

HB 2603 - TSP Part Four Update

OPAC Meeting



OCMP



DLCD



9.29.2022

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Undersea Cable Coordinator

Oregon Coastal Management Program

House Bill 2603 Work Updates

An aerial photograph of a coastline. The land is green and brown, with some rocky outcrops. The ocean is blue. A network of yellow and green dashed lines is overlaid on the blue area, representing proposed undersea cable routes. A dark grey rectangular box is positioned over the lower part of the coastline, containing white text.

Undersea Cables in Oregon's Territorial Sea

- Working Group Meetings-
 - First Working Group meeting held on May 2nd 2022
 - Elected Tara Brock as Chair
 - Agency walkthrough of permitting process
 - Next 5 Working Group meetings tentatively scheduled for the first Wednesday of each month December 2022-April 2023
 - Draft Amendments should be submitted to OPAC by end of April 2023.
- DOGAMI Interagency Agreement-
 - Study to do geologic site assessment of the Oregon coast for potential cable landing sites.
 - Signed June 14th 2022
 - Expected completion by April 2023
- Best Practices Study-
 - Study of best practices in the undersea cable industry both domestically and internationally.
 - Signed September 12th 2022
 - Expected completion January 2023

House Bill 2603

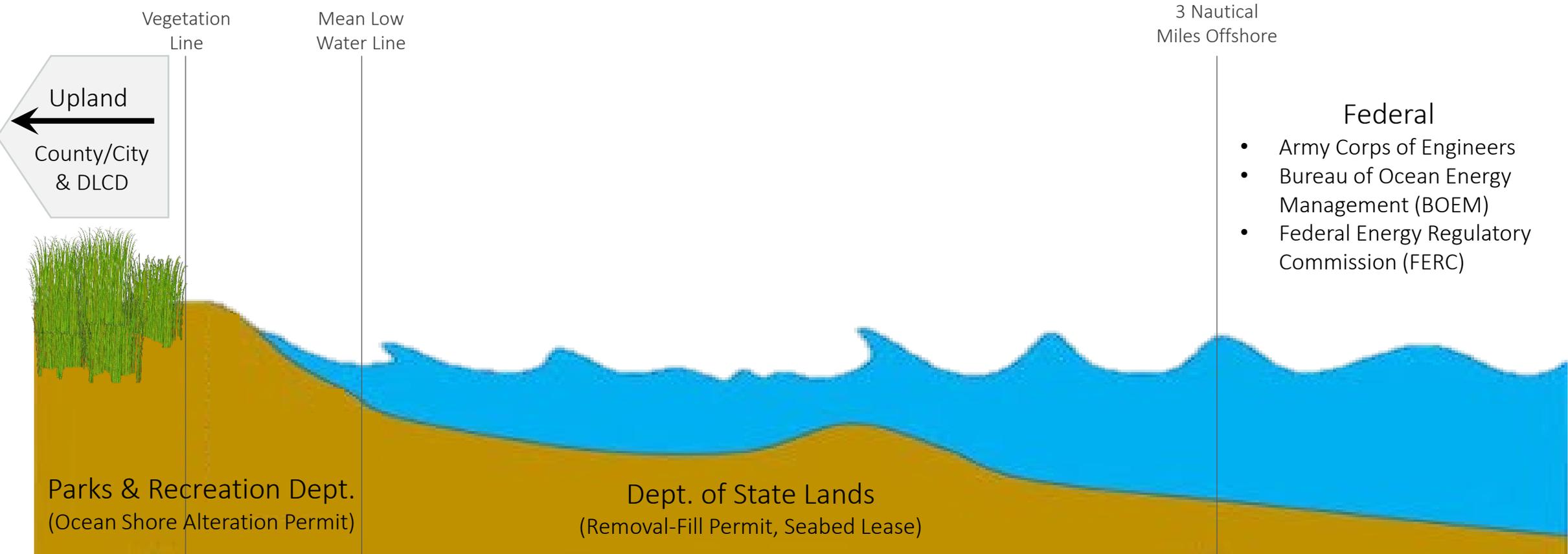
DLCD and DSL Study



Undersea Cables in Oregon's Territorial Sea

- DLCDC, in consultation with DSL and relevant local and tribal governments shall review Part Four of the Territorial Sea Plan. The review must consider:
 - Fee structures
 - State and Federal review processes (including required permits)
 - DLCDC shall provide the study results to the Ocean Policy Advisory Council
- DSL hired a Fellow to coordinate with DLCDC (Starts October 2022)
 - DLCDC staff met with DSL staff September 2022 to develop a work plan for the new Fellow.
- Review study expected to be completed by December 2022

Regulatory Overview: Subsea Cables



Coastal Zone: Dept. of Land Conservation & Development - OR Coastal Management Program (Federal Consistency Review)
Statewide: Dept. of Environmental Quality (401 Water Quality Certification)
Dept. of Fish & Wildlife (Fishery closures/exclusion; Consultation; Scientific and Incidental Take Permits)

Permitting Overview: Subsea Cables

LOCAL

- Determined based on local policies. May include:
 - Conditional Use Permit
 - Floodplain Development Permit
 - Development Permit

STATE

- Federal Consistency Review (DLCD-OCMP)
- Section 401 Water Quality Certification (DEQ)
- Proprietary Easement/Lease (DSL)
- Removal-Fill Authorization (DSL)
- Ocean Shore Alteration Permit (OPRD)
- Potential Fish and Wildlife Authorization(s) (ODFW)

FEDERAL

- Nationwide #12 Permit or Standard Individual 404 Permit (USACE)
- Other project-based authorizations may involve -
 - Bureau of Ocean Energy Management (BOEM)
 - Federal Energy Regulatory Commission (FERC)
 - U.S. Coast Guard

Involved State Agencies



TSP P4 Working Group Composition

- **Stakeholders**

Fishing Industry
Coastal Residents
Conservation
Cable Industry
(Telecommunications,
Power, Cable
Infrastructure)
Coastal research
Public-at-large

- **State Agencies**

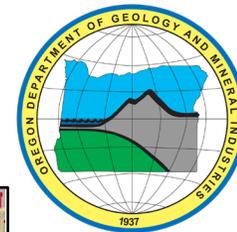
DLCD
ODFW
DSL
OPRD
DEQ
DOGAMI
ODOE
ODOT

- **Governments**

Local Government
Tribal Governments

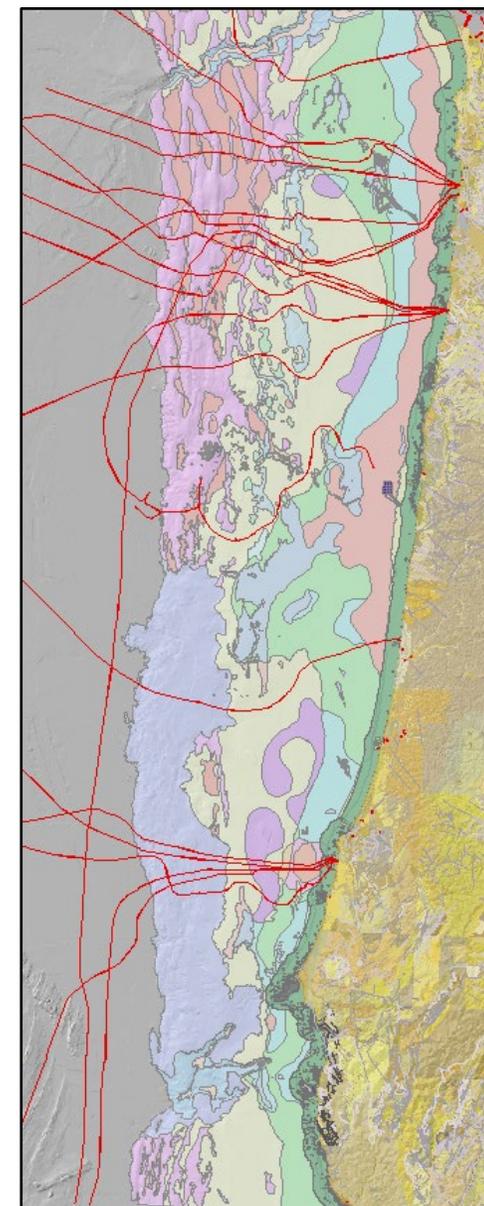
- **Federal Agencies**

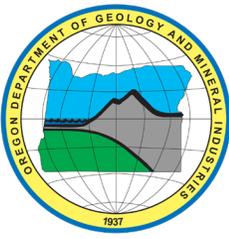
DOD
Army Corps of
Engineers



Considerations for cable landing construction

- Offshore substrate
- Existing infrastructure
- On-shore surface rock types and heterogeneity relevant to horizontal directional drilling
- Shallow subsurface geology
- Faults and other geologic boundaries near coast
- Land-use and environment along the coast: potential impacts of inadvertent return or subsidence

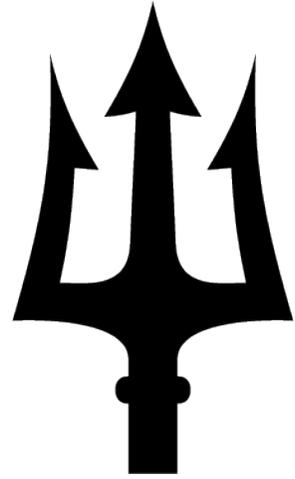




Considerations for cable landing siting & longevity

- Coastal erosion- rates of coastal change and correlation to geomorphology
- Cascadia earthquake hazards: shaking, liquefaction, subsidence, and tsunami inundation
- Active crustal faults
- Landslide history and susceptibility





WOPSCHALL
consulting

Submarine Cable Advisory Services

Oregon Ocean Policy Advisory Council

Territorial Sea Plan Review

*Best Practice Study - Undersea Cable
Placement in the US and Abroad*

29 September 2022



Intro:

Wopschall Consulting has been contracted to prepare a report on the placement of undersea fiber optic and power cables based on industry best practices in the US and abroad.

Input:

The study will draw on Wopschall's industry knowledge in this sector, particularly with regards to siting landing sites, cable landing stations, offshore marine routes, understanding of State and Federal permitting and processes abroad, as well as best practices for cable installation, maintenance and decommissioning.

The study will draw on published literature, primarily best practice literature and environmental literature pertaining to undersea cables. It will also draw on Recommendations published by the International Cable Protection Committee whose purpose is to give best practice guidance to the industry and stakeholders.



Scope:

Topics covered will include, but not be limited to:

- Siting cable landing sites and coordinating the offshore design with the onshore design requirements of a project
- Offshore route selection and engineering
- Onshore landing site construction methods
- Offshore cable installation methods
- The data that goes into the above points
- Stakeholder and other marine user interactions and coordination
- Cable maintenance and repair activities
- Cable decommissioning and removal
- Geomorphology of seabed routing and coastal landing sites
- Common risks to the planning, development and construction of cables

The report will not only cover best practices, but will explain the rationale for the best practices - *why do people do what they do when it comes to cables?*



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