulative effects ocean ecosystems regionally, from CA to OR
 - environmental impacts in the call areas, and the impact in the territorial sea. what would be different in those habitat, for example the geological effects.
 - physical changes from the development of wind turbines and the impact on ecology, the difference between the ecological impacts.
 - physical modeling and numerical modeling could be beneficial to include.



Morning Break

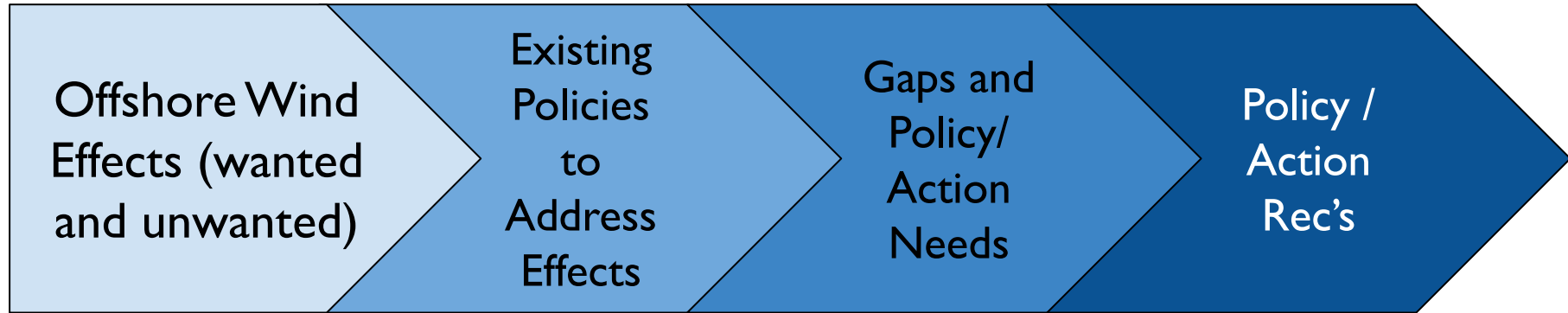


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Human Effects:

Listing the effects of concern



- Gather all the known effects of interest to the Roadmap
- Start thinking about information needs and when info is needed
- Consider when and how effects should be addressed (e.g., via research, planning, policy standards, adaptive management plans)



Effects Table in the Meeting Packet

Effect	Effect Details	Primary Info Sources <i>(Type and stage of the process)</i>	Data Needs/ Uncertainties	Corresponding Enforceable Policies
RECREATION AND LAND USE				
CULTURAL AND TRIBAL RESOURCES				
AESTHETIC RESOURCES				
SOCIOECONOMIC RESOURCES AND EFFECTS TO COASTAL USES				
HAZARDS EFFECTS				
UNCATEGORIZED EFFECTS				



Human Effects:

Listing the effects of concern

What we're looking for:

- What effects or nuances are missing?
- Are there effects that need clarification?
- Do you disagree with including any effects?
- Which of these opportunities and risks:
 - Have the highest uncertainty?
 - Are of most concern (e.g., are major exit ramps)?



NOTES

- Group 1: moderator: Andy, Marcus reporting out
 - Access and obstructions for commercial recreation vessels and emergency responders
 - Changing ocean patterns/currents effects on recreation (e.g., surfing)
 - Effect of attainment of Oregon energy targets (i.e., how much carbon offset happens with offshore wind, what is carbon balance with building vs operating; Thinking about that bigger concept of energy)
- Group2: Cynthia
 - Recreation and tourism (e.g., economic impacts during construction)- Can some of that recreation move to other
 - Cost of electricity to residents and businesses; Cost of utilities to develop
 - Positive economic effects- workforce, property tax base



NOTES

- Group 3: Lisa
 - Think globally about where
 - Accessibility of areas near turbines--Unclear who is impacted and who can use
 - Impact on displaced businesses
- Group 4: Trevor
 - This section might be able to balance some of the negative and positive impacts
 - In the energy market, there is choice; Choice could move toward other places or other energy sources (e.g., fossil fuels)--Leading to missed opportunities



NOTES

- Group 5: John
 - Interests of the port, various human communities, DoD
 - Overarching need is to address climate change (How to Zoom in on the information needed to inform Roundtable member decisions; we need to listen to everyone, and everyone's voice has something that can contribute)
 - Visualizations will help (Can DLCD do some of these? E.g., views, distance from shore, size and scale of projects)
 - Local workforce to take highly technical jobs (beginning in middle school that continues)
- Group 6: Jeff
 - Pulse of growth during construction and stress on housing (infrastructure that supports housing; and temp housing to support construction force and how to ensure that's quality enough to be reused)
 - Recreation opps
- Group 7: Eva
 - Communities, especially underserved, local Tribes, communities of color, benefit (e.g., TERO ordinances)
 - Tribal consultation (both issues and assumptions and that consultation is an ongoing process that centers power that Tribes should have--both voting and veto kids of power)



Public Comment - Part I

Please limit your comments to
the time available

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Lunch Break

Path to Development



Path to Development Memo

Listing elements of the path

What we're looking for:

- What elements are missing?
- Who should be responsible for each item on the path?
- Where is the most uncertainty?
- Where is the greatest concern or opportunity?



Path to Development Memo

Listing elements of the path

What we're looking for:

- Andy's Group:
 - What are the needs for additional resources? Power demand is forecasted to increase.
 - Let's refer to the energy strategy
 - Where will energy consumption occur?
 - CBA's are developer specific / BOEM should comply with state needs
- Eva's Group:
 - Energy conservation remains a priority.
 - CBA should be strongly considered
 - Microgrid option?



Path to Development Memo

Listing elements of the path

What we're looking for:

- Jeff's Group:
 - Impacts/effects and mitigation efforts should be addressed first.
 - Tribal involvement and consultation throughout process.
 - Community "benefits" go beyond CBAs, there are other options.
- Sofia's Group:
 - Note: Power purchase agreements still *do* involve risk.
 - Who will buy newly generated power? Taxpayer?
 - Pilot project: Very expensive, let's look to other advanced projects.



Path to Development Memo

Listing elements of the path

What we're looking for:

- Hui's Group
 - How much “dirty energy” is needed to make clean energy?
 - Developer input should be considered.
- Trevor's Group
 - “Dirty” energy may be displaced in other regions, not Oregon.
 - Even if energy goes elsewhere, how can Oregon still benefit.
 - What is the current “permit-load”?
 - Can tribes benefit from a DOE capacity accelerator program?
 - Pilot project is an expensive non-starter.



Key Dilemmas

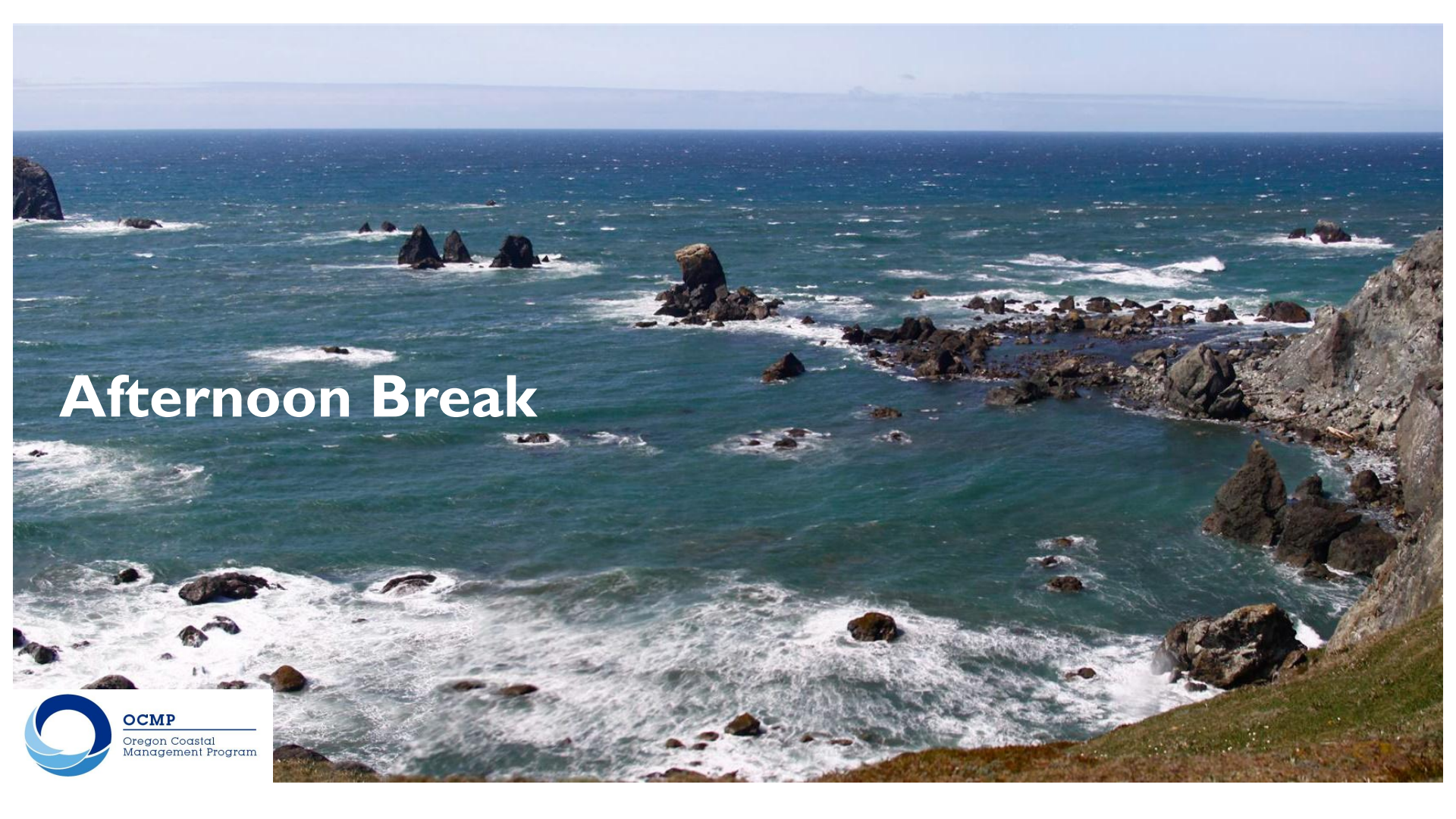


Key Dilemmas (from survey, n=23):

Where do we need a deep dive?

- We want a healthy ocean & we want renewable energy
 - Urgency for renewables & Time needed to understand and mitigate effects
 - What is “acceptable” uncertainty or risk?
 - What is “acceptable” loss and the “terms” for that loss?
 - What is an effect from OSW development v. from climate change?
 - What kinds of “compensation” are appropriate?
 - What if our standards are too high to compete with other areas?
- We want to protect the environment & have good jobs
- Coexistence of multiple ocean users & Risks of spatial interactions
- Dependence on larger industrial sources of energy & Decentralized sources
- We want to protect what we have & we want to be resilient in the future
- Balance trust & skepticism
- How to decide with imperfect knowledge and the timing of knowledge gathering
- The viewshed question. Can we accept this if it is a known loss?





Afternoon Break



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Establishing Workgroups



Initial Work Groups Ideas:

Where do we need a deep dive?

Overview of Exercise:

- Used Google Form data (29 responses) where RT members ranked six workgroup themes (1 = top priority, 6 = lowest).

Key Results:

- Marine Spatial Planning:** Ranked as the **top priority** (most votes for 1 and 2).
- Community Benefit Agreements:** Second priority, also with high votes for 1 and 2.
- Fisheries:** Third priority based on ranking data.
- Remaining Themes:** Research Agenda, Energy Policy, and Supply Chain ranked lower in importance.



Initial Work Groups Ideas:

Where do we need a deep dive?

Additional Suggestions from Members:

- **Environmental Impacts:** Including visual and sound impacts in the ocean.
- **Economic Development:** Covering housing, workforce training, and port development in coastal cities.
- **Tribal Resources:** Highlighted as an additional area of importance.



Which Workgroups to Launch Now?

One idea- We can adjust

- **Tribal Group**
 - For the 9 Oregon Tribes (focus on recommendations and issues important to Tribes)
- **Workgroups (delivering a strategy)**
 - Marine spatial planning (scope, timeline, who does it, differences from BOEM)
 - Community benefit agreements (framework, state role, standards, template)
 - Research agenda (a lighter touch, more coordination with OPAC, WCOA, regional groups to ensure Oregon's questions are in the mix)
- **Focus groups (specific kinds of feedback and conversation, could turn into a workgroup later)**
 - Supply chain (unsure what best forum might be)
 - Fisheries (DLCD and Sea Grant working on thoughts)



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Public Comment: Part II



Public Comment - Part II

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Closing/Next Steps



Next Steps

1. Next Meeting Jan 9th (Virtual).
2. Survey on the way (separate link for RSVP).
3. Meeting Summary en-route.
4. Effects Table Follow-Up from RT members (due by next meeting).
5. Workgroup Charter development.

