

OCEAN Update

Oregon Coast Energy Alliance Network

Feature Presentation:
Oregon Biennial Energy Report 2020

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April 20, 2021

Photo by Matte Hanna [insta@matte_hanna](https://www.instagram.com/matthewhanna)

OCEAN Mission

is a cross-cultural community-based organization with the initial mission to explore the opportunities and challenges of floating offshore wind energy (OSW) and to support the responsible development of Advanced Energy Technologies for the benefit of the planet, the people & the coastal communities of Oregon in the near term and for generations to come.



Our Purpose :

Expedite and influence the inquiry into the potential of OSW for maximum, multiple benefits and minimum conflicts for Oregon's coastal communities
&
meet a need for Oregon coastal community representation in energy sector policy proceedings.



April 2021 OCEAN Update

Shannon Souza, PE
Executive Director



Organizational

OCEAN is now a Federally Recognized non-profit 501c3 organization

Promoting front-line, front-loaded stakeholder engagement
designed around our coastal community perspective and
interests.

Our goal is to inform and influence coastal energy projects and
policies when they are in the earliest, formative stages to
maximize the benefits to our coast's citizens, ecology, and
economy



The Oregon Coast Energy Alliance Network is a cross-cultural community-based organization with the mission to explore the opportunities and challenges of floating offshore wind and other advanced energy technologies.

Education

OCEAN supports an informed and engaged coastal citizenry making decisions about our own energy, economic and cultural futures.

[Learn More](#)



OCEAN's Board of Directors & ED Represent a Diverse Network of Coastal Interests:

William Bradbury, President

Oregon Secretary of State from 1999 to 2009

Oregon Legislature from 1981 to 1995

Northwest Power and Conservation Council appointee by Governor Ted Kulongoski, 2010

Samuel J. Schwarz, Vice President

Coos Bay Boat Building Center, Board Member

Surfrider Foundation, former Chair Coos Bay chapter

Nor' Gale LLC Albacore Fishing, Owner

Bill Gorham, Environmental Chair

Southern Oregon Climate Action Now, Co-Facilitator

Marine Biologist Environmental Investigation & Permitting energy projects, retired

Author BOEM Whitepaper: Incorporating Benefits of OSW into NEPA documents

Captain Jeff Hill, Maritime Commerce Chair

Sause Brothers Towing, General Manager of Towing Operations / Senior Port Captain

Coos Watershed Association, Past Board Member

Humboldt Bay Harbor Safety Committee, Past Board Member

Connect Oregon Advisory Committee, Past Member: Marine

State marine task force for review of the wreck of the M/V New Carissa

Kyle Stevens, Workforce Development Chair

Southwestern Oregon Workforce Investment Board, Executive Director

International Port of Coos Bay Commissioner

ILWU Local 12 Identified Causal

Salmon Run, Co-Founder

Oregon Health & Science University Southern Oregon Coast Rural Campus, Former Site Coordinator

Robert Westerman, Economic Development Co-Chair

IBEW Local Union 932 (central & south coast), Business Manager

Oregon State Association of Electrical Workers, President

Southwestern Oregon Workforce Investment Board, Vice Chair

Boost Southern Oregon, Treasurer

Pacific Inside TAC Electrical Apprenticeship Committee, Chair

Oregon State Building and Construction Trades. Executive Board member

Cascade Pension Trust, Secretary and trustee

United States Navy, Veteran

Jamie Fereday, Secretary

Oregon Ocean Policy Advisory Council, Councilor

Sol Coast Companies, Energy Analyst

South Slough National Estuarine Research Reserve, Former Commissioner

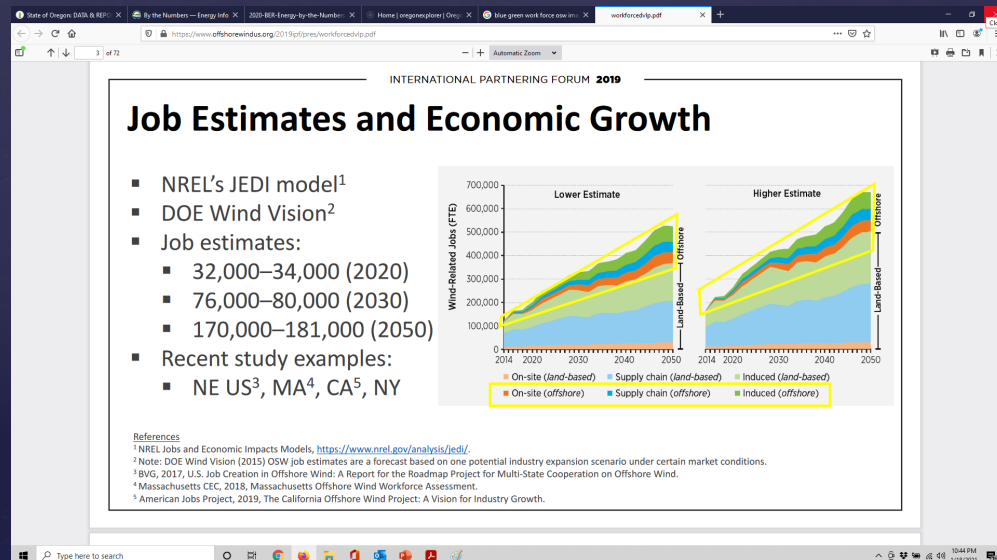
Coos Bay Public Schools, Retired biological science teacher

South Coast Land Conservancy, Founding member

Labor

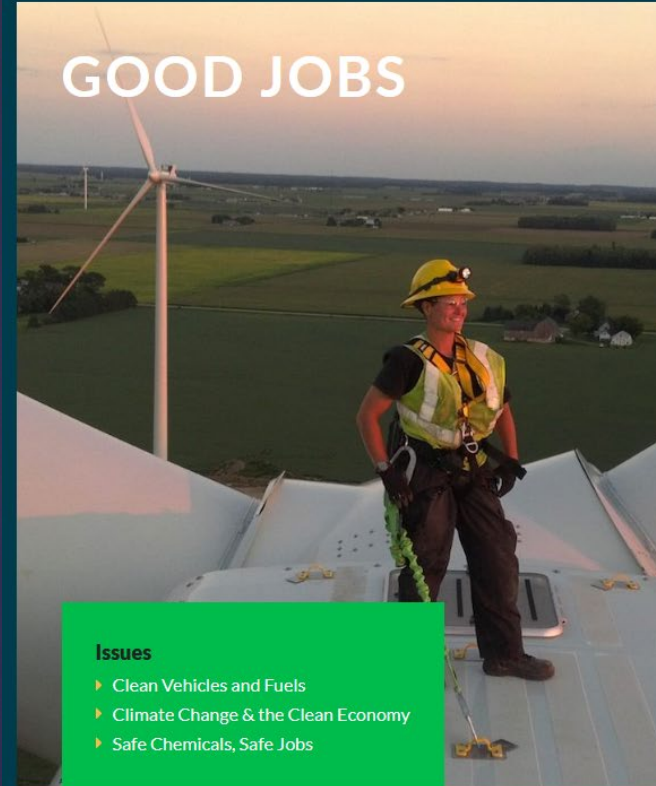
OCEAN is working with the Blue Green Alliance, Oregon Building Trades & IBEW to develop an Oregon OSW labor MOU

Joining the new Oregon coast Maritime Workforce Development table



LEARN MORE ABOUT OUR OTHER WORK

GOOD JOBS



Issues

- ▶ Clean Vehicles and Fuels
- ▶ Climate Change & the Clean Economy
- ▶ Safe Chemicals, Safe Jobs

FAIR TRADE

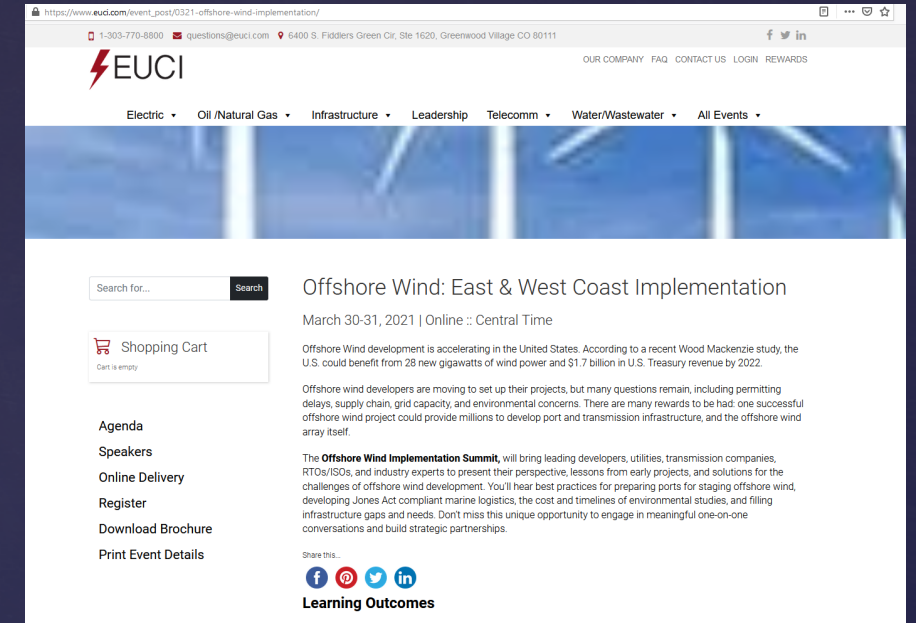


Issues

- ▶ 21st Century Trade Agreements
- ▶ Global Climate Change

Outreach

OSW Briefing Updates Presented to:
Oregon Public Ports
Association of Oregon Counties
Oregon Legislators
PNW Crabbers and Towers
Ocean Policy Advisory Council



Panelist: Strategies for community engagement and communication:

Offshore Wind: East & West Coast Implementation Summit

EUCI: “Our commitment is to stay true to the power of collaboration and inspire creative solutions through a concentrated and interactive learning environment.”



OCEAN seeking funding for our Adaptive Outreach Plan

Strategy: *Coastal Faces in Community Places*

Provide Info – Solicit Input :

- ⌘ Tabling @ Farmer's Markets & other Community Events
- ⌘ Tabling, Coffee Talks & "Drinking Civilly" in Ports of Call
- ⌘ Service, Commerce & other NG Organization Presentations
- ⌘ Talk Show Participation
- ⌘ Process Updates via LTE and guest columns
- ⌘ Continued Monthly Webinar Updates
- ⌘ Adjust Engagement per Community Feedback



March 21, 2018

Drinking Civilly gives locals a platform to be heard

COOS COUNTY — Drinking and discussing weighty political problems often go hand-in-hand, usually in a crowded bar.

Co-Founder Shannon Souza hopes that these monthly meetings will give locals a platform where city and county governments will listen.

Taking advantage of this age-old trend is Shannon Souza, co-founder of Drinking Civilly. To push together the voices of community members onto a platform that local politicians may hear more, she has begun the once-a-month meeting at 7 Devils Brewing Co.

Federal Support for OSW Development

2020 Stimulus Bill creates stand alone OSW Investment Tax Credit:
30% for any projects where construction begins before 2026
(spending 5% of the total cost of project) and is not subject to any phase down.



- Investing in American infrastructure to strengthen the domestic supply chain and deploy offshore wind energy
 - Supporting critical research and development and data-sharing
 - Build next generation industries in distressed communities

Biden American Jobs Plan:

- Advance ambitious wind energy projects to create good-paying, union jobs

OCEAN Lead Middlebury Institutes Federal Delegation to US Department of Energy

USDOE Messages:

National Goal of 30 GW by 2030

New focal points of Equity, Communities
& Deployment

Desire to Engage with Fenceline
Communities

OCEAN Messages:

National Labs: Transmission Planning &
Infrastructure

CoExistence By Design: OSU, National
Labs, Industry and Oregon's Fishers &
Conservationists

Environmental Justice – Ready to Engage
Fenceline Community Just Transition



Policy Federal



Factors Shaping West Coast Fishing Communities to 2040

- | | |
|----------------------------------|---|
| 1. Ocean warming | 11. Societal values |
| 2. Ocean acidification | 12. Consumer demand |
| 3. Sea-level Rise | 13. Global trade / industry policy |
| 4. Hypoxia / HABS | 14. Regulation and environmental policy |
| 5. Range shifts and productivity | 15. Protected species status |
| 6. Ecological surprises | 16. Food technology |
| 7. Terrestrial climate impacts | 17. Data and monitoring technology |
| 8. Marine pollution | 18. Fishing industry structure |
| 9. Alternative ocean uses | 19. Aging of fleet and expertise |
| 10. Aquaculture | 20. Coastal community development |
| | 21. Range shifts and productivity |

Policy Federal

Pacific NorthWest Federal Delegation Follow Up

CoExistence by Design: opportunities for OSW planning, deployment and operations to result in Net Benefits to our West Coast fishing fleets and communities.

Western Grid Modeling via National Labs

US DOD Pre-Call Area Conflict Consultation

Fenceline Community Engagement

Thank You to Davis Write Tremain (DWT) for ProBono legal council in this arena!



Regional Planning



Continued Outreach with Staff and Council via
NorthWest Energy Coalition (Thank you NWECC!)



NW Energy Coalition
for a clean and affordable energy future

OCEAN is Advocating for

- ⌘ OSW as emerging technology
- ⌘ Inclusion of Low Frequency High Consequence Events in future planning

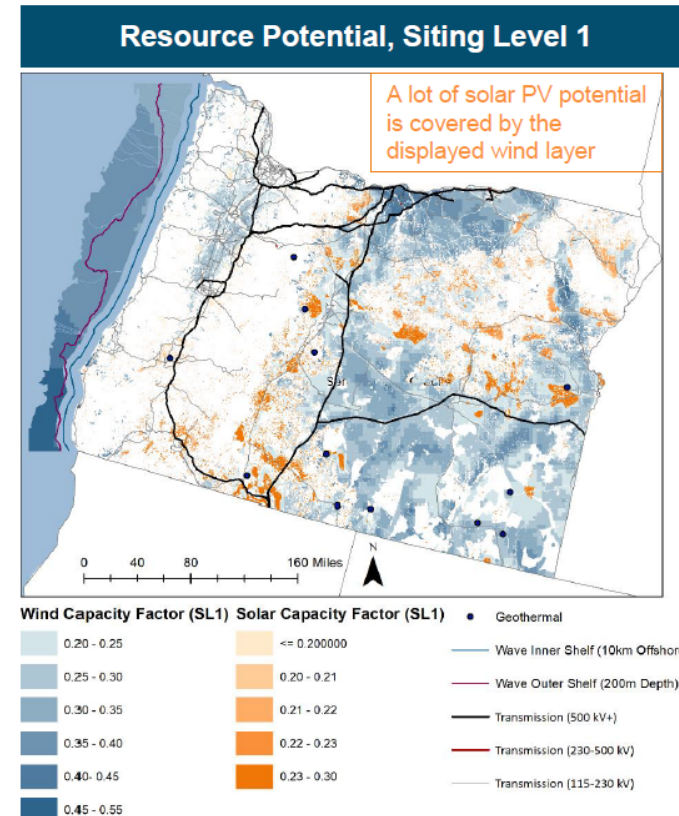


OCEAN continues to engage with contractors working on the US Department of Defense funded Oregon Renewable Energy Siting Assessment



Siting Level 1 allows vast amounts of RE potential

Resource	Cap. Factor (%)	SL 1 Potential (GW)
Solar	<20%	326
	20-21%	55
	21%-22%	273
	22%-23%	822
	23%-30%	2,616
Wind	25-30%	86
	30%-35%	63
	35%-45%	28
Offshore Wind	35%-40%	29.4
	40%-45%	110.5
	45%-50%	13.2
	50%-55%	22.0
Geothermal	80%	0.4
Wave	25%-45%	9.0

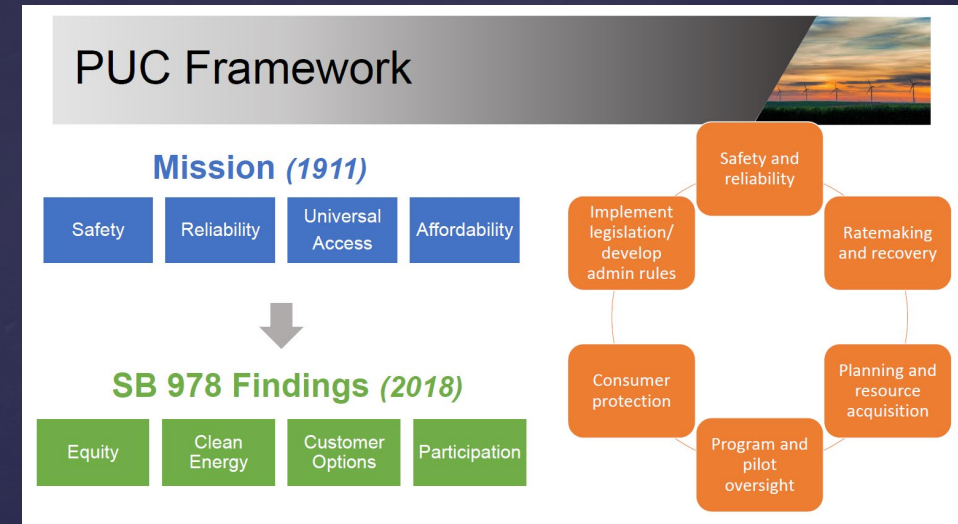


Policy state

Oregon Public Utility Commission :

Supporting Pacific Ocean Energy Trust (POET) engagement -

- Staff Education
- Capacity
- Resource Adequacy
- Integrated Resource Planning





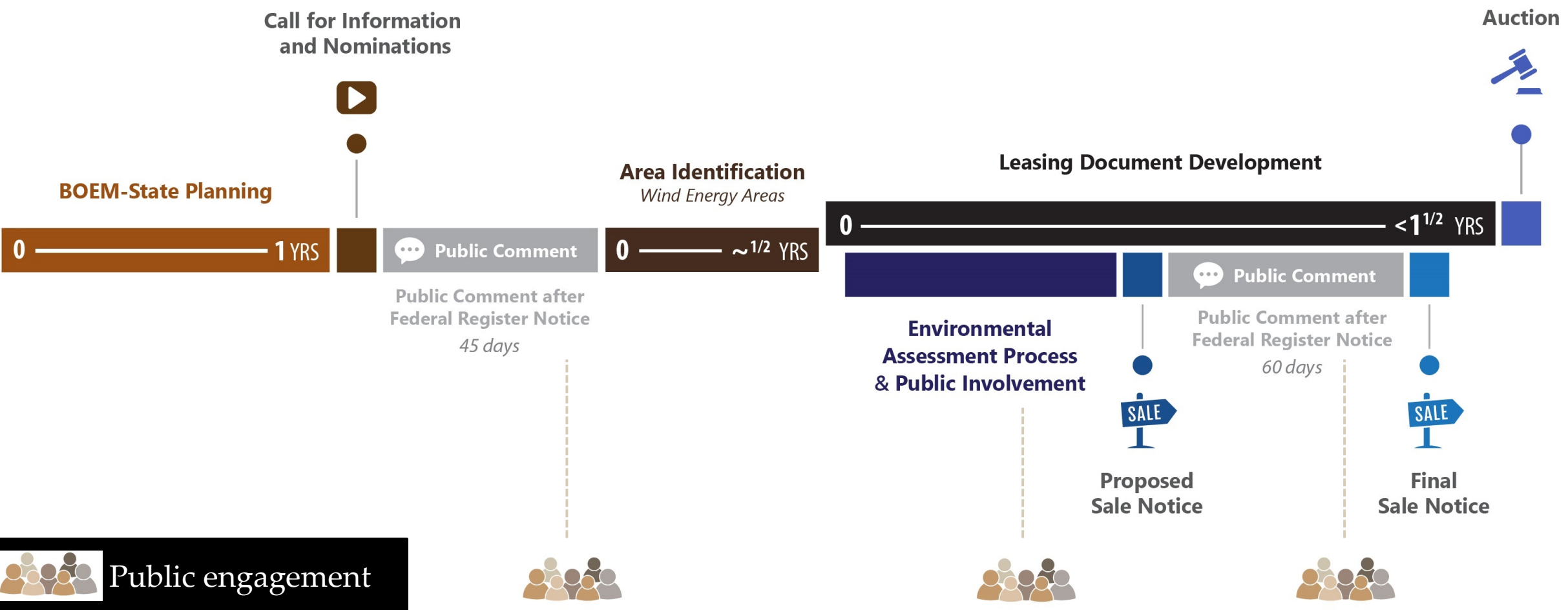
Policy state

Legislative :

- Regional Transmission Organization study bill (support)
- Renewable Hydrogen (support)
- 100% Clean Energy bills (testimony)
- HB 3375 OSW Planning Bill – House Energy & Environment Committee Presentation (champion)



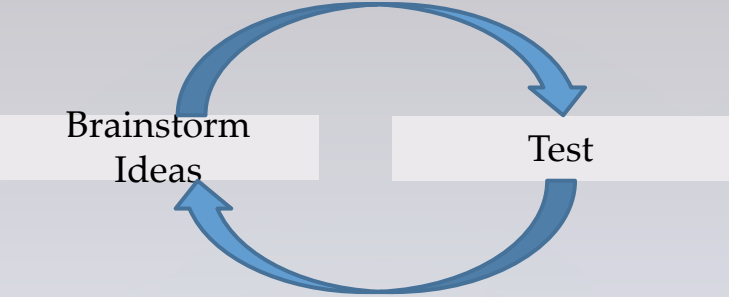
Oregon Planning and Public Input Opportunities Prior to a Lease Auction



*A lease provides the lessee the right to submit a Site Assessment Plan (SAP) and a Construction and Operations Plan (COP) for technical and environmental review and approval. A lease does not, by itself, authorize any activity within the leased area.

TRADITIONAL Project Proponent Public Involvement Model

Moving at the speed of must



{

Drivers/ Need Statement	Brainstorm/ Test	Socialization “First Contact”	Formal Proposal	EIS	Litigation
High	High	Medium	Low	Low	Low
Low	Low	Low	Medium	High	High

Project Pliability¹
External Participation²

High
Medium
Low

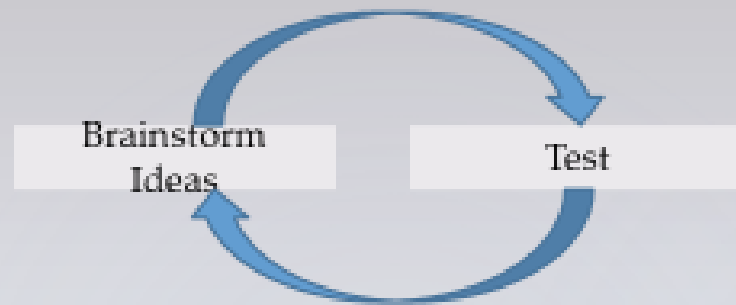
¹willingness of project proponents to explore the widest range of alternatives
²ability and avenues exist for outside parties to exert influence

Courtesy W. Henry, PSU graduate student



O.C.E.A.N. Public Involvement Model

Moving at the speed of trust



	{					
	Drivers/ Need Statement	Brainstorm/ Test	Socialization "First Contact"	Formal Proposal	EIS	Litigation
Project Pliability ¹	High	High	Medium	Medium	Low	Low
External Participation ²	Medium	High	High	Medium	Medium	Low

High
Medium
Low

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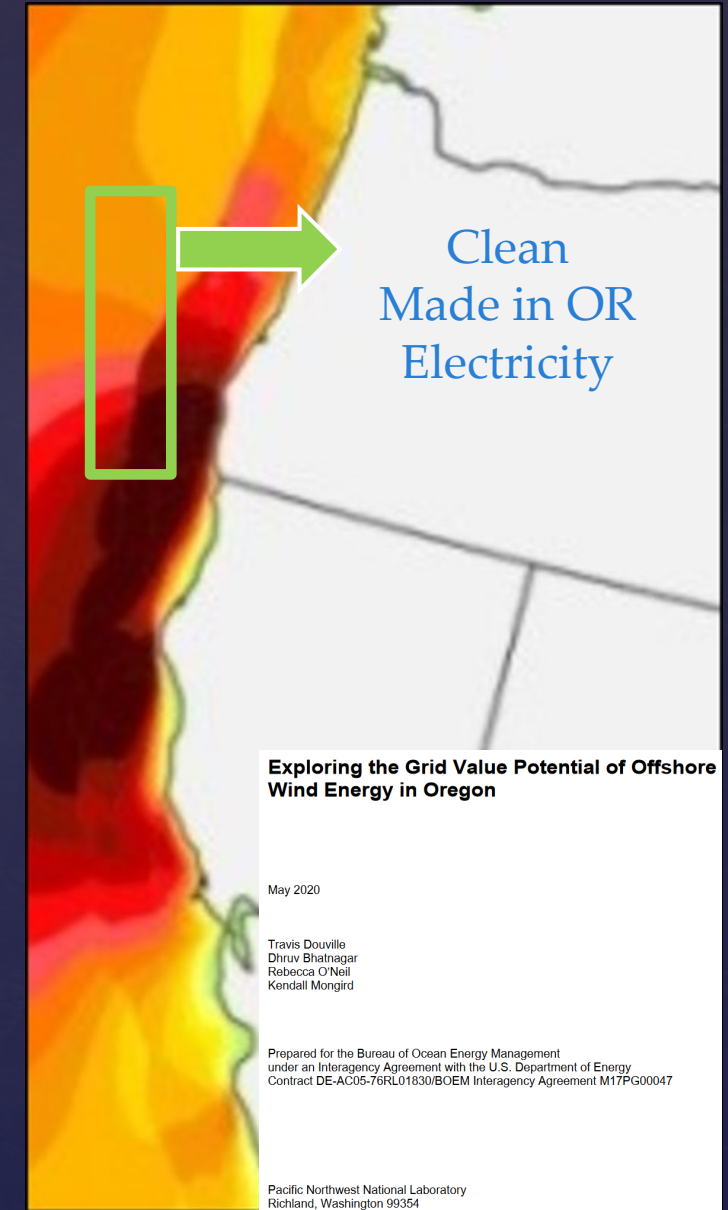
Courtesy W. Henry, PSU graduate student

Opportunity: Oregon's Existing Transmission can Accommodate 2-3 GW of floating wind electricity

“Over 2 gigawatts of offshore wind can be carried by current transmission to

strengthen coastal grids,
allow for additional renewable energy integration from the east,
and reduce power flows into Oregon
without exporting significant power. “

<https://www.boem.gov/sites/default/files/documents/regions/pacific-ocs-region/environmental-analysis/BOEM-2020-026.pdf>

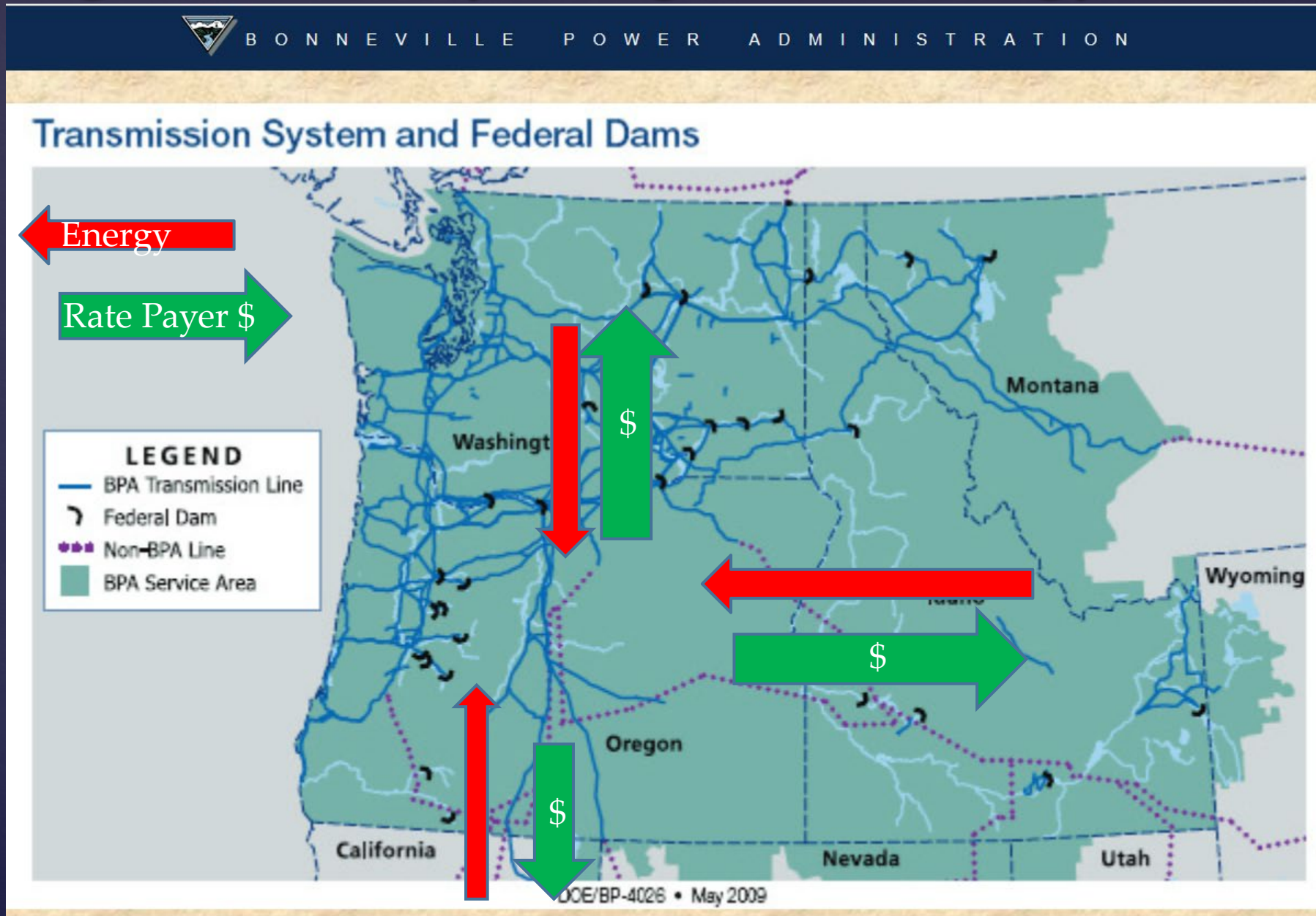


Oregon Offshore Wind Grid Integration Analysis:

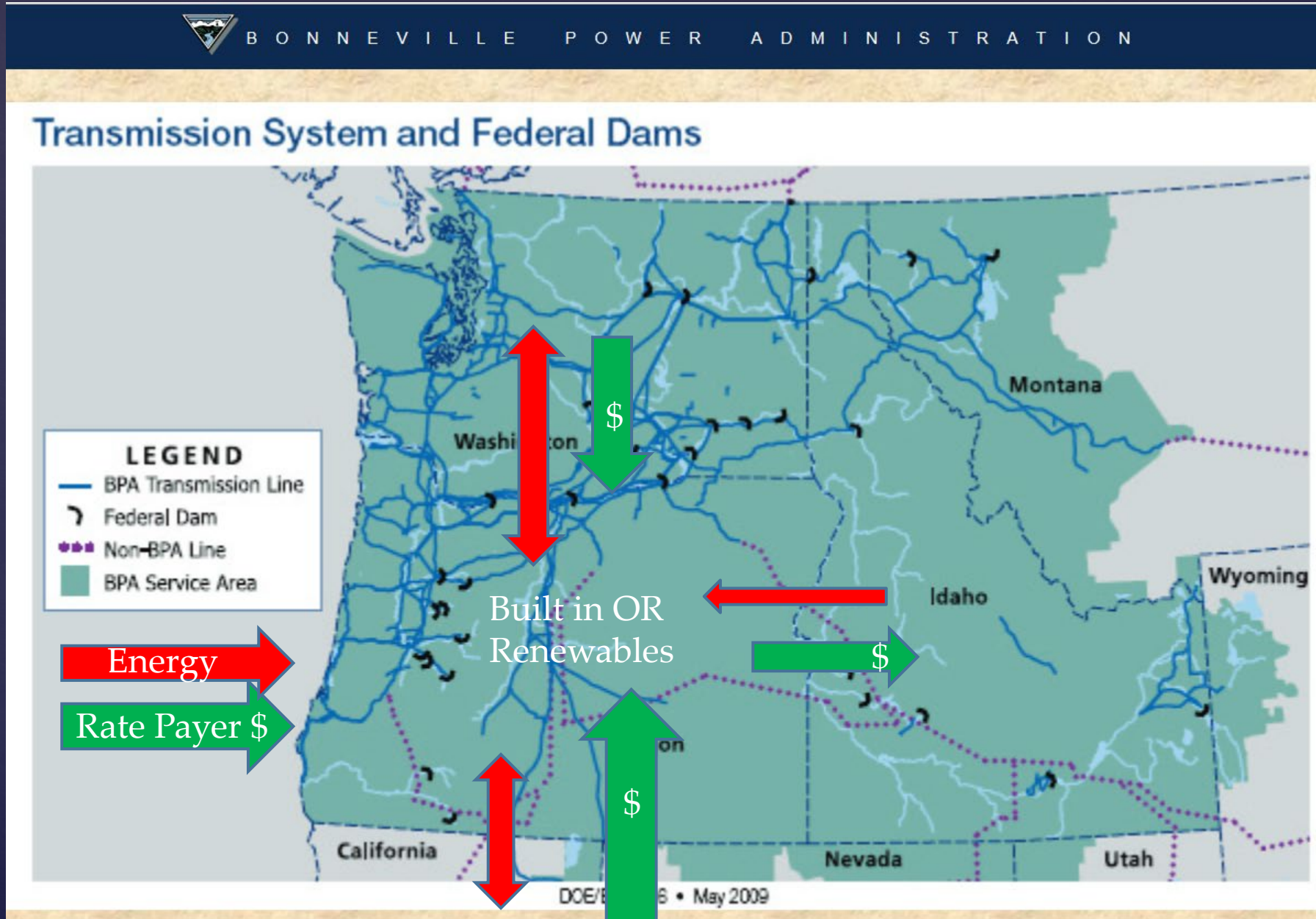
U.S. Department of Energy/National Renewable Energy Laboratory (NREL) will comprehensively **assess the potential value of offshore wind energy** to the Oregon power system, specifically **as a possible non-wires alternative for the electric grid**.

- (1) develop scenarios for potential offshore wind deployment in the context of the Oregon power generation and transmission landscape,
- (2) model offshore wind power generation at high spatial and temporal resolution, and
- (3) assess key potential grid benefits and challenges for the deployment scenarios via NREL's production cost models.

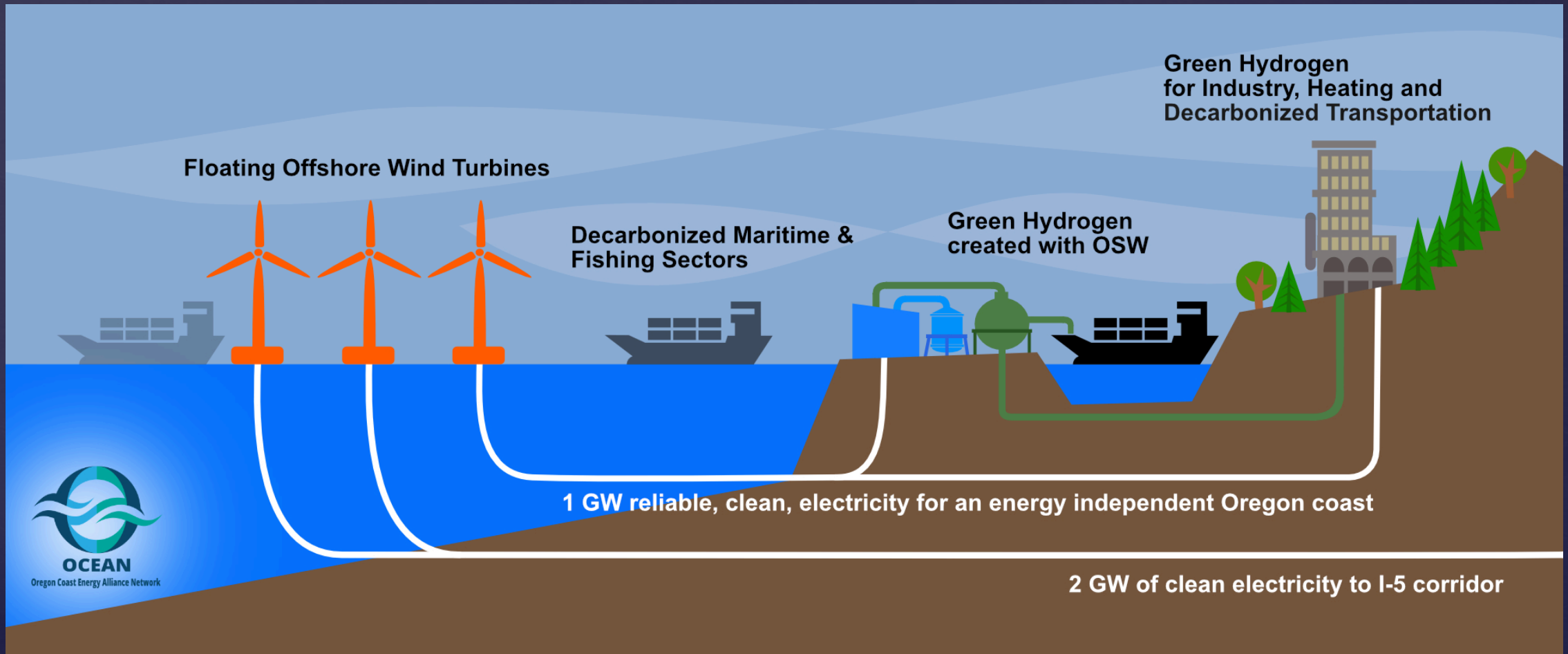
Oregon in today's regional energy market:



Oregon's OSW opportunity for tomorrow's regional energy market:



Surplus Floating OSW, *when used to generate clean Renewable Hydrogen*, supports the decarbonization of the transportation and maritime sectors and poises Oregon for greater energy independence and clean economic diversity



Opportunity: Oregon Ports Poised to Supply, Assemble and/or Service West Coast OSW



Foreign-Trade Zone (FTZ)

Rural Renewal Energy Development Zones (RRED)

3 GW of OSW development would infuse
\$9 - \$21 Billion Dollars into Oregon's
economy

Potential Barriers to Oregon OSW Development:

Compatibility with
other Beneficial Users:
Fishers
Shippers
Wildlife



Long term High Voltage Deep
Sea transmission to California
market

HB 3375 -2

- Compliments ongoing ecosystem impact assessments through BOEM funding.
- Recognizes the benefits of planning for the benefit of Oregonians (rate payers, fishers, tribes, labor & ecosystems).
- Acknowledges the active role of DLCD in facilitating coexistence with other Ocean users.
- Identifies the values of Oregon stakeholder inclusion in early planning.
- Signals immediate Federal and Private investment in Oregon renewable energy, supply chain and workforce development.
- Poises Oregon for responsible, beneficial participation in a clean western energy market.
- Provides Legislators with a timely update on Oregon's OSW opportunity to inform next steps.

HB 3375 -1

HB 3375 establishes a “goal of this state to plan for the development of up to 3 GW of floating offshore wind energy projects within the federal waters off the Oregon coast by 2030...in a manner that will maximize benefits to this state while minimizing conflicts between floating offshore wind energy, the ocean ecosystem and ocean users.”

The bill directs Oregon’s Department of Energy to:

1. Conduct a literature review on the benefits and challenges of integrating up to 3 GW of offshore wind into Oregon’s electric grid by 2030.
2. Consult with other state, regional and national entities to gather input on the effects, including benefits and challenges, of integrating up to 3 GW of offshore wind on reliability, state renewable energy goals, jobs, equity, and resilience.
3. Hold public meetings with interested stakeholders to provide summary findings and to gather feedback on the benefits and challenges of integrating up to 3GW of offshore wind.
4. Provide a summary of key findings, including opportunities for future study and engagement, to Oregon’s Legislative Body by September 2022.

Feature Presentation: Oregon Department of Energy

Biennial Energy Report, 2020

Jason Seirman
Senior Policy Analyst

