



Oregon Territorial Sea Plan: Part Four

Uses of the Seafloor

Adopted by LCDC Insert Date Here

Deleted:

Table of Contents:

- 1. The State Perspective**
- 1.1 Purpose.....
- 1.2 Goal.....
- 1.3 Objectives.....
- 2. Background**
- 2.1 International Law and Treaties Obligations.....
- 2.2 Federal.....
- 2.3 State.....
- 2.4 Local.....
- 2.5 Critical Infrastructure.....
- 3. Policies**
- 4. Implementation Requirements**
- 4.1 State Agency Review Process
- 4.2 Joint Agency Pre-Application Meeting.....
- 4.3 Resource Inventory and Effects Evaluation.....
- 4.3.1 Purpose
- 4.3.2 Sufficiency
- 4.3.3 Use
- 4.3.4 Inventory Content
- 4.3.5 Written Evaluation
- 4.4 Routing and Landing.....
- 4.5 Installation.....
- 4.5.1 Cable Burial
 - 4.5.1.1 In State Waters
 - 4.5.1.2 In Federal Waters
 - 4.5.1.3 Burial Verification
- 4.7 Maintenance.....
- 4.8 Decommission and Recovery.....
- 4.8.1 Undersea Cables
- 5. Communication and Cooperative Mechanisms.....**
- 6. Territorial Sea Plan Revision**
- Appendix A: Glossary**



Oregon Territorial Sea Plan: Part Four

Uses of the Seafloor

Adopted Insert Date Here

The Land Conservation and Development Commission adopted these amendments on December 1, 2000, based on a recommendation from the Ocean Policy Advisory Council, January 28, 2000. These amendments are consistent with administrative rules adopted by the Oregon State Land Board in August 1999, governing easements for submarine fiber-optic cables.

Deleted: T

Deleted: were adopted by the Land Conservation and Development Commission

Formatted: Highlight

Formatted: Highlight

Deleted: August,

Formatted: Highlight

UNDERSEA CABLES, PIPELINES, AND OTHER UTILITIES OR FIXTURES

1 The State Perspective

1.1 Purpose

Part Four of the Oregon Territorial Sea Plan provides a strategic framework for the decision-making process, partnerships, and collaborative relationships for undersea infrastructure on, affixed to, or buried under the seafloor in the state territorial sea.

1.2 Goal

This strategic framework aims to maintain the long-term protection of marine ecosystems, preservation of their ecological functions, economic and social services, and, at the same time, protection of infrastructure on, affixed to, or buried under the seafloor in the state territorial sea from potential threats in order to preserve the services the infrastructure provides, Oregonians.

Deleted: d

Deleted: by the infrastructure for

1.3 Objectives

This strategic framework identifies the following objectives to be achieved:

- a. Maintain and protect marine ecosystems, biological resources, migratory species, and areas that are of economic (e.g., fisheries, navigation), aesthetic, recreational, social, or historical importance to the people of Oregon, and could be impacted by infrastructure on, affixed to, or buried under the seafloor in the state territorial sea.
- b. Implement policies and recommendations for routing and landing, installation, maintenance, decommission, and recycling of infrastructure on, affixed to, or buried under the seafloor in the state territorial sea.
- c. Engage communities, ocean users, industries, research institutes, and technical experts in decision-making on a state permit, license, lease, or other authorization for infrastructure on, affixed to, or buried under the seafloor in the state territorial

Deleted: .

[sea.](#)

- d. Facilitate coordination and cooperation among federal, state, and local agencies, and tribal governments in the permitting and planning process for infrastructure on, affixed to, or buried under the seafloor in the state territorial sea, and [require](#) that [the applicant develop and update](#) mitigation and accident response plans.
- e. Promote resilience of infrastructure on, affixed to, or buried under the seafloor in the state territorial sea to climate change, natural disasters, extreme weather events, and human-made activities.
- f. Coordinate the development and installation of infrastructure on, affixed to, or buried under the seafloor in the state territorial sea with the growing development of renewable energy facilities in the Pacific Northwest (e.g., offshore wind farms, hydrokinetic, solar, and hydrogen technologies).
- g. Continue current, and promote future, compatible use of the seafloor [in the state territorial sea](#) between various ocean users.
- h. [Keep Oregon a viable place to land submarine telecommunications cables.](#)

Deleted: ensure

Deleted: are developed and updated

2. Background

Oregon's coast is a prime landing zone for fiber-optic telecommunication cables that cross the ocean floor from sites around the Pacific Rim. Other types of utilities such as ocean outfall pipes also make use of the seafloor. In the future, utilities such as pipelines and power transmission cables from renewable energy facilities, may eventually be routed across [the seafloor of the state territorial sea](#). Proper placement of easements and installation of infrastructure on, affixed to, or buried under the seafloor in the state territorial sea is required to avoid damage to or conflict with other ocean uses, such as commercial fishing, and to avoid, minimize, and mitigate adverse effects on natural resources, marine habitats, and coastal communities.

Deleted: Oregon's Territorial

Deleted: sea

Deleted: bed

State agencies, such as the Department of State Lands ([DSL](#)), the Department of Environmental Quality ([DEQ](#)), the Department of Fish and Wildlife ([ODFW](#)), the Oregon Parks and Recreation Department ([OPRD](#)), and the Department of Land Conservation and Development ([DLCD](#)), need specific policies and standards for considering the routing and installation of infrastructure on, affixed to, or buried under the seafloor [in the state territorial sea](#). The policies and standards within the Territorial Sea Plan can also assist federal agencies in the siting and regulation of infrastructure located in federal waters adjacent to the territorial sea.

Deleted: of

Deleted: Oregon

Deleted: T

Deleted: S

Deleted: should

Deleted: the following (but not limited to)

Deleted: treaties

Deleted: ensure

2.1 International Law and Treaties Obligations

In implementing this strategic framework, the state [recognizes](#) international [agreements intended](#) to [provide](#) adequate oversight and protection of federal and state concerns regarding seafloor development actions.

- International Convention for the Protection of Submarine Telegraph Cables (1884).
- The United Nations Convention on the Continental Shelf (1958).
- The United Nations Convention on the High Seas (1958).
- The United Nations Convention on the Law of the Sea (1982).¹
- The United Nations Convention on the Law of the Non-Navigational Uses of International Watercourses (1997).
- The United Nations Framework Convention on Climate Change (1992) and the Paris Agreement (2015).

In addition to [those](#) international [agreements](#), various federal, state, and local agencies and authorities are involved in the permitting process [related to](#) seafloor development in Oregon. The routes of seafloor infrastructure can pass through many jurisdictions, and therefore require authorizations from multiple agencies for installation and construction.

Deleted: considerations

Deleted: listed above

Deleted: for

2.2 Federal

The state should consider consulting with the following (but not limited to) federal agencies with a role in permitting seafloor development: The National Oceanic and Atmospheric Administration (NOAA) and the United States Army Corps of Engineers (USACE). Additionally, for offshore renewable energy [facilities addressed in Part Five](#): the Bureau of Ocean Energy Management (BOEM) and the Federal Energy Regulatory Commission (FERC) play roles in permitting and leasing.

Deleted: In addition to federal agencies and their roles in the permitting process for seafloor development, recognition should be given to the tribal peoples native to Oregon. Not only are there state and federal laws in place that ensure communication and coordination between the state and the federally recognized tribes, but it is important to protect tribal cultural resources and learn traditional ecological knowledge and perspective that the tribes have to offer.

[In addition to the federal laws identified in Part One, subsection D.4, under federal law undersea cable systems are, and pipelines and other utilities may also be, considered vulnerable critical infrastructure. The USA PATRIOT Act of 2001 and the Critical Infrastructure Information Act of 2002 aim to protect critical infrastructure and facilitate sharing of critical infrastructure information among the owners and operators of the facilities and government agencies with infrastructure protection responsibilities.](#)

[The Cybersecurity and Infrastructure Security Agency \(CISA\) considers 16 critical infrastructure sectors, including communication, energy, information technology, and water and wastewater systems.](#)²

[Critical infrastructure is subject to risks associated with physical threats and natural disasters. It is also now increasingly exposed to cyber risks. In addition, connections and interdependencies between infrastructure elements and sectors mean that damage, disruption, or destruction to one infrastructure element can cause cascading effects, impacting the continued operation of another.](#)

[A Guide to Critical Infrastructure Security and Resilience prepared by CISA](#)³ highlights

¹ The United States has signed the Agreement but has not ratified it. See Part One, subsection D.5 for background.

² The Department of Homeland Security Critical Infrastructure Sectors <https://www.cisa.gov/topics/critical-infrastructure-security-and-resilience/critical-infrastructure-sectors>

³ A Guide to Critical Infrastructure Security and Resilience <https://www.cisa.gov/sites/default/files/publications/Guide-Critical-Infrastructure-Security-Resilience-110819->

[the Cascadia Subduction Zone earthquake preparedness in the Pacific Northwest as a case that requires cooperation among federal, state, local agencies, and the private sector to improve the resilience of critical infrastructure, including telecommunication cables, pipelines, and other utilities.](#)

2.3 State

Seafloor development within the Territorial Sea may require [authorizations](#), permits, certifications, determinations, and easements from [DSL](#), [OPRD](#), [DEQ](#), and [DLCD](#).

2.4 Tribal

[State and federal laws applicable to permitting process for seafloor development provide for communication and coordination between the state and the federally recognized tribes. Coordination with the tribal peoples native to Oregon affords the opportunity to learn traditional ecological knowledge and perspective important to the protection of tribal cultural resources.](#)

2.5 Local

If a seafloor development has an onshore component, local counties, municipalities, or special districts may have jurisdiction and may have their own requirements and development actions need to be consistent with local land use planning. The most common approvals required include, but are not limited to, conditional use permits or development permits.

3. Policies

These [se](#), policies and [the](#) implementation requirements [of the following section](#) are mandatory.⁶ Decisions of state agencies with respect to approvals of permits, licenses, leases or other authorizations to construct, operate, maintain, or decommission any cables, pipelines, utilities or fixtures on, affixed to, or buried under the seafloor in [the state territorial sea](#) and or connected from the seafloor to the ocean shore must comply with the requirements [of the Oregon](#) Territorial Sea Plan. Once NOAA's [Office for Coastal Management \(OCM\)](#) approves the incorporation of the enforceable policies of the Territorial Sea Plan into the Oregon Coastal Management Program, they are applicable to those federal actions that affect Oregon's coastal zone and are subject to the federal consistency requirements of the federal Coastal Zone Management Act.

An applicant for a project or development action within or affecting the Oregon Territorial Sea shall:

Design and site projects and infrastructure responsibly such that proposed seafloor development actions will maintain and protect to the maximum extent practicable, natural resources, ecosystem integrity, marine habitat, and areas

[508v2.pdf](#); see also [CISA National Critical Functions Set https://www.cisa.gov/sites/default/files/publications/national-critical-functions-set-508.pdf](#)
⁶ [Notwithstanding Part one, paragraph F.1.b.](#)

Deleted: the following (but not limited to) agencies:
Oregon Department of State Lands (

Deleted:)

Deleted: Oregon Department of Parks and Recreation (

Deleted:)

Deleted: Oregon Department of Environmental Quality (O

Deleted:)

Deleted: Oregon Department of Land Conservation and Development (

Deleted:)

Deleted: ¶

¶

Critical Infrastructure¶

Undersea cable systems are, and pipelines and other utilities may also be, considered vulnerable critical infrastructure. The USA PATRIOT Act of 2001 and the Critical Infrastructure Information Act of 2002 aim to protect critical infrastructure and facilitate sharing of critical infrastructure information among the owners and operators of the facilities and government agencies with infrastructure protection responsibilities. ¶

The Cybersecurity and Infrastructure Security Agency (CISA) considers 16 critical infrastructure sectors, including communication, energy, information technology, and water and wastewater systems⁴. ¶

Critical infrastructure is subject to risks associated with physical threats and natural disasters. It is also now increasingly exposed to cyber risks. In addition, connections and interdependencies between infrastructure elements and sectors mean that damage, disruption, or destruction to one infrastructure element can cause cascading effects, impacting the continued operation of another. ¶

A Guide to Critical Infrastructure Security and Resilience prepared by CISA⁵ highlights the Cascadia Subduction Zone earthquake preparedness in the Pacific Northwest as a case that requires cooperation among Federal, state, local agencies, and the private sector to improve the resilience of critical infrastructure, including telecommunication cables, pipelines, and other utilities.¶

¶

¶

[NOTE: In approving these plan policies for submit...

Deleted: following

Deleted: Oregon's

Deleted: waters

Deleted: mandated in

Deleted: /

Deleted: R

important to fisheries, navigation, recreation and aesthetic enjoyment from adverse effects that may be caused by said development actions. For purposes of this section, 'Maintain and protect' requires, in order of priority:

- 1) Avoiding the impact altogether by not taking a certain development action or parts of that action;
- 2) Minimizing impacts by limiting the degree, magnitude, or timing of the development action and its implementation;
- 3) Rectifying the impact by repairing, rehabilitating, or restoring the affected environment;
- 4) Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the development action and by monitoring and taking appropriate corrective measures; and
- 5) Compensating for the impact. Either monetary compensation or by replacing or providing comparable substitute resources or environments.

Deleted: means

Deleted: following the actions listed below

When making decisions to approve projects or development actions, regulating state agencies shall promote direct communication and collaboration between the applicant and interested and affected ocean users as identified by the Joint Agency Review Team (JART) under 4.2.2 to mitigate potential conflicts.

Deleted: ¶

Deleted: :¶

¶
4) P

4. Implementation Requirements

Applicants shall adhere to these se implementation requirements during all project phases related to infrastructure on, affixed to, or buried under the seafloor in the state territorial sea. This includes utility cables that transmit electrical energy from a renewable energy facility to the onshore substation, as prescribed in Part Five of the Territorial Sea Plan, Use of the Territorial Sea for the Development of Renewable Energy Facilities or Other Related Structures, Equipment or Facilities. The requirements in Part Two, Making Resource Use Decisions, sections A and B will not apply to development actions related to cables, pipelines, or other utilities or fixtures on, affixed to, or buried under the seafloor within the Oregon Territorial Sea.

Deleted: ¶

5) Require written evidence of conflict avoidance, minimization and mitigation among affected ocean users, when necessary, to ensure communication and memorialize agreements.¶

Deleted: following

Deleted: (detailed below)

Deleted: with

Deleted: Oregon

Deleted: T

Deleted: Sea

When approving development actions or projects, state agencies shall mitigate (see definition in Appendix A) conflicts or adverse effects on natural resources or other ocean users through the following measures:

Formatted: Font: Italic

4.1. Agency Communication, Coordination, and Review Process

State agencies shall apply the policies and provisions of the Oregon Ocean Resources Management Plan, Oregon Territorial Sea Plan, and Statewide Planning Goals as required to comply with State Agency Coordination Programs (OAR chapter 660, divisions 30 and 31).

In accordance with the federal Coastal Zone Management Act, federal consistency regulations (15 CFR Part 930), and ORS 196.435, DLCD will review the consistency certification together with required necessary data and information submitted by the applicant for federal authorization for development actions related to cables, pipelines, or

other utilities or fixtures on, affixed to, or buried under the seafloor within the state territorial sea to determine whether, the development action is consistent with enforceable policies of the Oregon Coastal Management Program, including the Oregon Territorial Sea Plan.

Deleted: Oregon

Deleted: ensure

DSL shall coordinate the review of applications for easements and permits in the state territorial sea in consultation with the JART, as described in the next section.

Deleted: T

Deleted: S

Deleted: Joint Agency Review Team (

Deleted:)

Deleted: below

4.2 Joint Agency Review Team

The purpose of the JART is to facilitate coordination and communication between state agencies in the early stages of project planning, and between representatives of other affected jurisdictions throughout the pre-application and application process. When an applicant requests a pre-application meeting with DSL, DSL shall convene the JART for the pre-application meeting and application meeting. If the cable or fixture is associated with a renewable energy facility, the JART convened under Part Five shall also serve as the JART for purposes of Part Four coordination, with any additional membership needed to meet the requirements below. DSL may also convene the JART as necessary for follow-up meetings in order to facilitate the coordination of state and federal agencies, and local jurisdictions, as they apply their separate regulatory, proprietary, or other authorities to the review of a proposed project within the state territorial sea.

Deleted: T

Deleted: may also be convened by DSL

4.2.1 DSL shall invite representatives from the following state agencies to the coordination meetings:

- 1) ODFW, OPRD, DEQ, DLCD, Department of Geology and Mineral Industries, and other agencies with regulatory or planning authority, or advisory expertise, applicable to the proposed project or development action and location as necessary.

Deleted: ;

The state agencies shall identify the areas affected by the proposed project or development action. Thereafter, DSL shall invite representatives from the following agencies, jurisdictions, and organizations from affected areas to the coordination meetings:

Deleted: once knowledge of the areas affected by the proposed project or development action have been identified...

- 2) Federal agencies, with regulatory or planning authority applicable to the proposed project or development action and location;
- 3) Federally recognized Coastal Tribes in Oregon;
- 4) Local jurisdictions including representatives from affected cities, counties, and their affected communities, and affected special districts as appropriate; and,
- 5) Statewide and local organizations and advisory committees, to participate in the JART application of specific standards, including but not limited to those

Deleted: as invited,

Deleted: as invited,

addressing areas important to fisheries, ecological resources, recreational and visual impacts.

4.2.2 JART Roles and Responsibilities

- 1) The JART will coordinate with DSL on the pre-application review process, and comment on the adequacy of the resource inventories and effects evaluations required under subsection 4.3 (Resource and Use Inventory and Effects Evaluation).
- 2) The JART will make recommendations to DSL on the approval of [state territorial sea easements and other authorizations](#), and to other applicable regulatory agencies on their decision to permit, license or authorize a proposed project or development action in the state territorial sea.
- 3) The JART comments and recommendations are advisory; regulating agencies who are members of the JART still operate in accordance with their own rules and statutory mandates.
- 4) DSL may acquire the services of technical experts at the reasonable expense of the applicant to assist the JART as necessary to conduct the application review.
- 5) The JART shall identify affected ocean users, local communities, and representatives that applicants must consult with in order to mitigate potential conflict.

Deleted: Territorial
Deleted: S

4.3. Resource and Use Inventory and Effects Evaluation

An applicant shall provide the regulating agencies the data and information to complete the Resource and Use Inventory and Effects Evaluation, prior to the regulating agencies making any decision. [DSL, upon consultation with the state agencies identified in 4.2.1, may waive any information or evaluation requirement of this Section 4.3 determined to be unnecessary for evaluating the coastal effects of the development action or project under Part Four.](#)

4.3.1. Purpose of the Resource and Use Inventory and Effects Evaluation

The purpose of the Resource and Use Inventory and Effects Evaluation is to provide the regulating agencies the data and information necessary to make a decision based on the project or development action's potential [coastal](#) effects. The Resource and Use Inventory and Effects Evaluation will help identify if the applicant needs to address potential [use](#) conflicts with the proposed project or development action. The regulating agency will use the evaluation to develop specific measures for environmental protection and mitigation as well as measures to protect other ocean uses.

4.3.2. Sufficiency of Resource and Use Inventory and Effects Evaluation

An applicant must provide, during the pre-application and application phases, information and data to complete the Resource and Use Inventory and Effects Evaluation that is sufficient to identify and quantify the short-term and long-term effects of the proposed project or development action in the state territorial sea on the affected natural resources and uses.

4.3.3. Use of Available Environmental Information

Regulating agencies may allow the applicant to use existing data and information from a project application to a federal agency or other authoritative sources, when complying with the requirements for the Resource and Use Inventory and Effects Evaluation.

4.3.4. Inventory Content

The applicant shall provide necessary data and information sufficient to determine the scope, likelihood, and significance of reasonably anticipated potential effects to coastal resources and uses. The Resource and Use Inventory and Effects Evaluation listed below apply to all proposed cables, pipelines, utilities or fixtures within the territorial sea for which an applicant pursues a DSL state territorial sea easement, unless the requirements are otherwise addressed in another part of the Territorial Sea Plan. However, due to the experience with and known coastal effects associated with undersea telecommunication cables installed on or under the seafloor of the state territorial sea, DSL may waive the evaluation items that are specifically identified for pipelines, utilities or fixtures.

- Deleted: T
- Deleted: S
- Deleted: are waived by DSL or
- Deleted: U
- Deleted: do not need to include those
- Deleted: ¶

4.3.4.1. Information to be provided by applicants about the proposed project or development action within the Oregon Territorial Sea:

- (a) Location (using maps, charts, descriptions, etc.);
- (b) Numbers and sizes of equipment, structures;
- (c) Methods, techniques, activities to be used;
- (d) Transportation and transmission systems needed for service and support;
- (e) Materials to be disposed of and method of disposal;
- (f) Physical and chemical properties of materials, if any, to be used or produced (e.g., chemicals used in horizontal directional drilling (HDD), materials which may be transported by a pipeline, etc.); and
- (g) Proposed time schedule.

- Deleted: e.g.
- Deleted: H
- Deleted: D
- Deleted: D

4.3.4.2. Location and description of all affected areas, including, but not limited to:

- (a) Proposed route of the cable, pipeline, or other utility; and
- (b) Onshore facilities.

- Deleted: c

Additionally for pipelines or other utilities or fixtures:

- (a) Adjacent areas that may be affected by physical changes in currents and waves caused by the project or development action;

4.3.4.3. Physical and chemical conditions including, but not limited to:

- (a) Bathymetry (bottom topography) and Shoreline Topography, including profile of water depth along the route;

Additionally for pipelines or other utilities or fixtures:

- (a) wave regime;
- (b) typical and maximum current velocities; and
- (c) dispersal characteristics.

4.3.4.4. Geologic structure, including, but not limited to:

- (a) Geophysical imaging and geotechnical investigation of full planned HDD routes across the shoreline sufficient to characterize subsurface geotechnical properties and plan HDD construction in a way that avoids drill pipe breakage, inadvertent return, surface settlement, and other complications.
- (b) Geologic hazards, such as faults or landslides;
- (c) Mineral deposits; and
- (d) Seafloor substrate type.

Deleted: horizontal directional drilling (

Deleted:)

4.3.4.5. Biological and ecological features affected by the project or development action, including, but not limited to:

- (a) All habitats along the proposed route, specifically including critical marine habitats (see Part Four, Appendix A)
- (b) Recreationally or commercially important finfish or shellfish species;
- (c) Benthic flora and fauna that may be affected by the project or development action; and
- (d) Other ecosystem elements that may be affected by the project or development action.

4.3.4.6. Cultural, economic, and social uses affected by the project or development action, including, but not limited to:

- (a) Commercial and sport fishing;
- (b) State or federally protected areas;
- (c) Scientific research;

- (d) Ports, navigation, and dredge material disposal sites;
- (e) Recreation;
- (f) Coastal community economy;
- (g) Aquaculture facilities;
- (h) Wastewater or other discharge;
- (i) Utility or pipeline corridors and transmission lines;
- (j) Military uses; and
- (k) Aesthetic resources.

4.3.4.7. Significant historical, cultural or archeological resources.

4.3.4.8. Other data that the regulating agencies determine to be necessary and appropriate to evaluate the effects of the proposed project or development action.

4.3.5. Written Evaluation

An applicant shall submit a written evaluation of the reasonably foreseeable adverse effects associated with projects or development actions within or affecting the Oregon Territorial Sea. For purposes of the evaluation, the submittal shall base the determination of “reasonably foreseeable adverse effects” on scientific evidence and how the applicant mitigated any impacts in the design and siting phases of a project or development action. The evaluation shall describe the potential short-term and long-term effects of the proposed project or development action to state coastal resources and uses of the Oregon Territorial Sea, continental shelf, [estuaries](#), onshore areas and coastal communities based on the inventory data listed above and the following considerations:

4.3.5.1. Biological and Ecological Effects: Biological and ecological effects include those on marine habitats and on the species those habitats support. The evaluation need not discuss highly speculative consequences. However, the evaluation shall discuss possible outcomes that are either likely to occur or catastrophic environmental effects of low probability. Factors to consider include, but are not limited to:

- (a) The time frames/periods over which the effects will occur;
- (b) The maintenance of ecosystem structure, biological productivity, biological diversity, and representative species assemblages;
- (c) Maintaining populations of threatened, endangered, or sensitive species;
- (d) Vulnerability of the species, population, community, or the habitat to the proposed actions; and
- (e) The probability of exposure of biological communities and habitats to adverse effects from construction, operating or decommissioning procedures, or accidents.

4.3.5.2. Current Uses: Evaluate the effects of the project or development action on current uses and the continuation of a current use of ocean resources. Factors to consider include, but are not limited to:

- (a) Local and regional economies;
- (b) Archeological and historical resources;
- (c) Transportation safety and navigation;
- (d) Recreational uses;
- (e) Fisheries;
- (f) Cultural uses; and,
- (g) Aesthetics.

Deleted: .

4.3.5.3. Natural and Other Hazards: Evaluate the potential risks to the project or development action, in terms of its vulnerability to certain hazards and the probability that those hazards may cause loss, dislodging, or drifting of infrastructure. Consider both the severity of the hazard and the level of exposure it poses to natural resources and coastal communities. Hazards to be considered shall include slope failures and subsurface landslides, faulting, tsunamis, variable or irregular bottom topography, weather related, or due to human cause. Additionally, evaluate potential for horizontal directional drilling complications that could affect natural resources and coastal communities and describe plans to minimize these hazards based on site-specific subsurface geotechnical characteristics.

Deleted: would

4.3.5.4. Cumulative Effects: Evaluate the cumulative effects of a project or development action, including the onshore component, in conjunction with effects of any past projects, other current projects, and probable future projects. The evaluation shall analyze the biological, ecological, physical, cultural, and socioeconomic effects of the proposed project or development action and other projects along the Oregon coast, while also taking into account the effects of existing and future human activities and the regional effects of global climate change.

In conducting the cumulative effects analysis, the applicant shall focus on the specific resources and uses, as inventoried under section 4.3.4 that may be affected by the incremental effects of the proposed project or development action and other projects in the same geographic area. The evaluation shall include but not be limited to consideration of whether:

Deleted: detailed

- i. the resource and uses are especially vulnerable to incremental effects;
- ii. the proposed project or development action is one of several similar projects in the same geographic area;
- iii. other developments in the area have similar effects on the resources and uses;

- iv. these effects have been historically significant for the resource and uses; and
- v. other analyses in the area have identified a cumulative effects concern.

4.4 Routing and Landing

Locations for new infrastructure within the state territorial sea shall preserve access to ocean fisheries to the extent practicable, prevent or avoid conflicts with other uses, protect marine habitats, and minimize adverse effects on other natural resources of the seafloor or ocean shore. DSL shall consider the benefit of implementing corridors for infrastructure crossing the territorial sea while maintaining adequate distance for servicing of infrastructure and shall determine when the state territorial sea has reached carrying capacity for new easements. DSL may require new rights of way to be located as close to existing rights of way as possible or with sufficient capacity to enable future expansion within the approved right of way. DSL shall not permit easements through marine reserves, marine protected areas, rocky habitats designated as a Marine Research Area, Marine Garden, or Marine Conservation Area under Part Three, and shall avoid all rocky habitat areas within the state territorial sea.

4.5 Installation

4.5.1 Cable Burial.

4.5.1.1 In state waters:

All undersea cables crossing the seafloor seaward of Extreme Low Tide (which is the seaward boundary of the Ocean Shore Recreation Area under ORS 390.605(2)) shall be buried so as to achieve continuous burial unless DSL finds that the adverse effects of burial to coastal uses and resources exceed the adverse coastal effects of not burying the cable, provided that the applicant has avoided, minimized, mitigated, or any combination thereof the adverse effects of not burying the cable to the maximum extent practicable.

4.5.1.2 DSL may base findings for 4.5.1.1 on written evidence of communication between an applicant and affected ocean users.

4.5.1.3 The applicant shall verify burial to DSL by written assurance. The state may require photographic or other evidence of burial from the applicant.

4.6 Maintenance

DSL shall require that cables, pipelines, utilities, or fixtures shall be inspected as part of installation. Inspections after installation shall occur as otherwise required by a regulatory agency, and after any major geologic event, such as subduction- zone earthquake, to confirm continued burial and or infrastructure integrity.

4.7 Decommission and Recovery

- Deleted:** N
- Deleted:** may be required
- Deleted:**
- Deleted:** TSP
- Deleted:** or affixed to state lands of the territorial sea lying
- Deleted:** Water
- Deleted:** ensure
- Deleted:** the approving state agencies
- Deleted:** make findings
- Deleted:** would do more
- Deleted:** damage than
- Deleted:** or burial cannot be practicably achieved without significant impacts to the marine environment. The state shall require, as necessary, formal written agreements between affected ocean users as evidence that potential adverse effects of not burying the cable have been mitigated to the maximum extent practicable.
- Deleted:**
- Deleted: In federal waters:** Burial of cables crossing or affixed to the seabed of the outer continental shelf (beneath federal waters) to a depth of 1500 meters, or to a latitude/longitude agreed to by the approving state agencies, off Oregon will be deemed consistent with this state policy. When a federal agency does not require burial in waters to this depth, the state may concur that the decision is consistent with state policy if the state agrees that adverse effects of not burying the cable, pipeline, other utility or fixture, have been avoided, minimized, and or mitigated to the maximum extent practicable. The state shall require, as necessary, formal written agreements between affected ocean users as evidence that potential adverse effects of not burying the cable have been mitigated to the maximum extent practicable....
- Deleted:** the easement-granting agency
- Deleted:** ensure

An owner or operator should decommission infrastructure and DSL may require the owner or operator to remove the infrastructure from the seabed at the end of its useful or operational/design life to avoid over time infrastructure exposure and continue sustainable activity in terms of the use of the state waters as well as maintain the long-term protection of marine ecosystems, preservation of their ecological functions, and economic and social services.

- Deleted: I
- Deleted: should be decommissioned
- Deleted: be
- Deleted: d
- Deleted: be
- Deleted: d by
- Deleted: authorized user
- Deleted: their
- Deleted: the Department of State Lands

4.7.1 Undersea Cables

The owner or operator of the undersea cable shall submit to DSL for approval a decommissioning plan and follow the process for decommissioning and recovery as follows:

1) At least 180 days before decommissioning an undersea cable, the owner or operator of the undersea cable shall submit for DSL approval a decommissioning plan that includes:

Deleted: to the Department of State Lands

- a) A cost estimate, prepared by a person qualified by experience and knowledge to prepare the estimate, for decommissioning the cable and restoring the area authorized by the easement to a natural condition;
- b) A detailed description of and proposed schedule for the decommissioning and restoration work, including any corrective action that may be required under the easement;
- c) A detailed description of segments of bore pipe and undersea cable proposed to be left in place to avoid or minimize impacts to aquatic resources; and
- d) A proposed form of financial assurance in an amount equal to the cost estimate under paragraph (a) of this subsection.
- e) If an owner or operator proposes to leave any portion of a cable in place, the owner or operator shall submit a written assessment of the environmental impacts and coastal effects that quantifies the level of damage to the environment that removal of the cable could cause.

2) Within 30 days of receiving a decommissioning plan, DSL may approve the plan, request revisions to the plan, or require additional information. If, after receiving revisions to the decommissioning plan or additional information, DSL rejects the plan, the owner or operator of the undersea cable must apply to DSL within 90 days for an easement for the encroachment created by the undersea cable.

- Deleted: under subsection (1) of this section
- Deleted: the Department of State Lands
- Deleted: shall
- Deleted: or
- Deleted: the department
- Deleted: submit to the department an application
- Deleted: ¶

3) The owner or operator of an undersea cable may not begin decommissioning and restoration work unless:

- a) DSL has approved a decommissioning plan;
- b) The owner or operator has acquired the financial assurance required under subsection (1); and

Deleted: of this section

- c) The owner or operator has provided DSL notice that the work will begin at least 60 days prior to beginning the work.
- 4) An owner or operator may satisfy the financial assurance requirements by furnishing DSL a financial assurance instrument that is:
 - a) A surety bond, cash deposit or certificate of deposit; and
 - b) In the name of the State of Oregon.

Deleted: to the Department of State Lands

Deleted: T

Deleted: established by subsection (1) of this section may be satisfied

There may be cases where the removal of an undersea cable is more environmentally damaging than leaving the cable in situ. In such cases, DSL shall require an environmental impact assessment from the authorized user to demonstrate the level of damage to the environment caused by cable removal and may allow the cable to remain buried in the seabed.

5 Communication and Cooperative Mechanisms

DSL may consider written agreements between the applicant and fishers or other users as evidence of communication and coordination when necessary to provide evidence that an applicant has mitigated use conflict to the maximum extent practicable. Such agreements or other documentation of coordination may coordinate work, determine preferred routing, identify routes, respond to emergencies, provide for mitigation of adverse effects, or specify procedures for on-going communication. Written documentation shall specify how fishers or other users and the applicant will resolve disputes over lost fishing gear, damage to seafloor utilities, damage to natural resources or liability for such actions.

Deleted: W

Deleted: shall be required by the easement-granting agency

Deleted: has been mitigated

Deleted: agreements,

Deleted: when required,

6 Territorial Sea Plan Review

The Ocean Policy Advisory Council (OPAC) shall review the Oregon Territorial Sea Plan Part Four no longer than seven years after it has been adopted by LCDC. OPAC may, at any time, choose to initiate an amendment of the plan through the process described under Part One, section F.2, Changing the Plan and ORS 196.443(1)(a).

Deleted: shall be subject to review by the Ocean Policy Advisory Council (OPAC)

Part Four Appendix A: Definitions and Terms

The following definitions shall apply to Part Four, unless the context requires otherwise:

Affix(ed): To attach to the seafloor in a permanent way.

Archaeological Resources: Those districts, sites, buildings, structures, and artifacts which possess material evidence of human life and culture of the prehistoric and historic past. (See Historical Resources definition.)

Formatted: Font: Italic

Areas important to fisheries: (Goal 19)

- a.) areas of high catch (e.g., high total pounds landed and high value of landed catch);
- b.) areas where highly valued fish are caught even if in low abundance or by few fishers;
- c.) areas that are important on a seasonal basis;
- d.) areas important to commercial or recreational fishing activities, including those of individual ports or particular fleets; or
- e.) habitat areas that support food or prey species important to commercially and recreationally caught fish and shellfish species.

Formatted: Font: Italic

Applicant: The person or party responsible for acquiring a state permit, license, lease or other authorization for the evaluation, siting, routing, placement, operation, or removal of a cable, pipeline, utility or fixture placed on, affixed to, or buried under the seafloor in the state territorial sea will be referred to as “the applicant”.

Avoid: To prevent or eliminate an effect from a project or development action.

Benthic: Living on or within the bottom sediments in water bodies.

Burial: To place into the seabed below the local mean surface of the ocean floor at the time of burial.

Cable(s): includes a cable used to conduct electricity or light that is placed on, affixed to, or buried under state-owned submerged or submersible lands within the territorial sea and any facilities within the territorial sea associated with the cable.

Carrying Capacity: Level of use which can be accommodated and continued without irreversible impairment of natural resources productivity, the ecosystem and the quality of air, land, and water resources.

Coastal Zone: The area lying between the Washington border on the north to the California border on the south, bounded on the west by the extent of the state's jurisdiction, and in the east by the crest of the coastal mountain range, with the exception of: (a) The Umpqua River basin, where the coastal zone shall extend to Scottsburg; (b) The Rogue River basin, where the coastal zone shall extend to Agness; (c) The Columbia River basin, where the coastal zone shall extend to the downstream end of Puget Island. (*Formerly* ORS 191.110)

Continental Shelf: The area seaward from the ocean shore to the distance when the ocean depth is 200 meters, or where the ocean floor slopes more steeply to the deep ocean floor. The area beyond the state's jurisdiction is the OUTER Continental Shelf.

Critical infrastructure: Systems and assets, whether physical or virtual, so vital to the United States that the incapacity or destruction of such systems and assets would have a debilitating impact on security, national economic security, national public health or safety, or any combination of those matters.

Critical Marine Habitat: means one or more of the following areas designated within the territorial sea:

- a.) as “critical habitat” in accordance with federal laws governing threatened and endangered species; or
- b.) “rocky habitat conservation areas” designated under Part Three; or
- c.) areas necessary for the survival of animal or plant species listed by state or federal laws as “threatened”, “endangered”, or “sensitive”; or
- d.) for scientific research or education within the territorial sea; or,
- e.) as essential fish habitat; or
- f.) as marine reserves or marine protected areas.

Develop: To bring about growth or availability; to construct or alter a structure, to conduct a mining operation, to make a physical change in the use or appearance of

Formatted: Font: Italic

Deleted: Conserve: To manage in a manner that the integrity, diversity, stability, ¶ complexity, and the productivity of marine biological communities and their habitats are ¶ maintained or, where necessary, restored. Accommodating the needs for economic ¶ development while avoiding wasteful uses and maintaining future availability.¶
Conservation: a principle of action guiding Oregon's ocean-resources management, which ¶ seeks to protect the integrity of marine ecosystems while giving priority to the protection and ¶ wise use of renewable resources over nonrenewable; as used in the Oregon Ocean Resources ¶ Management Plan, the act of conservation means ‘that the integrity, diversity, stability, ¶ complexity, and the productivity of marine biological communities and their habitats are ¶ maintained or, where necessary, restored’ and ‘accommodate(ing) the needs for economic ¶ development while avoiding wasteful uses and maintaining future availability.’ ¶

land, to divide land into parcels, or to create or terminate rights to access.

Development: The act, process or result of developing.

Development Action: Any activity related to infrastructure on, affixed to, or buried under the seafloor within or affecting the state territorial sea which is subject to regulation by local, state, or federal agencies that could result in adverse impacts to natural resources or conflict with other ocean users. Development actions also include, but are not limited to, subsequent re-permitting for activities with new impacts or continued impacts that have not been mitigated consistent with current standards.

Diversity: The variety of natural, environmental, economic, and social resources, values, benefits, and activities.

Ecosystem: the living and non-living components of the environment which interact or function together, including plant and animal organisms, the physical environment, and the energy systems in which they exist. All the components of an ecosystem are interrelated. (Oregon Statewide Planning Goals)

Fixture(s) includes any infrastructure affixed to or permanently placed on the seafloor, not otherwise defined in this glossary, including but not limited to scientific and research devices, observation devices, or other infrastructure requiring a Territorial Sea Easement but not otherwise governed by another section of the [Territorial Sea Plan](#). [\(Perhaps exclude Part Five anchor infrastructure here\)](#)

Geologic: Relating to the occurrence and properties of earth. Geologic hazards include faults, land and mudslides, and earthquakes.

Habitat: the environment in which an organism, species, or community lives. Just as humans live in houses, within neighborhoods, within a town or geographic area, within a certain region, and so on, marine organisms live in habitats which may be referred to at different scales. (see also "critical marine habitat", "important marine habitat")

Historical Resources: Those districts, sites, buildings, structures, and artifacts which have a relationship to events or conditions of the human past. (See Archaeological Resources definition.)

Impact: is the severity, intensity, or duration of the adverse effect.

Infrastructure: The physical assets that provide the foundation or basic framework for a utility (telecommunications, energy, material transfer, etc) on, affixed to, or buried under the seafloor within or affecting the state territorial sea. Examples include, but are not limited to, telecommunications cables, power transmission cables, pipelines, and fixtures.

Integrity: The quality or state of being complete and functionally unimpaired; the wholeness or entirety of a body or system, including its parts, materials, and processes. The integrity of an ecosystem emphasizes the interrelatedness of all parts and the unity of its whole.

LCDC: The Land Conservation and Development Commission of the State of Oregon.

Deleted: Ensure: Guarantee; make sure or certain something will happen.¶

Deleted: Fill: The placement by man of sand, sediment, or other material, usually in submerged ¶ lands or wetlands, to create new uplands or raise the elevation of land.¶

Deleted: Territorial

Formatted: Font: Italic

Deleted: Important marine habitat: (Goal 19) are areas and associated biologic communities that are:¶
a.) important to the biological viability of commercially or recreationally caught species or that ¶ support important food or prey species for commercially or recreationally caught species;¶
b.) needed to assure the survival of threatened or endangered species;¶
c.) ecologically significant to maintaining ecosystem structure, biological productivity, and ¶ biological diversity;¶
d.) essential to the life-history or behaviors of marine organisms;¶
e.) especially vulnerable because of size, composition, or location in relation to chemical or ¶ other pollutants, noise, physical disturbance, alteration, or harvest; or¶
f.) unique or of limited range within the state. ¶ Important marine habitats must be specifically considered when an information and effects ¶ assessment is conducted pursuant to Goal 19: including but not limited to: habitat necessary for ¶ the survival and conservation of Oregon renewable resources (e.g. areas for spawning, rearing, ¶ or feeding), kelp and other algae beds, seagrass beds, seafloor gravel beds, rock reef areas and areas of important fish, shellfish and invertebrate concentration (Goal 19)....

Deleted: Intertidal: Between the levels of mean lower low tide (MLLT) and mean higher high ¶ tide (MHHT).¶

The members appointed by the Governor and confirmed by the Oregon Senate in accordance with the requirements of ORS 197.030.

Maintain: Support, keep, and continue in an existing state or condition without decline.

Minimize: to reduce or limit the effect to the maximum extent practicable.

Mitigate: taking one or more of the following actions listed in order of priority:

- (a) Avoiding the impact altogether by not taking a certain development action or parts of that action;
- (b) Minimizing impacts by limiting the degree or magnitude of the development action and its implementation;
- (c) Rectifying the impact by repairing, rehabilitating, or restoring the affected environment;
- (d) Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the development action and by monitoring and taking appropriate corrective measures;
- (e) Compensating for the impact by replacing or providing comparable substitute resources or environments.

Natural Resources: Air, land and water and the elements thereof which are valued for their existing and potential usefulness to man.

Owner or operator: [\[need definition\]](#)

Pipeline(s) includes any line of pipe, with or without equipped pumps, valves, and other control devices, used to move liquids, gasses, and/or slurries.

Practicable: Reasonably capable of being put into practice or of being done or accomplished.

Preserve: To save from change or loss and reserve for a special purpose.

Project: the evaluation, siting, routing, placement, operation, decommission, or removal of infrastructure on, affixed to, or buried under the seafloor in the state territorial sea

Protect: Save or shield from loss, destruction, or injury or for future intended use.

Provide: Prepare, plan for, and supply what is needed.

Quality: The degree of excellence or relative goodness.

Recreation: Any experience voluntarily engaged in largely during leisure (discretionary time) from which the individual derives satisfaction.

Coastal Recreation occurs in offshore ocean waters, estuaries, and streams, along beaches and bluffs, and in adjacent shorelands. It includes a variety of activities, from swimming, scuba diving, [board sports](#), boating, fishing, hunting, and use of dune buggies, shell collecting, painting, wildlife observation, and sightseeing, to coastal resorts and water-oriented restaurants.

Low-Intensity Recreation does not require developed facilities and can be accommodated without change to the area or resource. For example, boating, hunting, hiking, wildlife photography, and beach or shore activities can be low intensity recreation.

High-Intensity Recreation uses specially built facilities, or occurs in such density or form that it requires or results in a modification of the area or resource. Campgrounds, golf courses, public beaches, and marinas are examples of high intensity recreation.

Regulating agency or regulating agencies: State agencies making decisions to authorize [projects](#) or development actions on, affixed to, or buried under the seafloor in the state territorial sea.

Restore: Revitalizing, returning, or replacing original attributes and amenities, such as natural biological productivity, aesthetic and cultural resources, which have been diminished or lost by past alterations, activities, or catastrophic events. For the purposes of Part Four of the Territorial Sea Plan restoration means to revitalize or reestablish functional characteristics and processes of the seafloor diminished or lost by past alterations, activities, or catastrophic events.

Active Restoration: involves the use of specific positive remedial actions, such as removing fills and infrastructure (Cables, pipelines, other utilities or fixtures) to return a site to functional and sustainable use.

Passive Restoration: Allowing natural processes, sequences, and timing to occur in an ecosystem to return a site to functional and sustainable use.

Seafloor: The solid surface underlying the ocean. Specifically, within [Part Four](#) of the Oregon Territorial Sea [Plan](#), the submerged or submersible lands within the boundaries of the [state territorial sea](#).

Shoreline: The boundary line between a body of water and the land, measured on tidal waters at mean higher high water, and on non-tidal waterways at the ordinary highwater mark.

Substrate: The medium upon which an organism lives and grows. The surface of the land or bottom of a water body.

Territorial Sea: The ocean and seafloor area from mean low water seaward three nautical miles.

User: an individual, group or entity that makes use of the territorial sea and adjacent rocky intertidal, whether it is for traditional, recreational, educational, commercial or other purposes.

Utility/utilities includes any infrastructure affixed to or placed on the seafloor, not otherwise defined in this glossary, which provide the public with an essential good or service (heat, gas, electricity, water, sewage treatment, data, etc).

Deleted: part

Deleted: f

Deleted: plan

Deleted: Oregon

Deleted: T

Deleted: S